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TSCA 8(E) SUBSTANTIAL RISK SUPPLEMENTAL INFORMATION: Ammonium Perfluorooctanoate CAS#: 3825-26-1

Dear Sir:

Enclosed is the final report of the study described in the TSCA 8(e) notice dated February 28, 2002, submitted by 3M on Ammonium Perfluorooctanoate CAS# 3825-26-1:

Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study in rats, by Argus Research Laboratories.

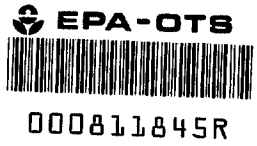
For further information, please contact Dr. John Butenhoff, 651-733-1962.

Sincerely,

Georjean L. Adams

Georjean L. Adams
Manager, Corporate Product Responsibility

Enclosure



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Study Title

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS

SPONSOR'S STUDY NUMBER: T-6889.6

Data Requirement

U.S. Environmental Protection Agency (1998). Health Effects Test Guidelines; Reproduction and Fertility Effects. Office of Prevention, Pesticides and Toxic Substances (OPPTS) 870.3800, August, 1998.

U.S. Environmental Protection Agency (1997). Toxic Substances Control Act (TSCA) Test Guidelines; Final Rule. Reproduction and Fertility Effects, 799.9380 (cross-referenced to OPPTS 870.3800). *Federal Register*, August 15, 1997.

Author

Raymond G. York, Ph.D., DABT
(Study Director)

Study Completed On

26 March, 2002
(Final Report)

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Performing Laboratory

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Laboratory Project ID

Argus Research Protocol Number: 418-020

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# GOOD LABORATORY PRACTICE STATEMENT

This study was conducted according to U.S. Environmental Protection Agency (EPA FIFRA/TSCA) "Good Laboratory Practice Standards; Final Rule" (40 CFR Part 160/792) and the Organisation for Economic Co-operation and Development (OECD) "Principles of Good Laboratory Practice", with the exceptions in bulleted list below.

Exceptions to GLP compliance:

The Argus Study protocol 418-020, was approved by the Sponsor and signed by the Argus Study Director prior to the initiation of any work performed for this study. The Sponsor's analytical group developed a separate protocol [3M FACT-TCX-164] and assigned a Study Director for the work conducted at their site and viewed the analytical portion as a separate study. The Sponsor issued a report for this segment of the study (presented in Appendix I of this report) which addresses the following areas of non-compliance:

- The analytical protocol identified a second Study Director rather than a Principal Investigator.
- The dose confirmation and stability analyses were conducted by the Sponsor prior to protocol 3M FACT-TCX-164 being approved and issued.
- The purity and stability of the surrogate THPFOS standard is not included in the full study report, as it is not known at this time.

Submitter:

Study Director: 26 MAR 2002

Raymond G. York, Ph.D., DABT — Date
Argus Research

Sponsor: 2 April, 2002

3M Corporate Toxicology — Date

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PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS

SPONSOR'S STUDY NUMBER: T-6889.6

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TITLE: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS

ARGUS RESEARCH
PROTOCOL NUMBER: 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

# I. SUMMARY AND CONCLUSION

## A. Methods[a]

Crl:CD®(SD)IGS BR VAF/Plus® rats were used. The P generation consisted of 150 rats per sex assigned to five dosage groups (Groups I through V), 30 rats per sex per dosage group. Two F1 generation pups per sex per litter per group (60 male and 60 female pups per group) were selected for continued evaluation, resulting in 300 rats per sex assigned to five dosage groups (Groups I through V). Solutions of ammonium perfluorooctanoate (APFO) in reverse osmosis membrane processed deionized water were administered to the P generation male and female rats, beginning at approximately six weeks of age and continuing until the day before sacrifice, at dosages of 0, 1, 3, 10 and 30 mg/kg/day. The dosage volume was 5 mL/kg, adjusted daily on the basis of the most recently recorded body weight. The F1 generation rats were given the same dosage level of the test substance as their respective P generation sires and dams. Dosages were given once daily, beginning at weaning and continuing until the day before sacrifice. Dosages were adjusted at least weekly for body weight changes and given at approximately the same time each day. F1 and F2 generation pups may have been exposed to the test substance during the maternal gestation (*in utero* exposure) or via maternal milk during the postpartum period.

The P and F1 generation rats were observed for viability at least twice each day. The rats were also examined for clinical observations of effects of the test substance, abortions, premature deliveries and deaths before dosage and 60 ± 10 minutes after dosage during the dosage period. Body weights of the P generation male rats were recorded weekly during the dosage periods and on the day of sacrifice. Body weights of the F1 generation male rats were recorded weekly during the postweaning period and on the day of sacrifice. Body weights of the P generation female rats were recorded weekly during the

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a. Detailed descriptions of all procedures used in the conduct of this study are provided in the appropriate sections of this report and in APPENDIX F (PROTOCOL AND AMENDMENTS).

precohabitation and cohabitation periods and on days of gestation (DGs) 0, 7, 10, 14, 18, 21 and 25 (if necessary) and on DLs 1, 5, 8, 11, 15 and 22 (terminal body weight). Body weights of the F1 generation female rats were recorded weekly during the postweaning period to cohabitation, and on DGs 0, 7, 10, 14, 18, 21 and 25 (if necessary) and on DLs 1, 5, 8, 11, 15 and 22. Feed consumption values for the P and F1 generation male rats were recorded weekly during the dosage period. Feed consumption values for the P generation female rats were recorded weekly during the precohabitation period, on DGs 0, 7, 10, 14, 18, 21 and 25 and on DLs 1, 5, 8, 11 and 15. Feed consumption values for the F1 generation female rats were recorded weekly during the postweaning period to cohabitation, on DGs 0, 7, 10, 14, 18, 21 and 25 and on DLs 1, 5, 8, 11 and 15. During cohabitation, when two rats occupied the same cage with one feed jar, individual values were not recorded or tabulated. Because pups begin to consume maternal feed on or about DL 15, feed consumption values were not tabulated after DL 15.

F1 generation female rats were examined for age of vaginal patency, beginning on day 28 postpartum. F1 generation male rats were evaluated for age of preputial separation, beginning on day 39 postpartum. Body weights were recorded when rats reached sexual maturation.

Estrous cycling was evaluated daily by examination of vaginal cytology beginning 21 days before the scheduled cohabitation period and continuing until spermatozoa were observed in a smear of the vaginal contents and/or a copulatory plug was observed *in situ* during the cohabitation period. On the day of scheduled sacrifice, an examination of vaginal cytology was performed to determine the stage of estrous cycle. Within each dosage group, consecutive order was use to assign P generation rats to cohabitation, one male rat per female rat. A table of random units was used to assign F1 generation rats to cohabitation, one male rat per female rat. If random assignment to cohabitation resulted in the pairing of F1 generation siblings, an alternate assignment was made. The cohabitation period consisted of a maximum of 14 days.

The P and F1 generation female rats were evaluated for duration of gestation, fertility index, gestation index, number and sex of offspring per litter, number of implantation sites, general condition of the dam and litter during the postpartum period, litter size and viability, viability index, lactation index and percent survival and sex ratio. Maternal behavior of the dams was recorded on DLs 1, 5, 8, 15 and 22.

Litters were examined after delivery to identify the number and sex of pups, stillbirths, liver births and gross alterations. Each litter was evaluated for viability at least twice each day of the 22-day postpartum period. The F1 and F2 generation pups in each litter were counted once daily. Physical signs were recorded for the pups each day. Pup body weights were recorded on DLs 1, 5, 8, 15 and 22. On DL 12 all F1 generation male pups were examined for the presence of nipples. Anogenital distance was measured for all live F2 generation pups on DLs 1 and 22.

P and F1generation rats were sacrificed necropsied and examined for gross lesions. Gross lesions were examined histologically. Tissue trimming and histopathology was performed under the supervision of or by a Board Certified Veterinary Pathologist. At

scheduled sacrifice, after completion of the cohabitation period (male rats) and on DL 22 (female rats), blood samples were collected and centrifuged. The resulting serum was shipped to the Sponsor for analysis. The liver was excised, weighed, and a sample section shipped to the Sponsor for analysis.

The following organs were individually weighed and organ-to-body weight and organ-to-brain weight ratios were calculated: brain, kidneys, spleen, ovaries, testes, thymus, liver, adrenal glands, pituitary, uterus with oviducts and cervix, left epididymis (whole and cauda), right epididymis, prostate and seminal vesicles (with coagulating glands and with and without fluid). The following tissues were retained for possible histological evaluation: pituitary, adrenal glands, vagina, uterus with oviducts, cervix and ovaries, right testis, seminal vesicles (with coagulating gland), right epididymis and prostate. Histological examination was performed on tissues from 10 randomly selected rats per sex from the control and high dosage groups. All gross lesions were examined histologically. Reproductive organs of the low and intermediate dosage group rats suspected of reduced fertility were subjected to histological evaluation.

Male rats were sacrificed after completion of the cohabitation period. A portion of the left cauda epididymis was used for evaluation of cauda epididymal sperm concentration and motility. The remaining left cauda epididymis was used to manually evaluate sperm morphology and to prepare a homogenate to determine sperm concentration. The left testis was used for evaluation of testicular spermatid concentration.

Female rats were sacrificed on day of day 22 of lactation (DL 22). The number and distribution of implantation sites were recorded. Pups that died before examination of the litter for pup viability on DL 1 were evaluated for vital status at birth. Pups found dead on DLs 2 to 22 were examined for gross lesions and for the cause of death.

All pups culled on DL 22 were sacrificed. Three pups per sex per litter were examined for gross lesions. Necropsy included a single cross-section of the head at the level of the frontal-parietal suture and examination of the cross-sectioned brain for apparent hydrocephaly. The brain, spleen and thymus from one of the three selected pups per sex per litter were weighed and the brain, spleen and thymus from the three selected pups per sex per litter were retained for possible histological evaluation. All remaining pups were discarded without further examination.

All F1 generation rats were weaned on DL 22 based on observed growth and viability of these pups. At weaning, two F1 generation pups per sex per litter per group (60 male and 60 female pups per group), resulting in a total of 600 rats (300 rats per sex) were chosen for continued evaluation. At least two male pups and two female pups per litter, when possible, were selected. F1 generation pups not selected for continued observation for sexual maturation were sacrificed and a limited necropsy was performed. The thoracic, abdominal and pelvic cavities were examined for gross lesions. Gross lesions were preserved; all other tissues and the carcasses were discarded.

## B. Results

### B.1. P Generation Male Rats

One P generation male rat in the 30 mg/kg/day dosage group was moribund sacrificed on day 45 of the study (DS 45). The moribund condition was considered possibly related to the test substance because it occurred in the highest dosage group and this rat exhibited adverse clinical observations considered related to the test substance.

Statistically significant increases in the incidences of dehydration, urine-stained abdominal fur and ungroomed coat occurred in the 30 mg/kg/day dosage group. The number of male rats with chromorhinorrhea was increased in the 3 mg/kg/day and higher dosage groups; however these increases were not statistically significant; all other clinical observations were considered unrelated to the test substance.

Body weight gains for the entire dosage period before cohabitation were significantly reduced in the 3, 10 and 30 mg/kg/day dosage groups. As a result, body weight gains for the entire dosage period were significantly reduced in the 3, 10 and 30 mg/kg/day dosage groups. Body weights were significantly reduced in the 30 mg/kg/day dosage group on DS 8 through termination, in the 10 mg/kg/day dosage group on DS 15 through termination and in the 3 mg/kg/day dosage group on DS 50 through termination.

Absolute feed consumption values were significantly reduced in the 30 mg/kg/day dosage group for the entire dosage period before cohabitation and the entire study period and at most tabulated intervals within these periods. Relative feed consumption values were significantly increased in the 3, 10 and 30 mg/kg/day dosage groups for the entire dosage period before cohabitation and the entire study.

All mating and fertility parameters were unaffected by dosages of the test substance as high as 30 mg/kg/day.

All necropsy observations were considered unrelated to the test substance. Terminal body weights were significantly reduced in the 3, 10 and 30 mg/kg/day dosage groups. Absolute weights of the epididymides, left cauda epididymis, seminal vesicles, prostate, pituitary, adrenals, spleen and thymus were significantly reduced in the 30 mg/kg/day dosage group. The absolute weight of the liver was significantly increased in the 1, 3, 10 and 30 mg/kg/day dosage groups. Weights of the kidneys were significantly increased in the 1, 3 and 10 mg/kg/day dosage groups, while these weights were significantly reduced in the 30 mg/kg/day dosage group.

The ratios of the organ weight to the terminal body weight were significantly increased in the 10 and 30 mg/kg/day dosage groups for the epididymides, left cauda epididymis (30 mg/kg/day only), testes and seminal vesicles. The ratio of the brain weight to the terminal body weight was significantly increased in the 3, 10 and 30 mg/kg/day dosage groups. The ratios of the liver and left and right kidney weights to the terminal body weight were significantly increased in the 1, 3, 10 and 30 mg/kg/day dosage groups. The

ratio of the left adrenal weight to the terminal body weight was significantly increased in the 30 mg/kg/day dosage group.

Ratios of the organ weight to the brain weight were significantly reduced in the 30 mg/kg/day dosage group for the epididymides, cauda epididymis, prostate, pituitary, spleen and thymus. The ratios of the liver weight to the brain weight were significantly increased in the 1, 3, 10 and 30 mg/kg/day dosage groups. The ratios of the kidneys weights to the brain weight were significantly increased in the 1, 3 and 10 mg/kg/day dosage groups while the ratio of the left kidney weight to the brain weight was significantly reduced in the 30 mg/kg/day dosage group.

All sperm parameters evaluated were unaffected by dosages of the test substance as high as 30 mg/kg/day.

No treatment-related microscopic changes were observed in the reproductive organs of any of the male rats in the P generation. A treatment-related microscopic change was observed in the adrenal glands of the P generation male rats of the 10 and 30 mg/kg/day dosage groups. This change was characterized by hypertrophy and vacuolation of the cells of the zona glomerulosa of the adrenal cortex. All other microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment.

### B.2. P Generation Female Rats

There were no P generation female rat deaths attributed to the test substance. All clinical observations during the precohabitation, gestation and lactation periods were considered unrelated to the test substance.

Body weights and body weight gains during the precohabitation, gestation and lactation periods were unaffected by dosages of the test substance as high as 30 mg/kg/day. Absolute and relative feed consumption values during the precohabitation, gestation and lactation periods were unaffected by dosages of the test substance as high as 30 mg/kg/day.

The average numbers of estrous stages per 21 days were comparable among the five dosage groups and did not significantly differ. Evaluation of estrous stages at sacrifice did not reveal any differences among the five dosage groups. All mating and fertility parameters were unaffected by dosages of the test substance as high as 30 mg/kg/day.

All necropsy observations were considered unrelated to the test substance. Terminal body weights of the P generation female rats were comparable among the five dosage groups and did not significantly differ. The weights of the kidneys, the ratios of this organ weight to the terminal body weight and the ratio of the left kidney weight to the brain weight were significantly reduced in the 30 mg/kg/day dosage group.

Pregnancy occurred in 27 to 29 rats in each dosage group. Natural delivery observations were unaffected by dosages of the test substance as high as 30 mg/kg/day.

No clinical or necropsy observations were attributable to dosages of the test substance as high as 30 mg/kg/day. Terminal body weights of the F1 generation pups were comparable among the five dosage groups and did not significantly differ. The weights of the brain, spleen and thymus and the ratios of these organ weights to the terminal body weight and brain weight were unaffected by dosages of the test substance as high as 30 mg/kg/day.

No treatment-related microscopic changes were observed in the reproductive organs of any of the female rats in the P generation. All microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment.

### B.3. F1 Generation Male Rats

Three, three, three, two and seven F1 generation male rats in the 0, 1, 3, 10 and 30 mg/kg/day dosage groups were moribund sacrificed or found dead. The increased incidence of mortality in the 30 mg/kg/day dosage group was considered treatment-related. Most deaths appeared to be related to a failure of the pups to thrive within a few days of weaning. This failure to thrive is common in this strain of rat when the weaning rats are small for weaning.

The incidences of annular constriction of the tail of male F1 generation rats were increased in the 1, 3, 10 and 30 mg/kg/day dosage groups, reaching statistical significance in the 1, 10 and 30 mg/kg/day dosage groups. The number of male rats observed to be emaciated was significantly increased in the 10 and 30 mg/kg/day dosage groups, and the numbers of male rats with urine-stained abdominal fur, decreased motor activity and abdominal distention were significantly increased in the 30 mg/kg/day dosage group. The incidence of the observation of cold to touch was increased, albeit not significantly, in the 30 mg/kg/day dosage group.

Body weights and body weight gains were reduced in a dosage-dependent pattern for the F1 generation male rats before and after the cohabitation period at the 1, 3, 10 and/or 30 mg/kg/day dosages of the test substance, as compared to the control group.

Absolute feed consumption values for the F1 generation male rats were significantly reduced and relative feed consumption values were significantly increased for the entire precohabitation period by dosages of APFO of 10 and 30 mg/kg/day.

Preputial separation of F1 generation male rats was slightly delayed in the 30 mg/kg/day dosage group and above the Testing Facility historical control average and range for this parameter (see APPENDIX L). When this observation in the 30 mg/kg/day dosage group was covaried with the significantly reduced ($p \leq 0.01$) body weight at time of acquisition to determine if the significantly reduced body weights were a factor, the difference was still significant, but at the $p \leq 0.05$ level. When this observation in the 30 mg/kg/day dosage group was covaried with gestational age (calculated from the day of mating to the day of acquisition) at time of acquisition to determine if this group was younger and more immature than the control group, there was no significant difference in sexual maturation.

Dosages of the test substance as high as 30 mg/kg/day did not affect any mating and fertility parameters evaluated in the F1 generation male rats, of the male rats assigned to cohabitation, 93.3%, 96.6%, 93.3%, 93.3% and 96.7% impregnated the cohort female rat in the five dosage groups, respectively.

Tan areas occurred in the left lateral and/or median lobes of the liver in 6, 10 and 9 male rats in the 3, 10 and 30 mg/kg/day dosage groups, respectively. One of these rats in the 30 mg/kg/day dosage group also had a small spleen. One 30 mg/kg/day dosage group rat had an enlarged liver. Moderate to slight dilation of the pelvis of one or both kidneys occurred in 4 and 1 rats in the 10 and 30 mg/kg/day dosage groups, respectively. A tan area in the parenchyma of the spleen occurred in one 10 mg/kg/day dosage group rat.

Terminal body weights of the F1 generation male rats were significantly reduced in a dosage-dependent manner in the 1, 3, 10 and 30 mg/kg/day dosage groups. The absolute weights of the liver were significantly increased and the absolute weights of the spleen were significantly decreased in the 1 mg/kg/day and higher dosage groups, compared to the control group values. The absolute weights of the left and/or right kidneys were significantly increased in the 1 and 3 mg/kg/day dosage groups and significantly decreased in the 30 mg/kg/day dosage group, compared to control group values. The absolute weight of the thymus was also significantly decreased in the 10 and 30 mg/kg/day dosage groups. The absolute weight of the prostate, brain and left adrenal gland were significantly decreased in the 30 mg/kg/day dosage group.

The ratios of the weights of the seminal vesicles, with and without fluid, liver and left and right kidneys to the terminal body weights were significantly increased in the 1 mg/kg/day and higher dosage groups, compared to the control group values. The ratios of the weights of the left testis, with and without the tunica albuginea and the right testis to the terminal body weight, were significantly increased in the 3 mg/kg/day and higher dosage groups. The ratios of the weights of the left epididymis, left cauda epididymis, right epididymis and brain to the terminal body weight were significantly increased in the 10 mg/kg/day and higher dosage groups.

The ratios of the weight of the seminal vesicles with fluid to the brain weight were increased in the 1 mg/kg/day and higher dosage groups, compared to the control group values. These ratios were significantly increased in the 1 and 10 mg/kg/day dosage groups. The ratios of the liver weight to the brain weight were significantly increased in the 1 mg/kg/day and higher dosage groups, and the ratios of the left and right kidney

weights to the brain weight were significantly increased in the 1, 3 and 10 mg/kg/day dosage groups. The ratios of the spleen weight to the brain weight were significantly decreased in the 1 mg/kg/day and higher dosage groups, and the ratios of the thymus weight to the brain weight were significantly decreased in the 10 and 30 mg/kg/day dosage groups. The ratios of the left and right testes weight to the brain weight were increased in the 3 mg/kg/day and higher dosage groups. These ratios were significantly increased in the 10 mg/kg/day (right testis only) and 30 mg/kg/day dosage groups.

No treatment-related microscopic changes were observed in the reproductive organs of any of the male rats in the F1 generation. A treatment-related microscopic change was observed in the adrenal glands of the F1 generation male rats of the 30 mg/kg/day dosage groups. This change was characterized by hypertrophy and vacuolation of the cells of the zona glomerulosa of the adrenal cortex. Microscopic examination of liver sections of the F1 generation male rats which were observed grossly to be enlarged or have tan areas in the liver lobes showed up to marked diffuse hepatocellular hypertrophy. Single or lower incidences of hepatocellular necrosis also were observed in the male rats of these groups. All other microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment.

No statistically significant or dosage-dependent differences occurred in the numbers of motile sperm, percentage of motile sperm, static count (nonmotile sperm), total count, sperm density, spermatid count or density. Sperm morphology was unaffected by dosages of the test substance as high as 30 mg/kg/day.

### B.4. F1 Generation Female Rats

Two, one, one and six F1 generation female rats in the 1, 3, 10 and 30 mg/kg/day dosage groups were found dead. The increased incidence of mortality in the 30 mg/kg/day dosage group was considered treatment-related. Most deaths appeared to be related to a failure of the pups to thrive within a few days of weaning. This failure to thrive is common in this strain of rat when the weaning rats are small for weaning.

All clinical observations during the precohabitation, gestation and lactation periods were considered unrelated to the test substance. Body weights and body weight gains during the precohabitation period were significantly reduced by 30 mg/kg/day dosages of the test substance. Body weight gain for the entire precohabitation period was significantly reduced. Body weights during the gestation and lactation periods were significantly reduced in the 30 mg/kg/day dosage.

Absolute feed consumption values were significantly reduced in the 30 mg/kg/day dosage group on DPs 1 to 8, 8 to 15 and 15 to 22 during the precohabitation period, on DGs 7 to 10 during the gestation period and on DLs 1 to 15 during the lactation period. Relative feed consumption values were comparable among the 0, 1, 3, 10 and 30 mg/kg/day dosage groups for the precohabitation, gestation and lactation periods and did not differ statistically.

The 30 mg/kg/day dosage group F1 generation female rats had a small (approximately 1.7 days increase), but statistically significant delay in vaginal patency. The average day when vaginal patency was evident in the 30 mg/kg/day dosage group (36.6 days of age) significantly differed from the control group value (34.9 days of age) was above the Testing Facility historical control average and range for this parameter. When this observation in the 30 mg/kg/day dosage group was covaried with the significantly reduced ($p \leq 0.01$) body weight at time of acquisition, to determine if the significantly reduced body weights were a factor, the difference was still significant, but at the $p \leq 0.05$ level. When this observation in the 30 mg/kg/day dosage group was covaried with gestational age at time of acquisition, to determine if this group was younger and more immature than the control group, there was no significant difference in sexual maturation.

The average numbers of estrous stages per 21 days were significantly increased in the 30 mg/kg/day dosage group. The Testing Facility historical control average and range for this parameter is 5.0 stages and 4.8 to 5.2 stages, respectively. When this observation was covaried with the day 64 body weight or age, the difference was still significant, but at the $p \leq 0.05$ level. Evaluation of estrous stages at sacrifice did not reveal any differences among the five dosage groups. All mating and fertility parameters were unaffected by dosages of the test substance as high as 30 mg/kg/day. All necropsy observations for the F1 generation female rats were considered unrelated to the test substance.

Terminal body weights of the F1 generation female rats were comparable among the five dosage groups and did not differ significantly. The absolute weights of the pituitary and the ratios of the pituitary weight to the terminal body weight and to the brain weight were significantly decreased in the 3 mg/kg/day and higher dosage groups, as compared to the control group values.

No treatment-related microscopic changes were observed in the reproductive organs of any of the female rats in the F1 generation. All microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment.

Pregnancy occurred in 28 to 29 rats in each dosage group. Natural delivery observations including viability and lactation indices were unaffected by dosages of the test substance as high as 30 mg/kg/day. Anogenital distances measured for male and female pups on DLs 1 and 22 were comparable among the five dosage groups and did not significantly differ. No clinical or necropsy observations were attributable to maternal dosages of the test substance as high as 30 mg/kg/day.

F2 generation rats had comparable terminal body weights on DL 22; the values did not significantly differ from the control group values. Absolute weights of the brain, spleen and thymus and ratios of these organ weights to terminal body weight and to brain weight were comparable among the five dosage groups and did not significantly differ.

## C. Conclusion

On the basis of these data, the P generation paternal no-observable-adverse-effect-level (NOAEL) for ammonium perfluorooctanoate is less than 1 mg/kg/day (the 1 mg/kg/day dosage caused significant increases in the liver and kidney weights to terminal body weight and to brain weight ratios). The maternal NOAEL is 10 mg/kg/day (the 30 mg/kg/day dosage significantly reduced kidney weight and kidney weight to terminal body weight and to brain weight ratios). The reproductive NOAEL in the males and female P generation rats is greater than 30 mg/kg/day (the 30 mg/kg/day dosage had no effect on mating, fertility or maternal delivery parameters).

The F1 generation paternal no-observable-adverse-effect-level (NOAEL) for ammonium perfluorooctanoate is less than 1 mg/kg/day (the 1 mg/kg/day and higher dosages caused significant decreases in body weights and body weight gain and changes in organ weights and ratios to terminal body and brain weights and the 30 mg/kg/day dosage delayed sexual maturation possibly due to decreased gestational age at acquisition). The F1 generation maternal NOAEL is 10 mg/kg/day (the 30 mg/kg/day dosage increased postweaning mortality, decreased postweaning body weight, body weight gain and feed consumption, increased the number of estrous cycles per 21 days and delayed sexual maturation possibly due to decreased gestational age at acquisition). The reproductive NOAEL in the males and female F1 generation rats is greater than 30 mg/kg/day (the 30 mg/kg/day dosage had no effect on mating, fertility or maternal delivery parameters). The F2 generation terminal body weights and organ weights did not differ among the groups.

George E Deardorff 26 MAR 02

Alan M. Hoberman Ph.D., DABT Date
Director of Research

Raymond G York 26-MAR-2002

Raymond G. York, Ph.D., DABT Date
Associate Director of Research
and Study Director

# II. DESCRIPTION OF TEST PROCEDURES

## A. Conduct of Study

### A.1. Sponsor

3M Corporate Toxicology, 3M Center, Building 220-2E-02, St. Paul, Minnesota 55144-1000

### A.2. Testing Facility

Argus Research, 905 Sheehy Drive, Building A, Horsham, Pennsylvania 19044-1297

### A.3. Study Number

418-020

### A.4. Sponsor's Study Number

T-6889.6

### A.5. Purpose of the Study

The purpose of this study was to provide information concerning the effects of Ammonium Perfluorooctanoate (APFO) on the male and female reproductive systems in Crl:CD®(SD)IGS BR VAF/Plus® rats, including gonadal function, estrous cycles, mating behavior, conception, parturition, lactation, weaning and the growth and development of offspring. This study was also designed to provide information about effects on neonatal morbidity, mortality and preliminary data on potential prenatal developmental toxicity, as well as to serve as a guide for use in the design of subsequent tests.

### A.6. Study Design

The requirements of the U.S. Environmental Protection Agency (EPA)[1,2] were used as the basis for study design.

### A.7. Regulatory Compliance

The study was conducted in compliance with the Good Laboratory Practice (GLP) regulations of the U.S. Environmental Protection Agency (EPA)[3] and the Organisation for Economic Co-operation and Development (OECD)[4]. There were no deviations from the GLP regulations that affected the quality or integrity of the study. Quality Assurance Unit findings derived from the inspections during the conduct of this study are documented and have been provided to the Study Director and the Testing Facility Management.

## A.8. Ownership of the Study

The Sponsor owns the study. All raw data, analyses, reports and preserved tissues are the property of the Sponsor.

## A.9. Study Monitor

John Butenhoff, Ph.D., DABT, CIH (3M Corporate Toxicology, St. Paul, Minnesota 55144)

## A.10. Study Director

Raymond G. York, Ph.D., DABT (Associate Director of Research, Argus Research, Horsham, Pennsylvania 19044)

## A.11. Technical Performance

John F. Barnett, B.S. (Director of Laboratory Operations)
Russell A. Gazzara, Ph.D. (Senior Research Associate)
Joseph W. Lech, B.S. (Senior Research Associate)
Alaine L. Casey, A.S. (Scheduling Coordinator/Blood Collection Coordinator)
Allyson B. Hansell, B.S. (Laboratory Technician)
Brian K. Kelsch (Necropsy Team Leader)
Christopher K. Ruppert, B.S. (Formulation Laboratory Technician)

## A.12. Report Preparation

Raymond G. York, Ph.D., DABT
Valerie A. Sharper, M.S. (Director of Study Management)
Jo Ann Frazee, M.S. (Study Coordinator)
Elizabeth M. Wiley, B.S. (Data Management Specialist)
JoAnne M. Conklin, B.S. (Data Management Specialist)
Cristina Petrescu (Report Administrator)

## A.13. Report Review

Alan M. Hoberman, Ph.D., DABT (Director of Research)
Valerie A. Sharper, M.S. (Director of Study Management)

## A.14. Date Protocol Signed

7 November 2000

## A.15. Dates of Technical Performance

### A.15.a. P Generation Male Rats

| | |
|---|---|
| Rat Arrival | 07 NOV 00 |
| Test Substance Dosage Period | 13 NOV 00 - 01 MAR 01 |
| Male Rats Sacrificed | 26 FEB 01 - 02 MAR 01 |

### A.15.b. P Generation Female Rats

| | |
|---|---|
| Rat Arrival | 07 NOV 00 |
| Test Substance Dosage Period | 13 NOV 00 - 18 MAR 01 |
| Precohabitation Estrous Cycle Evaluation | 01 JAN 01 - 21 JAN 01 |
| Cohabitation Period | 21 JAN 01 PM - 04 FEB 01 AM |
| Day 0 of Presumed Gestation[a] (DG 0) | 22 JAN 01 - 04 FEB 01 |
| Delivery Period[b] (Day 1 of lactation) | 12 FEB 01 - 26 FEB 01 |
| DG 25 Sacrifice (Rats that did not deliver a litter) | 16 FEB 01 - 18 FEB 01 |
| DL[c] 22 Sacrifice (P generation dams and F1 generation litters not selected for continued observation) | 05 MAR 01 - 19 MAR 01 |

### A.15.c. F1 Generation Male Rats

| | |
|---|---|
| Test Substance Dosage Period | 06 MAR 01 - 05 JUL 01 |
| Male Rats Sacrificed - Interim (Rats not selected for continued observations following observations for sexual maturation) | 13 APR 01 and 04 MAY 01 |
| Male Rats Sacrificed - Scheduled | 02 JUL 01 - 06 JUL 01 |

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a. Gestation day 0 is defined as the day spermatozoa are observed in a smear of the vaginal contents and/or a copulatory plug observed *in situ*.

b. The day of birth is designated postnatal day 0 (day 0 of lactation) in Addendum 10 to the Pesticide Assessment Guidelines of the U.S. Environmental Protection Agency (EPA). This same day is designated day 1 postpartum (day 1 of lactation) in the Standard Operating Procedures of the Testing Facility. Throughout this protocol, the day of birth will be designated day 1 postpartum (day 1 of lactation) and all subsequent ages of the F1 generation rats and days of the lactation period will be determined and cited accordingly.

c. DL is an abbreviation used for day of lactation/postpartum.

### A.15.d. F1 Generation Female Rats

| | |
|---|---|
| Test Substance Dosage Period | 06 MAR 01 - 15 JUL 01 |
| Precohabitation Estrous Cycle Evaluation | 08 MAY 01 - 28 MAY 01 |
| Cohabitation Period | 28 MAY 01 PM - 11 JUN 01 AM |
| Female Rats Sacrificed - Interim (Rats not selected for continued observation following observations for sexual maturation) | 06 APR 01 |
| DG 0 | 29 MAY 01 - 04 JUN 01 |
| DL 1 | 19 JUN 01 - 25 JUN 01 |
| DG 25 Sacrifice (Rats that did not deliver a litter) | 23 JUN 01 - 29 JUN 01 |
| DL 22 Sacrifice (F1 generation dams and F2 generation pups) | 10 JUL 01 - 16 JUL 01 |

### A.16. Records Maintained

The original report, raw data and reserve samples of the test substance and vehicle are retained in the archives of Argus Research. Any preserved tissues are retained in the archives of the Testing Facility for one year after the mailing of the draft final report, after which time the Sponsor will decide their final disposition. All unused prepared formulations were discarded at the Testing Facility. Unused bulk test substance was returned to the Sponsor.

## B. Test Substance Information

### B.1. Description

Ammonium Perfluorooctanoate (APFO) - white powder

### B.2. Lot Number

332

### B.3. Date Received and Storage Conditions

The test substance was received on 7 November 2000 and stored at room temperature.

### B.4. Special Handling Instructions

Standard safety precautions (use of protective clothing, gloves, dust-mist/HEPA-filtered mask, safety goggles or safety glasses and a face-shield) were taken when handling the prepared solutions. Tyvek® sleeves and a half-face respirator were worn when using the bulk test substance and preparation was conducted under a chemical fume hood.

### B.5. Analysis of Purity

Information to document or certify the identity, composition, method of synthesis, strength and purity of the test substance was provided by the Sponsor to the Testing Facility. A Certificate of Analysis is available in APPENDIX H.

## C. Vehicle Information

### C.1. Description

Reverse Osmosis Membrane Processed Deionized Water (R.O. deionized water).

### C.2. Storage Conditions

R.O. deionized water is available from a continuous source at the Testing Facility and was maintained at room temperature.

### C.3. Special Handling Instructions

Standard safety precautions (use of protective clothing, gloves, dust-mist/HEPA-filtered mask, safety goggles or safety glasses and a face-shield) were taken when handling the vehicle.

### C.4. Analysis of Purity

Neither the Sponsor nor the Study Director was aware of any potential contaminants likely to have been present in the vehicle that would have interfered with the results of this study.

## D. Test Substance Preparation and Storage Conditions

Solutions of the test substance were prepared weekly at the Testing Facility. Prepared formulations were stored refrigerated, protected from light.

## D.1. Sample Information

| Sample Type | Size | Date Retained | Storage/Shipping Conditions | Shipped To | Date Shipped |
|---|---|---|---|---|---|
| Bulk Test Substance | 1 g | 15 JUL 01 | Room temperature | Sponsor | 16 JUL 01 |
| Concentration (all levels)[a] | 2 mL | 10 NOV 00<br>12 JUL 01 | Refrigerated, protected from light | Sponsor | 13 NOV 00<br>12 JUL 01 |
| Stability (all levels)[b] | 2 mL | 10 NOV 00 | Refrigerated, protected from light | Sponsor | 13 NOV 00 |
| Bulk Test Substance Reserve | 1 g | 10 NOV 00 | Room temperature | Testing Facility Archives | 13 DEC 00 |
| Vehicle Reserve | 5 mL | 10 NOV 00 | Room temperature | Testing Facility Archives | 13 DEC 00 |

a. Duplicate samples were taken on the first and last days of preparation. One sample of each duplicate set was shipped for analysis. The remaining samples were retained at the Testing Facility as backup samples.

b. Two sets of duplicate samples were taken on the first day of preparation. One sample of each duplicate set was shipped for analysis on the day of preparation. Samples were analyzed as soon as possible and 10 days after the first analysis. The remaining samples were retained at the Testing Facility as backup samples.

## D.2. Analytical Results

The analytical results are available in APPENDIX I.

# E. Test System

## E.1. Species

Rat

## E.2. Strain

Crl:CD®(SD)IGS BR VAF/Plus®

## E.3. Supplier (Source)

Charles River Laboratories, Inc., Kingston, New York (male rats) and Raleigh, North Carolina (female rats)

Offspring were delivered at the Testing Facility by the pregnant P or F1 generation dams in this study.

## E.4. Sex

Male and Female rats

## E.5. Rationale for Test System

The Crl:CD®(SD)IGS BR VAF/Plus® rat was selected as the Test System because: 1) this strain of rat has been demonstrated to be sensitive to reproductive and developmental toxins and has been widely used throughout industry for reproductive and developmental toxicity evaluations and 2) historical data and experience exist at the Testing Facility[5-7].

## E.6. Test System Data

| | Male Rats | Female Rats |
|---|---|---|
| Number of Rats | 165 | 165 |
| Approximate Date of Birth | 02 OCT 00 | 01 OCT 00 |
| Approximate Age at Arrival | 37 days | 38 days |
| Weight (g) on Day after Arrival | 100 - 143 | 88 - 132 |
| Weight (g) at Study Assignment | 140 - 164 | 120 - 144 |

## E.7. Method of Randomization

### E.7.a. P Generation Rats

Upon arrival, P generation rats were assigned to individual housing on the basis of computer-generated random units. After acclimation, rats were selected for study on the basis of physical appearance and body weight. Rats were assigned to five dosage groups (Groups I through V), 30 rats per sex per dosage group, using a computer-generated (weight-ordered) randomization procedure.

### E.7.b. F1 Generation Pups/Rats

Litters were not culled during the lactation period, because random selection of pups for culling could have resulted in potential biases in pup viabilities and body weight gains during this period.

All F1 generation rats were weaned on DL 22 based on observed growth and viability of these pups. At weaning, a table of random units was used to select two F1 generation pups per sex per litter per group (60 male and 60 female pups per group), resulting in a total of 600 rats (300 rats per sex) chosen for continued evaluation. At least two male pups and two female pups per litter, when possible, were selected.

Following sexual maturation, a table of random units was used to select one male and one female F1 generation rat per litter per group when possible for continuation through mating to produce the F2 generation.

## E.8. System of Identification

### E.8.a. P Generation Rats

Male and female rats were assigned temporary numbers at receipt and given unique permanent identification numbers when assigned to the study before administration of the first dosage of the test substance or vehicle. Rats were permanently identified using Monel® self-piercing ear tags (Gey Band and Tag Co., Inc., No. MSPT 20101) inscribed with the rat's designated unique permanent number. Cage tags were marked with the study number, permanent rat number, sex, test substance identification, generation and dosage level.

### E.8.b. F1 Generation Pups/Rats

Pups were not individually identified during the postpartum period; all parameters were evaluated in terms of the litter. At weaning, each F1 generation rat selected for continued observation was identified with a Monel® self-piercing ear tag.

### E.8.c. F2 Generation Pups

Pups were not individually identified during the postpartum period; all parameters were evaluated in terms of the litter.

## F. Husbandry

## F.1. Research Facility Registration

USDA Registration No. 14-R-0122 under the Animal Welfare Act, 7 U.S.C. 2131 *et seq.*

## F.2. Study Rooms

The study rooms were maintained under conditions of positive airflow relative to a hallway and independently supplied with a minimum of ten changes per hour of 100% fresh air that had been passed through 99.97% HEPA filters. Room temperature and humidity were monitored constantly throughout the study. Room temperature was targeted at 64°F to 79°F (18°C to 26°C); relative humidity was targeted at 30% to 70%[a].

## F.3. Housing

All cage sizes and housing conditions were in compliance with the *Guide for the Care and Use of Laboratory Animals*[8].

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a. See APPENDIX J (ENVIRONMENTAL AND HUSBANDRY REPORTS).

### F.3.a. P Generation Rats/F1 Generation Litters

P generation rats were individually housed in stainless steel, wire-bottomed cages except during the cohabitation and postpartum periods. During cohabitation, each pair of rats was housed in the male rat's cage. Beginning no later than DG 20, female rats were individually housed in nesting boxes. Each dam and delivered litter was housed in a common nesting box during the postpartum period.

### F.3.b. F1 Generation Rats/F2 Generation Litters

After weaning, the F1 generation rats were individually housed before cohabitation, housed in pairs (one male rat per female rat) during cohabitation, and individually housed after cohabitation. The same type of caging was used as described for the P generation rats. Beginning no later than DG 20, female rats were individually housed in nesting boxes. Each dam and delivered litter was housed in a common nesting box during the postpartum period.

### F.4. Lighting

An automatically-controlled fluorescent light cycle was maintained at 12-hours light: 12-hours dark, with each dark period beginning at 1900 hours EST. The lights were turned on one hour early on 13 April 2001 in order to accommodate the necropsy schedule.

### F.5. Sanitization

Cage pan liners were changed a minimum of three times weekly. Cages were changed approximately every other week. Bedding was changed as often as necessary to keep the rats dry and clean.

### F.6. Feed

Rats were given *ad libitum* access to Certified Rodent Diet® #5002 (PMI Nutrition International, St. Louis, Missouri) in individual feeders.

### F.7. Feed Analysis

Analyses were routinely performed by the feed supplier. No contaminants at levels exceeding the maximum concentration limits for certified feed or deviations from expected nutritional requirements were detected by these analyses. Copies of the results of the feed analyses are available in the raw data and in APPENDIX J.

Neither the Sponsor nor the Study Director was aware of any potential contaminants likely to have been present in the feed that would have interfered with the results of this study.

## F.8. Water

Local water that had been processed by passage through a reverse osmosis membrane (R.O. water) was available to the rats *ad libitum* from individual bottles attached to the cages and/or from an automatic watering access system. Chlorine was added to the processed water as a bacteriostat.

## F.9. Water Analysis

The processed water is analyzed twice annually for possible chemical contamination (Lancaster Laboratories, Lancaster, Pennsylvania) and monthly for possible bacterial contamination (Analytical Laboratories, Inc., Chalfont, Pennsylvania). Copies of the results of the water analyses are available in the raw data and in APPENDIX J.

Neither the Sponsor nor the Study Director was aware of any potential contaminants likely to have been present in the water that would have interfered with the results of this study.

## F.10. Bedding Material

Bed-o'cobs® bedding (The Anderson's Industrial Products Group, Maumee, Ohio) was used as the nesting material.

## F.11. Bedding Analysis

Analyses for possible contamination are conducted semi-annually. Copies of the results of the bedding analyses are available in the raw data and in APPENDIX J.

Neither the Sponsor nor the Study Director was aware of any potential contaminants likely to have been present in the bedding that would have interfered with the results of this study.

## G. Methods

### G.1. Dosage Administration

### G.1.a. P Generation Rats

| Dosage Group | Dosage (mg/kg/day) | Concentration[a] (mg/mL) | Dosage Volume (mL/kg) | Number of Rats per Sex | Assigned Rat Numbers | |
|---|---|---|---|---|---|---|
| | | | | | Male Rats | Female Rats |
| I | 0 | 0 | 5 | 30 | 13601-13630 | 13801-13830 |
| II | 1 | 0.2 | 5 | 30 | 13631-13660 | 13831-13860 |
| III | 3 | 0.6 | 5 | 30 | 13661-13690 | 13861-13890 |
| IV | 10 | 2 | 5 | 30 | 13691-13720 | 13891-13920 |
| V | 30 | 6 | 5 | 30 | 13721-13750 | 13921-13950 |

a. The test substance was considered 100% pure for the purpose of dosage calculations.

### G.1.b. F1 Generation Rats

| Dosage Group | Dosage (mg/kg/day) | Concentration[a] (mg/mL) | Dosage Volume (mL/kg) | Number of Rats per Sex[b] | Assigned Rat Numbers | |
|---|---|---|---|---|---|---|
| | | | | | Male Rats | Female Rats |
| I | 0 | 0 | 5 | 60 | 1001 - 1017, 6553 - 6555[c], 1021 - 1060 | 1301 - 1318, 19779[d], 19780[d], 1321- 1360 |
| II | 1 | 0.2 | 5 | 60 | 1061 - 1120 | 1361 - 1420 |
| III | 3 | 0.6 | 5 | 60 | 1121 - 1180 | 1421 - 1480 |
| IV | 10 | 2 | 5 | 60 | 1181 - 1240 | 1481 - 1540 |
| V | 30 | 6 | 5 | 60 | 1241 - 1300 | 1541 - 1600 |

a. The test substance was considered 100% pure for the purpose of dosage calculations.
b. Sixty rats per sex were dosed until the time of interim sacrifice and 30 rats per sex were dosed after the interim sacrifice.
c. Male rats 1018 - 1020 were moribund sacrificed and replaced by male rats 6553 - 6555, respectively.
d. Female rats 1319 and 1320 were moribund sacrificed and replaced by female rats 19779 and 19780, respectively.

### G.2. Rationale for Dosage Selection

Dosages were selected on the basis of prior dietary and gavage studies in rats performed by the Sponsor.

The highest dosage was expected to produce some toxicity. The intermediate dosage levels were expected to produce minimal observable toxic effects, while the lowest dosage level was expected to produce no evidence of either systemic or reproductive toxicity [no-observable-adverse-effect level (NOAEL)].

## G.3. Route of Administration and Rationale for Route of Administration

The oral (gavage) route was selected for use because: 1) in comparison with the dietary route, the exact dosage can be accurately administered; and 2) it is one possible route of human exposure.

## G.4. Frequency of Administration

### G.4.a. P Generation Rats

Male and female rats were given the test substance or vehicle once daily, beginning at approximately six weeks of age (at least 70 days before cohabitation) and continuing until the day before sacrifice. The dosage volume was adjusted daily on the basis of the most recently recorded body weight[a] and given at approximately the same time each day[b].

Dams in the process of delivering pups were not intubated until completion of parturition, in order to preclude possible disruption of maternal behavior and/or cannibalization of the pups. Consequently, some dams were not administered one daily dosage during the delivery period. No dam missed more than one daily intubation.

### G.4.b. F1 Generation Rats

F1 generation pups may have been exposed to the test substance during maternal gestation (*in utero* exposure) or via maternal milk during the postpartum period. F1 generation rats were given the same dosage level of the test substance as their respective P generation sires and dams. Dosages were given once daily, beginning at weaning (approximately 70 days before cohabitation) and continuing until the day before sacrifice[c]. Dosages were adjusted at least weekly for body weight changes and given at approximately the same time each day[d].

### G.4.c. F2 Generation Pups

F2 generation pups may have been exposed to the test substance during maternal gestation (*in utero* exposure) or via maternal milk during the postpartum period.

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a. See APPENDIX G (DEVIATIONS FROM THE PROTOCOL AND THE STANDARD OPERATING PROCEDURES OF THE TESTING FACILITY), item 1.
b. See APPENDIX G, item 2.
c. See APPENDIX G, item 3.
d. See APPENDIX G, items 4 and 5.

## G.5. Method of Study Performance

### G.5.a. P Generation Rats

The P generation rats were observed for viability at least twice each day of the study and for general appearance weekly during the acclimation period. The rats were also examined for clinical observations of effects of the test substance, abortions, premature deliveries and deaths before and 60 ± 10 minutes after dosage during the dosage period[a]. Body weights of the male rats were recorded weekly during the acclimation and dosage periods and on the day of sacrifice. Body weights of the female rats were recorded weekly during the acclimation, precohabitation and cohabitation periods and on DGs 0, 7, 10, 14, 18, 21 and 25 (if necessary) and on DLs 1, 5, 8, 11, 15 and 22 (terminal body weight). Feed consumption values for the male rats were recorded weekly during the dosage period. Feed consumption values for the female rats were recorded weekly during the precohabitation period, on DGs 0, 7, 10, 14, 18, 21 and 25 (if necessary) and on DLs 1, 5, 8, 11 and 15. Because pups begin to consume maternal feed on or about DL 15, feed consumption values were not tabulated after DL 15. During cohabitation, when two rats occupied the same cage with one feed jar, replenishment of the feed jars was documented but individual values were not recorded or tabulated.

Estrous cycling was evaluated daily by examination of vaginal cytology beginning 21 days before the scheduled cohabitation period and continuing until spermatozoa were observed in a smear of the vaginal contents and/or a copulatory plug was observed *in situ* during the cohabitation period[b]. On the day of scheduled sacrifice, an examination of vaginal cytology was performed to determine the stage of estrous cycle. Within each dosage group, consecutive order was used to assign P generation rats to cohabitation, one male rat per female rat. The cohabitation period consisted of a maximum of 14 days. Female rats with spermatozoa observed in a smear of the vaginal contents and/or a copulatory plug *in situ* were considered to be at DG 0 and assigned to individual housing. If a female rat had not been mated after two weeks, the pair of rats was separated without further opportunity for mating.

The P generation female rats were evaluated for duration of gestation (DG 0 to the day the first pup was observed), fertility index (percentage of matings that result in pregnancy), gestation index (percentage of pregnancies that result in birth of live litters), number and sex of offspring per litter (live and dead pups), number of implantation sites, general condition of the dam and litter during the postpartum period, litter size and viability (tabulated on DLs 1, 5, 8, 15 and 22), viability indices (percentages of pups born that survive to DLs 1 and 5), lactation index (percentage of pups that survive from DLs 5 to 22) and percent survival and sex ratio (tabulated on DLs 1, 5, 8, 15 and 22). Maternal behavior of the P generation dams was recorded on DLs 1, 5, 8, 15 and 22[c].

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a. See APPENDIX G, items 6 and 7.
b. See APPENDIX G, item 8.
c. See APPENDIX G, item 9.

Deviations from expected maternal behavior were recorded, if and when observed, on all other days of the postpartum period.

### G.5.b. F1 Generation Pups/Litters

Litters were examined after delivery to identify the number and sex of pups, stillbirths, live births and gross alterations. Day 1 of lactation [(postpartum), DL 1] was defined as the day of birth and was also the first day on which all pups in a litter were individually weighed (pup body weights were recorded after all pups in a litter were delivered and groomed by the dam).

Each litter was evaluated for viability at least twice each day of the 22-day postpartum period. Dead pups observed at these times were removed from the nesting box. The F1 generation pups in each litter were counted once daily. Physical signs (including variations from expected lactation behavior and gross external physical anomalies) were recorded for the pups each day[a]. Pup body weights were recorded on DLs 1, 5, 8, 15 and 22. On DL 12, all male pups were examined for the presence of nipples. The criterion of passing was met when no nipples were present.

### G.5.c. F1 Generation Rats

The F1 generation rats were observed for viability at least twice each day of the study. The rats were also examined for clinical observations of effects of the test substance, abortions, premature deliveries and deaths before and 60 ± 10 minutes after dosage during the dosage period[b]. Body weights of the male rats were recorded weekly during the postweaning period and on the day of sacrifice. Body weights of the female rats were recorded weekly during the postweaning period to cohabitation, and on DGs 0, 7, 10, 14, 18, 21 and 25 (if necessary) and on DLs 1, 5, 8, 11, 15 and 22 (terminal body weight)[c]. Feed consumption values for the male rats were recorded weekly during the dosage period. Feed consumption values for the female rats were recorded weekly during the postweaning period to cohabitation, on DGs 0, 7, 10, 14, 18, 21 and 25 (if necessary) and on DLs 1, 5, 8, 11 and 15[d]. Because pups begin to consume maternal feed on or about DL 15, feed consumption values were not tabulated after DL 15. During cohabitation, when two rats occupied the same cage with one feed jar, replenishment of the feed jars was documented but individual values were not recorded or tabulated.

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a. See APPENDIX G, item 10.
b. See APPENDIX G, items 6, 7, 11 and 12.
c. See APPENDIX G, item 13.
d. See APPENDIX G, items 14 and 15.

Female rats were examined for age of vaginal patency, beginning on day 28 postpartum[a]. Male rats were evaluated for age of preputial separation, beginning on day 39 postpartum[b]. Body weights were recorded when rats reached sexual maturation.

Estrous cycling was evaluated daily by examination of vaginal cytology beginning 21 days before the scheduled cohabitation period and continuing until spermatozoa were observed in a smear of the vaginal contents and/or a copulatory plug was observed *in situ* during the cohabitation period. On the day of scheduled sacrifice, an examination of vaginal cytology was performed to determine the stage of estrous cycle. A table of random units was used to assign F1 generation rats to cohabitation, one male rat per female rat. If random assignment to cohabitation resulted in the pairing of F1 generation siblings, an alternate assignment was made. The cohabitation period consisted of a maximum of 14 days. Female rats with spermatozoa observed in a smear of the vaginal contents and/or a copulatory plug *in situ* were considered to be at DG 0 and assigned to individual housing. If a female rat had not been mated after two weeks, the pair of rats was separated without further opportunity for mating.

The F1 generation female rats were evaluated for duration of gestation (DG 0 to the day the first pup was observed), fertility index (percentage of matings that result in pregnancy), gestation index (percentage of pregnancies that result in birth of live litters), number and sex of offspring per litter (live and dead pups), number of implantation sites, general condition of the dam and litter during the postpartum period, litter size and viability (tabulated on DLs 1, 5, 8, 15 and 22), viability indices (percentages of pups born that survive to DLs 1 and 5), lactation index (percentage of pups that survive from DLs 5 to 22) and percent survival and sex ratio (tabulated on DLs 1, 5, 8, 15 and 22). Maternal behavior of the F1 generation dams was recorded on DLs 1, 5, 8, 15 and 22[c]. Deviations from expected maternal behavior were recorded, if and when observed, on all other days of the postpartum period.

### G.5.d. F2 Generation Pups

Litters were examined after delivery to identify the number and sex of pups, stillbirths, live births and gross alterations. Each litter was evaluated for viability at least twice each day of the 22-day postpartum period. Dead pups observed at these times were removed from the nesting box. The F1 generation pups in each litter were counted once daily. Physical signs (including variations from expected lactation behavior and gross external physical anomalies) were recorded for the pups each day[d]. Pup body weights were recorded on DLs 1, 5, 8, 15 and 22. Anogenital distance was measured for all live F2 generation pups on DLs 1 and 22[e].

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a. See APPENDIX G, item 16.
b. See APPENDIX G, items 17 and 18.
c. See APPENDIX G, item 19.
d. See APPENDIX G, item 20.
e. See APPENDIX G, item 21.

## G.6. Gross Necropsy

### G.6.a. P and F1 Generation Rats

P and F1 generation rats were sacrificed by carbon dioxide asphyxiation, necropsied and examined for gross lesions. Representative photographs of paternal and maternal gross lesions are available in the raw data. Gross lesions were retained in neutral buffered 10% formalin and examined histologically. Tissue trimming and histopathology were performed under the supervision of or by a Board Certified Veterinary Pathologist.

At scheduled sacrifice, after completion of the cohabitation period (male rats) and on DL 22 (female rats), blood samples (approximately 4 mL per rat) were collected from the inferior vena cava into serum separator tubes and centrifuged[a]. The resulting serum was immediately frozen on dry ice and maintained frozen (≤-70°C) until shipment to the Sponsor for analysis. The liver was excised, weighed, and a sample section (lateral lobe) frozen and retained at ≤-70°C until shipment to the Sponsor for analysis.

Gross necropsy included an initial physical examination of external surfaces and all orifices, as well as an internal examination of tissues and organs *in situ*. The following were examined: external and internal portions of all hollow organs; the external surfaces of the brain and spinal column, the nasal cavity and neck with associated organs and tissues; the thoracic, abdominal and pelvic cavities with associated organs and tissues; and the musculo/skeletal carcass[b]. The lungs of the F1 generation male and female rats assigned to scheduled sacrifice were perfused with neutral buffered 10% formalin. The urinary bladder of F1 generation rats was perfused with neutral buffered 10% formalin.

The following organs were individually weighed and organ-to-body weight and organ-to-brain weight ratios were calculated: brain, kidneys, spleen, ovaries, testes, thymus, liver, adrenal glands, pituitary, uterus with oviducts and cervix, left epididymis (whole and cauda), right epididymis, prostate and seminal vesicles (with coagulating glands and with and without fluid). The following tissues were retained in neutral buffered 10% formalin for possible histological evaluation: pituitary, adrenal glands, vagina, uterus with oviducts, cervix and ovaries, right testis (initially fixed in Bouin's solution for 48 to 96 hours), seminal vesicles (with coagulating gland), right epididymis and prostate[c].

Histological examination was performed on tissues from 10 randomly selected rats per sex from the control and high dosage groups. All gross lesions were examined histologically. In addition to gross lesions such as atrophy or tumors, testicular histopathological examination was conducted to identify treatment-related effects such as retained spermatids, missing germ cell layers or types, multinucleated giant cells or sloughing of spermatogenic cells into the lumen. Examination of the intact epididymis included the caput, corpus and cauda (accomplished by evaluation of a longitudinal

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a. See APPENDIX G, item 22.
b. See APPENDIX G, item 23.
c. See APPENDIX G, items 24, 25 and 26.

section) and conducted in order to identify such lesions as sperm granulomas, leukocytic infiltration (inflammation), aberrant cell types within the lumen, or the absence of clear cells in the cauda epididymal epithelium.

Reproductive organs of the low and intermediate dosage group rats suspected of reduced fertility (e.g., those rats that failed to mate, conceive, sire or deliver healthy offspring, or for which estrous cyclicity or sperm number, motility or morphology were affected) were subjected to histological evaluation[a].

Rats that died or were sacrificed because of moribund condition were examined for the cause of death or moribund condition on the day the observation was made. The rats were examined for gross lesions. Representative photographs of gross lesions are available in the raw data. Tissues of the P generation rats were weighed and retained and examined histologically as described for male rats sacrificed at the completion of the cohabitation period and female rats sacrificed on DL 22.

### G.6.a.1. Male Rats

Male rats were sacrificed after completion of the cohabitation period [days of study (DSs) 106 to 110 and 109 to 120 for the P and F1 generation rats, respectively]. A portion of the left cauda epididymis was used for evaluation of cauda epididymal sperm concentration and motility using computer assisted sperm analysis (CASA). Motility was evaluated by the Hamilton Thorne IVOS by collection of a sample from the left cauda epididymis. The remaining left cauda epididymis was used to manually evaluate sperm morphology and to prepare a homogenate to be evaluated by the Hamilton Thorne IVOS for a determination of sperm concentration (sperm per gram of tissue weight). Sperm morphology evaluations included the following: 1) determination of the percentage of normal sperm in a sample of at least 200; and 2) qualitative evaluation of abnormal sperm, including such categories as abnormal head, abnormal tail, and abnormal head and tail. The left testis was used for evaluation of testicular spermatid concentration using computer-assisted sperm analysis (CASA). The left testis was weighed (both before and after removal of the tunica albuginea) and then homogenized. A sample from the resulting homogenate was stained with an IDENT Stain Kit from Hamilton Thorne Research and a slide was prepared for analysis by the Hamilton Thorne IVOS. Ten fields were analyzed to determine testicular spermatid concentration (spermatids per gram of tissue weight). All images produced during analysis were retained as raw data.

### G.6.a.2. Female Rats

P generation female rat 13822 in the vehicle control group was sacrificed on DL 8 and dam 13852 in the 1 mg/kg/day dosage group was sacrificed on DL 11. The litters from these two dams were inadvertently mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.

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a. See APPENDIX G, item 27.

All surviving P and F1 generation female rats were sacrificed on DL 22. The number and distribution of implantation sites were recorded. Rats that did not deliver a litter were sacrificed on DG 25 and examined for pregnancy status. Uteri of apparently nonpregnant rats were examined while being pressed between glass plates to confirm the absence of implantation sites. A gross necropsy of the thoracic, abdominal and pelvic viscera was performed. Female rats without a confirmed mating date that did not deliver a litter were sacrificed on an estimated DG 25. The P generation dam with no surviving pups was sacrificed after the last pup was found dead. A gross necropsy of the thoracic, abdominal and pelvic viscera was performed.

**G.6.b. F1 and F2 Generation Pups**

Pups that died before examination of the litter for pup viability on DL 1 were evaluated for vital status at birth. The lungs were removed and immersed in water. Pups with lungs that sank were identified as stillborn; pups with lungs that floated were identified as liveborn, and to have died shortly after birth. When postmortem autolysis precluded these evaluations, it was noted in the necropsy data.

Pups found dead on DLs 2 to 22 were examined for gross lesions and for the cause of death. When postmortem autolysis precluded these evaluations, it was noted in the necropsy data.

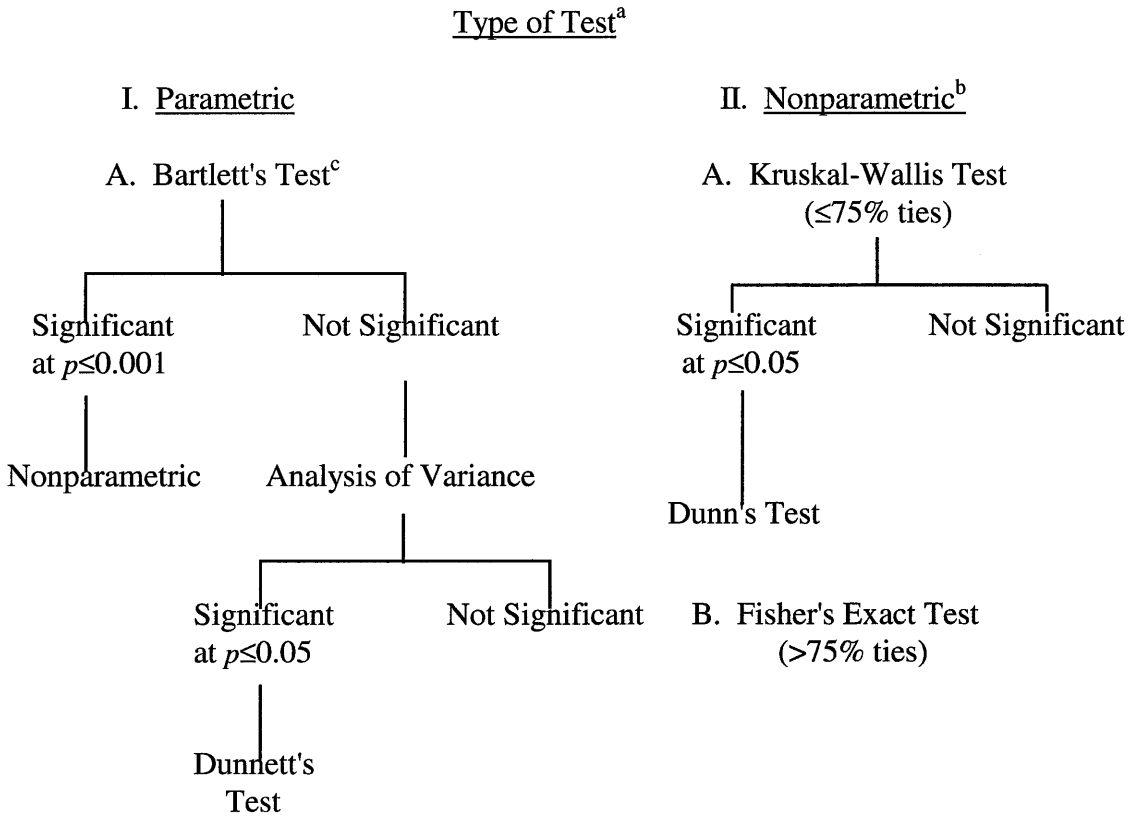
All pups culled on DL 22 were sacrificed by carbon dioxide asphyxiation. Three pups per sex per litter, when possible, were randomly selected and examined for gross lesions. Necropsy included a single cross-section of the head at the level of the frontal-parietal suture and examination of the cross-sectioned brain for apparent hydrocephaly. The brain, spleen and thymus from one of the three selected pups per sex per litter were weighed and the brain, spleen and thymus from the three selected pups per sex per litter were retained in neutral buffered 10% formalin. Gross lesions from the three selected pups per sex per litter were retained in neutral buffered 10% formalin. Representative photographs of gross lesions are available in the raw data. All remaining pups were discarded without further examination.

F1 generation pups not selected for continued observation following continued observations for sexual maturation were sacrificed by carbon dioxide asphyxiation and a limited necropsy was performed. The thoracic, abdominal and pelvic cavities were examined for gross lesions. Gross lesions were preserved in neutral buffered 10% formalin. Representative photographs of gross lesions are available in the raw data. All other tissues and carcasses were discarded.

## G.7. Data Collection and Statistical Analyses

Data generated during the course of this study were recorded either by hand or using the *Argus Automated Data Collection and Management System*, the *Vivarium Temperature and Relative Humidity Monitoring System* and the *Hamilton Thorne IVOS*. All data were tabulated, summarized and/or statistically analyzed using the *Argus Automated Data Collection and Management System*, the *Vivarium Temperature and Relative Humidity Monitoring System, Microsoft Excel* [part of Microsoft Office 97 (version SR-2)] and/or *The SAS System* (version 6.12).

The following schematic represents the statistical analyses of the data:

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a. Statistically significant probabilities are reported as either $p \leq 0.05$ or $p \leq 0.01$.
b. Proportion data are not included in this category.
c. Test for homogeneity of variance.

All adult and pup incidence data were analyzed using the Variance Test for Homogeneity of the Binomial Distribution[9].

Body weights, body weight changes, feed consumption data, durations of gestation and delivery, litter averages for pup body weights and percent male fetuses or pups and mortality, cumulative survival and parameters involving continuous data were analyzed using Bartlett's Test of Homogeneity of Variances[10] and the Analysis of Variance[11], when appropriate [i.e., Bartlett's Test was not significant ($p>0.001$]. If the Analysis of Variance was significant ($p\leq0.05$), Dunnett's Test[12] was used to identify the statistical significance of the individual groups. If the Analysis of Variance was not appropriate [i.e., Bartlett's Test was significant ($p\leq0.001$)], the Kruskal-Wallis Test[13] was used, when 75% or fewer ties were present; when more than 75% ties were present, Fisher's Exact Test[14] was used. In cases where the Kruskal-Wallis Test was statistically significant ($p\leq0.05$), Dunn's Method of Multiple Comparisons[15] was used to identify the statistical significance of the individual groups.

All other natural delivery data involving discrete data were evaluated using the Kruskal-Wallis Test[13] procedures previously described.

# III. RESULTS - P GENERATION RATS

## A. P Generation Male Rats

### A.1. Mortality and Clinical Observations - P Generation Male Rats (Summary - Table B1; Individual Data - Table B13)

#### A.1.a. Mortality

One P generation male rat in the 30 mg/kg/day dosage group was moribund sacrificed on day 45 of the study (DS 45). The moribund condition was considered possibly related to the test substance because it occurred in the highest dosage group and this rat exhibited adverse clinical observations considered related to the test substance. Observations in this rat are described below. All other P generation male rats survived to scheduled sacrifice.

Male rat 13732 in the 30 mg/kg/day dosage group was moribund sacrificed on DS 45. This rat was administered 44 daily dosages of the test substance. Adverse clinical observations before sacrifice included dehydration on DSs 8 and 9, emaciation on DSs 18 to 34 and 41 to 45, cold to touch and urine-stained abdominal fur on DSs 44 and 45 and decreased motor activity on DS 45. This rat lost weight on DSs 1 to 8, 15 to 22 and 36 to 43 and feed consumption values were reduced on DSs 1 to 8, 15 to 22 and 36 to 43, compared to other rats in the dosage group. All lobes of the liver were pale and tan and both testes were red at necropsy; all other tissues examined appeared normal.

#### A.1.b. Clinical Observations

Statistically significant increases ($p \leq 0.01$) in the incidences of dehydration, urine-stained abdominal fur and ungroomed coat occurred in the 30 mg/kg/day dosage group. The number of male rats with chromorhinorrhea was increased in the 3 mg/kg/day and higher dosage groups; however these increases were not statistically significant.

All other clinical observations were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and/or 2) the observation occurred in only one or two male rats in any dosage group. These observations included soft or liquid feces, emaciation, dried red or red perinasal substance, cold to touch, missing/broken and/or misaligned incisors, chromodacryorrhea, decreased motor activity, pale extremities, dried red substance on fur, no feces, scant feces, rales, swollen ears, abrasion on a limb, red substance on the penis and vocalization. The significant increases ($p \leq 0.05$ or $p \leq 0.01$) in the incidences of scabbing in the 1 and 3 mg/kg/day dosage groups were considered unrelated to the test substance because they were not dosage dependent. The significantly reduced ($p \leq 0.01$) incidences of localized alopecia (total and limbs) in the 1, 3, 10 and 30 mg/kg/day dosage groups were related to the increased incidence of this observation in the vehicle control group and were not test substance related.

## A.2. Body Weights and Body Weight Changes - P Generation Male Rats (Figure 1; Summaries - Tables B2 and B3; Individual Data - Table B14)

Body weight gains for the entire dosage period before cohabitation (DSs 1 to 70) were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 3, 10 and 30 mg/kg/day dosage groups. Within this period, body weight gains were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group at almost all tabulated intervals before the cohabitation period, in the 10 mg/kg/day dosage group on DSs 8 to15, 29 to 36, 43 to 50 and 57 to 64, and in the 3 mg/kg/day dosage group on DSs 29 to 36 and 43 to 50. As a result, body weight gains for the entire dosage period (DSs 1 to 106 and DS 1 to termination) were significantly reduced ($p \leq 0.01$) in the 3, 10 and 30 mg/kg/day dosage groups. Body weight gain was significantly reduced ($p \leq 0.05$) in the 3 mg/kg/day dosage group on DSs 85 to 92.

Body weights were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group on DS 8 through termination, in the 10 mg/kg/day dosage group on DS 15 through termination and in the 3 mg/kg/day dosage group on DS 50 through termination. Body weight gain was significantly increased ($p \leq 0.05$) in the 3 mg/kg/day dosage group on DSs 1 to 8 but this increase was considered unrelated to the test substance because it did not persist.

Body weights and body weight gains were unaffected by the 1 mg/kg/day dosage of the test substance.

## A.3. Absolute (g/day) and Relative (g/kg/day) Feed Consumption - P Generation Male Rats (Summaries - Tables B4 and B5; Individual Data - Table B15)

Absolute (g/day) feed consumption values were significantly reduced ($p \leq 0.01$) in the 30 mg/kg/day dosage group for the entire dosage period before cohabitation (DSs 1 to 70) and the entire study period (DSs 1 to 106) and at most tabulated intervals within these periods. Relative (g/kg/day) feed consumption values were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 3, 10 and 30 mg/kg/day dosage groups for the entire dosage period before cohabitation (DSs 1 to 70) and the entire study period (DSs 1 to 106). Within these periods, relative (g/kg/day) feed consumption values were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group at all tabulated intervals after DS 8, in the 10 mg/kg/day dosage group at all tabulated intervals after DS 15 and in the 3 mg/kg/day dosage group on DSs 29 to 36 and all tabulated intervals after DS 50. The relative (g/kg/day) feed consumption value was significantly reduced ($p \leq 0.01$) on DSs 1 to 8 in the 30 mg/kg/day dosage group.

Absolute and relative feed consumption were unaffected by the 1 mg/kg/day dosage of the test substance.

### A.4. Mating and Fertility - P Generation Male Rats (Summary - Table B6; Individual Data - Table B16)

All mating and fertility parameters (numbers of days to inseminate, rats that mated, fertility index, rats with confirmed mating dates during the first and second week of cohabitation and rats pregnant per rats in cohabitation) were unaffected by dosages of the test substance as high as 30 mg/kg/day. The significant reduction ($p \leq 0.05$) in the number of days in cohabitation in the 1 mg/kg/day dosage group was considered unrelated to the test substance because it was not dosage dependent.

### A.5. Necropsy and Histopathology Observations - P Generation Male Rats (Summary - Table B7; Individual Data - Table B17; Histopathology APPENDIX K)

All necropsy observations were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent and/or 2) the observation occurred in only one or two male rats in any dosage group. These observations included small and flaccid testes and/or epididymides, large or red testes, slight or moderate dilation of the renal pelvis, dark red areas on the lung lobes and pale and tan areas on the liver. All male rats with gross lesions of the testes and/or epididymides impregnated the cohort female.

No treatment-related microscopic changes were observed in the reproductive organs of any of the 10 male rats in the P generation selected for histopathologic evaluation that had been given up to 30 mg/kg/day of the test substance. A treatment-related microscopic change was observed in the adrenal glands of 2/10 and 7/10 male rats of the 10 and 30 mg/kg/day dosage groups. This change consisted of increased thickness and prominence of the zona glomerulosa due to cytoplasmic hypertrophy and vacuolation of the cells of the adrenal cortex. All other microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment. There were a few microscopic changes observed in rats designated as "reduced fertility", but these changes occurred spontaneously and were of the type that occur spontaneously in male rats of the age and strain and were not compound-related.

### A.6. Terminal Body Weights and Organ Weights and Ratios (%) of Organ Weight to Terminal Body Weight and Brain Weight - P Generation Male Rats (Summaries - Tables B8 through B10; Individual Data - Tables B18 and B19)

Terminal body weights were significantly reduced ($p \leq 0.01$) in the 3, 10 and 30 mg/kg/day dosage groups. Absolute weights of the left epididymis, left cauda epididymis, seminal vesicles with and without fluid, right epididymis, prostate, pituitary, left and right adrenals, spleen and thymus were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group. The absolute weight of the seminal vesicles without fluid was significantly reduced ($p \leq 0.05$) in the 10 mg/kg/day dosage group. The absolute weight of the liver was significantly increased ($p \leq 0.01$) in the 1, 3, 10 and 30 mg/kg/day

dosage groups. Weights of the left and right kidneys were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 1, 3 and 10 mg/kg/day dosage groups, while these weights were significantly reduced ($p \leq 0.5$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group. The weight of the pituitary was significantly reduced ($p \leq 0.05$) in the 3 mg/kg/day dosage group but this reduction was not considered related to the test substance because the reduction was not dosage dependent.

The ratios of the organ weight to the terminal body weight were significantly increased ($p \leq 0.01$) in the 10 and 30 mg/kg/day dosage groups for the left epididymis, left cauda epididymis (30 mg/kg/day only), left testis, left testis minus tunica albuginea, seminal vesicles with and without fluid, right epididymis and right testis. The ratio of the seminal vesicles with fluid to the terminal body weight was also significantly increased ($p \leq 0.05$) in the 3 mg/kg/day dosage group. The ratio of the brain weight to the terminal body weight was significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 3, 10 and 30 mg/kg/day dosage groups. The ratios of the liver and left and right kidney weights to the terminal body weight were significantly increased ($p \leq 0.01$) in the 1, 3, 10 and 30 mg/kg/day dosage groups. The ratio of the left adrenal weight to the terminal body weight was significantly increased ($p \leq 0.05$) in the 30 mg/kg/day dosage group.

Ratios of the organ weight to the brain weight were significantly reduced ($p \leq 0.01$) in the 30 mg/kg/day dosage group for the left epididymis, left cauda epididymis, right epididymis, prostate, pituitary, spleen and thymus. The ratio of the pituitary weight to the brain weight was significantly reduced ($p \leq 0.05$) in the 3 mg/kg/day dosage group. The ratios of the liver weight to the brain weight were significantly increased ($p \leq 0.01$) in the 1, 3, 10 and 30 mg/kg/day dosage groups. The ratios of the left and right kidney weights to the brain weight were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 1, 3 and 10 mg/kg/day dosage groups while the ratio of the left kidney weight to the brain weight was significantly reduced ($p \leq 0.05$) in the 30 mg/kg/day dosage group.

### A.7. Sperm Evaluation (Summaries - Tables B11 and B12; Individual Data - Tables B20 and B21)

All sperm parameters evaluated were unaffected by dosages of the test substance as high as 30 mg/kg/day. Values for percent motile sperm, sperm density and spermatid density were comparable among the five dosage groups and did not significantly differ. The significant reduction ($p \leq 0.05$) in the number of nonmotile sperm in the 10 mg/kg/day dosage group was considered unrelated to the test substance because it was not dosage dependent. The numbers of sperm with normal morphology and the percentages of sperm with abnormal morphology were comparable among the five dosage groups.

## B. P Generation Female Rats

### B.1. Mortality and Clinical Observations - P Generation Female Rats (Summary - Table C1; Individual Data - Table C24)

#### B.1.a. Mortality

No deaths related to the test substance occurred.

One P generation female rat in each of the 0 and 1 mg/kg/day dosage groups were moribund sacrificed. The moribund conditions of these rats were attributed to accidents resulting in a broken palate or a fractured limb, respectively. Observations in these rats are described below. All other P generation female rats survived to scheduled sacrifice.

P generation female rat 13804 in the vehicle control group was moribund sacrificed on DS 68. This rat was administered 67 daily dosages of the vehicle. Adverse clinical observations before sacrifice included chromorhinorrhea, chromodacryorrhea, swollen snout, misaligned upper incisors and broken palate on DS 68. This rat gained weight from DSs 1 to 64 and feed consumption values were unremarkable. Necropsy confirmed the clinical signs. All other tissues examined appeared normal at necropsy.

P generation female rat 13836 in the 1 mg/kg/day dosage group was moribund sacrificed on DS 59. This rat was administered 59 daily dosages of the test substance. Adverse clinical observations before sacrifice included a swollen left forelimb and paw on DSs 57 to 59 and fractured left forelimb on DS 59. This rat gained weight from DSs 1 to 57 and feed consumption values were unremarkable. Necropsy revealed a broken radius and ulna in the left forelimb. All other tissues examined appeared normal at necropsy.

P generation female rat 13822 in the vehicle control group was sacrificed on DL 8 and dam 13852 in the 1 mg/kg/day dosage group was sacrificed on DL 11. The litters from these two dams were inadvertently mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.

P generation female rat 13822 in the vehicle control group was sacrificed on DL 8. This rat was administered 101 daily dosages of the vehicle. Adverse clinical observations before sacrifice included a scab on a forelimb on DSs 15, 16 and 22 to 26. Body weight gains and feed consumption values throughout the precohabitation, gestation and lactation periods were unremarkable. All tissues examined appeared normal at necropsy. This dam delivered 12 normal pups that appeared normal at necropsy.

P generation female rat 13852 in the 1 mg/kg/day dosage group was sacrificed on DL 11. This rat was administered 102 daily dosages of the test substance. There were no adverse clinical observations before death. Body weight gains and feed consumption values throughout the precohabitation, gestation and lactation periods were unremarkable. All tissues examined appeared normal at necropsy. This dam delivered 12 pups, one pup had a mass on the forelimb on DLs 5 to 6. All pups appeared normal at necropsy.

### B.1.b. Clinical Observations

All clinical observations during the precohabitation, gestation and lactation periods were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and/or 2) the observation occurred in only one or two female rats in any dosage group. These observations included missing/broken and/or misaligned incisors, chromorhinorrhea, ungroomed coat, scabbing, chromodacryorrhea, localized alopecia (limbs, underside and head), swollen forelimb and paw, soft or liquid feces, fractured forelimb, broken palate, swollen snout, swollen ears, mass on the head or the axilla, dried red perinasal substance, dried red substance on paws, abrasion on the paw, traumatized cornea and swollen paw, eye or ear.

### B.2. Body Weights and Body Weight Changes - P Generation Female Rats (Figure 2; Summaries - Tables C2 through C7; Individual Data - Tables C25 through C27)

Body weights and body weight gains during the precohabitation, gestation and lactation periods were unaffected by dosages of the test substance as high as 30 mg/kg/day. Body weight gain was significantly reduced ($p \leq 0.05$) during the precohabitation period on days 29 to 36 of study, and body weights were significantly reduced ($p \leq 0.05$) on days 7 and 14 of gestation in the 30 mg/kg/day dosage group but these significant reductions were not considered toxicologically important because they did not persist.

### B.3. Absolute (g/day) and Relative (g/kg/day) Feed Consumption - P Generation Female Rats (Summaries - Tables C8 through C13; Individual Data - Tables C28 through C30)

Absolute (g/day) and relative (g/kg/day) feed consumption values during the precohabitation, gestation and lactation periods were unaffected by dosages of the test substance as high as 30 mg/kg/day. Absolute feed consumption values were significantly reduced ($p \leq 0.05$) during the precohabitation period on days 57 to 64 of study, and during the gestation period on days 10 to 14 and 0 to 21 in the 30 mg/kg/day dosage group but these significant reductions were not considered toxicologically important because they did not persist. The significant reduction ($p \leq 0.05$) in the absolute feed consumption value on gestation days 10 to 14 in the 1 mg/kg/day dosage group was considered unrelated to the test substance because it was not dosage dependent.

### B.4. Estrous Cycling, Mating and Fertility - P Generation Female Rats (Summary - Table C14; Individual Data - Table C31)

The average numbers of estrous stages per 21 days were comparable among the five dosage groups and did not significantly differ. Evaluation of estrous stages at sacrifice did not reveal any differences among the five dosage groups.

All mating and fertility parameters (numbers of days in cohabitation, rats that mated, fertility index, rats with confirmed mating dates during the first and second week of

cohabitation and rats pregnant per rats in cohabitation) were unaffected by dosages of the test substance as high as 30 mg/kg/day. The significant reduction ($p \leq 0.05$) in the number of days in cohabitation in the 1 mg/kg/day dosage group was considered unrelated to the test substance because it was not dosage dependent.

### B.5. Necropsy and Histopathology Observations - P Generation Female Rats (Summary - Table C15; Individual Data - Table C32; Histopathology - APPENDIX K)

All necropsy observations were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and 2) the observation occurred in only one female rat in any dosage group. These observations included marked dilation of the renal pelvis and a broken ulna and radius.

No treatment-related microscopic changes were observed in the reproductive organs of any of the 10 female rats in the P generation selected for histopathologic evaluation that had been given up to 30 mg/kg/day of the test substance. All microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment. There were a few microscopic changes observed in rats designated as "reduced fertility", but these changes occurred spontaneously and were of the type that occur spontaneously in female rats of the age and strain and were not compound-related.

### B.6. Terminal Body Weights, Organ Weights and Ratios (%) of Organ Weight to Terminal Body Weight and Brain Weight - P Generation Female Rats (Summaries - Tables C16 through C18; Individual Data - Tables C33 and C34)

Terminal body weights of the P generation female rats were comparable among the five dosage groups and did not significantly differ. The weights of the left and right kidney, the ratios of these organ weights to the terminal body weight and the ratio of the left kidney weight to the brain weight were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group. The ratios of the liver weight to the terminal body weight were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 3 and 10 mg/kg/day dosage groups.

All other organ weights (pituitary, brain, left and right adrenals, spleen, cervix, left and right ovary and uterus) and the ratios of these organ weights to the terminal body weight and the brain weight were unaffected by dosages of the test substance as high as 30 mg/kg/day.

### B.7. Natural Delivery and Litter Data - P Generation Female Rats (Summaries - Tables C19 and C20; Individual Data - Tables C35 through C38)

Pregnancy occurred in 27 to 29 rats in each dosage group. One pregnant dam (13862) in the 3 mg/kg/day dosage group did not deliver a litter by day 25 of presumed gestation. The litter consisted of one implantation site (identified at necropsy on day 25 of

gestation). Such events are relatively common in rats, and this nondosage-dependent event was unrelated to the test substance. One or more liveborn pups were delivered by every other pregnant dam assigned to natural delivery (there were 27 to 29 litters delivered in each dosage group).

Natural delivery observations were unaffected by dosages of the test substance as high as 30 mg/kg/day. Values for the numbers of dams delivering litters, the duration of gestation, averages for implantation sites per delivered litter, the gestation index (number of dams with one or more liveborn pups/number of pregnant rats), the numbers of dams with stillborn pups, dams with all pups dying, liveborn and stillborn pups, viability index, pup sex ratios and body weights were comparable among the five dosage groups and did not significantly differ.

The lactation index was 98.1% and 96.3% in the 3 and 30 mg/kg/day dosage groups, respectively. These values were significantly reduced ($p \leq 0.05$ and $p \leq 0.01$, respectively) from the control group value of 99.7%. The Testing Facility historical control average and range for this parameter is 98.8% and 94.4% to 100.0%, respectively (77 studies; 1995 to 2000). The reductions in the lactation index in the 3 and 30 mg/kg/day dosage groups were not considered treatment-related because: 1) the reduction in the 3 mg/kg/day was not dosage-dependent; 2) this effect did not occur during lactation in the F2 pups; and 3) the reduction in the 30 mg/kg/day was within the historical control range for this facility. One dam in the 30 mg/kg/day dosage group delivered one pup that died on day 1 of lactation (DL 1). The numbers of pups found dead or presumed cannibalized were significantly increased in the 3 and 30 mg/kg/day dosage groups on days 6 to 8 of lactation. These increases were not considered related to the test substance because they did not affect any other measures of pup viability (surviving pups per litter, live litter size at weighing).

Pup body weight per litter was significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 1 mg/kg/day dosage group on DL 1 and in the 30 mg/kg/day dosage group on DLs 1, 5 and 8. The pup body weight reduction in the 1 mg/kg/day dosage group on DL 1, however, was not considered treatment-related because it was not dosage-dependent.

### B.8. Clinical and Necropsy Observations - F1 Generation Litters (Summaries - Tables C21 and C22; Individual Data - Tables C39 and C40)

No clinical or necropsy observations were attributable to dosages of the test substance as high as 30 mg/kg/day because: 1) the incidences were not dosage-dependent; and 2) the observation occurred in only one or two litters. These clinical observations included cold to touch, no milk in stomach, umbilical hernia, pale, mass on limb or mouth, not nesting, scab on the back, red perianal substance, not nursing, missing or black tip of tail, traumatized cornea, rotated hindlimbs and absent tail. All male pups met the criterion (no nipples present) at nipple examination on DL 12. Necropsy observations included no milk in stomach and moderate dilation of the renal pelvis.

## B.9. Terminal Body Weights, Organ Weights and Ratios (%) of Organ Weight to Terminal Body Weight and Brain Weight - F1 Generation Litters (Summary - Table C23; Individual Data - Table C41)

Terminal body weights of the F1 generation pups were comparable among the five dosage groups and did not significantly differ. The weights of the brain, spleen and thymus and the ratios of these organ weights to the terminal body weight and brain weight were unaffected by dosages of the test substance as high as 30 mg/kg/day. The significant reduction ($p \leq 0.05$) in the ratio of the thymus weight to the terminal body weight in the 3 mg/kg/day dosage group was unrelated to the test substance because the value was not dosage dependent.

## B.10. PFOA Serum Levels (ug/mL) Data Summary (APPENDIX I)

| | Gender/ Timepoint | PFOA Concentration Average ± SD |
|---|---|---|
| Group 1<br>0 mg/kg/day | Female<br>Lactation Day 22 | Less than LOQ (0.00528)<br>N = 3 |
| Group 1<br>0 mg/kg/day | Male<br>End of Cohabitation | 0.0344 ± 0.0148<br>N = 3 |
| Group 4<br>10 mg/kg/day | Female<br>Lactation Day 22 | 0.37 ± 0.0805<br>N = 10 |
| Group 4<br>10 mg/kg/day | Male<br>End of Cohabitation | 51.1 ± 9.30<br>N = 10 |
| Group 5<br>30 mg/kg/day | Female<br>Lactation Day 22 | 1.02 ± 0.425<br>N = 10 |
| Group 5<br>30 mg/kg/day | Male<br>End of Cohabitation | 45.3 ± 12.6<br>N = 10 |

LOQ = Limit of Quantitation

Low levels of PFOA were detected in the sera of the control male rats. In general, PFOA levels found in sera of the female rats increased from 10 mg/kg/day dosage group to the 30 mg/kg/day dosage group. PFOA levels found in sera of the male rats remained the same between the 10.0 mg/kg/day dosage group and the 30 mg/kg/day dosage group.

# IV. RESULTS - F1 GENERATION RATS

## A. F1 Generation Male Rats

### A.1. Mortality and Clinical Observations - F1 Generation Male Rats (Summary - Table D1; Individual Data - Table D14)

#### A.1.a. Mortality

Three, three, three, two and seven F1 generation male rats in the 0, 1, 3, 10 and 30 mg/kg/day dosage groups were moribund sacrificed or found dead. The increased incidence of mortality in the 30 mg/kg/day dosage group was considered treatment-related. Observations for these rats are described below. All other F1 generation male rats survived to scheduled sacrifice.

**0 mg/kg/day dosage group**

Rat 1024 was found dead on postweaning day (DP) 25, approximately one hour after the 25th daily dosage. There were no adverse clinical observations before death. This rat was one of the smallest in this group at weaning, weighing only 30 g. This rat gained weight on DPs 1 to 22. Feed consumption values were comparable to other rats in the dosage group. Necropsy revealed all lobes of the lungs to be mottled and dark red; all other tissues appeared normal. The death of this rat was considered to be due to an intubation accident.

Rat 1029 was moribund sacrificed on DP 4, after the 4th daily dosage. Clinical observations before death included chromorhinorrhea on DPs 2 through 4 and decreased motor activity and cold to touch on DP 4. This rat weighed only 31 g at weaning. All tissues examined appeared normal at necropsy. The moribund condition was attributed to a failure to thrive postweaning.

Rat 1039 was found dead on DP 42, approximately 33 minutes after the 42nd daily dosage. The only adverse clinical observation before death was vocalization on DP 34. Body weights and feed consumption were comparable to other control group male rats. All tissues examined appeared normal at necropsy. The death of this rat was considered to be due to an intubation accident because death occurred immediately after administration without any adverse clinical observations.

**1 mg/kg/day dosage group**

Rat 1064 was found dead on the morning of DP 6. The rat was administered five daily dosages. Clinical observations before death included chromorhinorrhea and urine-stained abdominal fur on DP 5. This rat weighed 37 g at weaning. All tissues examined appeared normal at necropsy. No cause of death could be determined.

Rat 1087 was found dead on DP 45 before administration of the 45th daily dosage. There were no adverse clinical observations before death. Body weights and feed consumption were comparable to other male rats in this dosage group. All tissues examined appeared normal at necropsy. No cause of death could be determined.

Rat 1104 was found dead on DP 2 before administration of the 2nd daily dosage. Clinical observations before death included decreased motor activity, cold to touch and emaciation on DP 1. This rat was one of the smallest in this group at weaning, weighing only 23 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

**3 mg/kg/day dosage group**

Rat 1121 was found dead on DP 5 before administration of the 5th daily dosage. There were no adverse clinical observations observed before death. This rat weighed 35 g at weaning. All tissues examined appeared normal at necropsy. No cause of death could be determined.

Rat 1130 was found dead on DP 2 before administration of the 2nd daily dosage. There were no adverse clinical observations before death. This rat was one of the smallest in this group at weaning, weighing only 24 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1140 was found dead on DP 9 before administration of the 9th daily dosage. The only adverse clinical observation before death was emaciation on DP 3. This rat weighed only 37 g at weaning and 55 g on DP 8. Feed consumption on DPs 1 to 8 was reduced as compared to other rats in this group. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

**10 mg/kg/day dosage group**

Rat 1200 was moribund sacrificed on DP 40 before administration of the 40th daily dosage. Clinical observations before death included chromodacryorrhea on DP 24, dehydration on DPs 24 to 40, abdominal distention on DPs 25 to 40, urine-stained abdominal fur on DPs 29 to 32 and 39 to 40, and emaciation and cold to touch on DPs 29 to 40. This rat was eating and gaining weight through the first three weeks of dosage administration and then lost body weight over the next two weeks. Feed consumption was reduced on DPs 29 to 36. Necropsy revealed the intestines distended with gas, a small (0.02 g) thymus and numerous ulcerations (pinpoint to 0.1 cm in diameter) in one cardiac region of the stomach and five ulcerations (pinpoint) in a second cardiac region of the stomach; all other tissues examined appeared normal.

Rat 1210 was found dead on DP 4 before administration of the 4th daily dosage. Clinical observations before death included decreased motor activity, cold to touch and emaciation on DP 3. This rat weighed 41 g at weaning. All tissues examined appeared normal at necropsy. No cause of death could be determined.

**30 mg/kg/day dosage group**

Rat 1260 was found dead on the morning of DP 4. The rat was administered three daily dosages. Clinical observations before death included decreased motor activity, cold to touch and urine-stained abdominal fur on DP 3. This rat was one of the smallest in this group at weaning, weighing only 24 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1263 was found dead on the morning of DP 2. The rat was administered one daily dosage. Clinical observations before death included decreased motor activity, corneal opacity, emaciation and cold to touch on DP 1. This rat was one of the smallest in this group at weaning, weighing only 25 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1264 was found dead on the morning of DP 2. The rat was administered one daily dosage. Clinical observations before death included decreased motor activity, corneal opacity, emaciation and cold to touch on DP 1. This rat was one of the smallest in this group at weaning, weighing only 24 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1275 was moribund sacrificed on DP 39 before administration of the 39th daily dosage. Clinical observations before death included chromorhinorrhea on DPs 26 to 33, dehydration on DPs 26 to 39, emaciation on DPs 29 to 39, decreased motor activity on DPs 32 to 39, urine-stained abdominal fur on DPs 32 to 39, cold to touch on DPs 33 to 39 and chromodacryorrhea on DP 39. This rat was eating and gaining weight through the first three weeks of dosage administration and then lost body weight over the next two weeks. Feed consumption was reduced on DPs 29 to 36. Necropsy revealed numerous tan areas (pinpoint to 0.1 cm) on the median lobe of the liver and a small (0.04 g) spleen; all other tissues appeared normal.

Rat 1277 was found dead on the morning of DP 4. The rat was administered three daily dosages. Clinical observations before death included chromorhinorrhea on DPs 2 and 3 and decreased motor activity, cold to touch, emaciation and urine-stained abdominal fur on DP 3. This rat was one of the smallest in this group at weaning, weighing only 25 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1280 was found dead on DP 3 before administration of the 3rd daily dosage. The only adverse clinical observation before death was chromorhinorrhea on DP 2. This rat weighed 34 g at weaning. All tissues examined appeared normal at necropsy. No cause of death could be determined.

Rat 1296 was found dead on DP 107 before administration of the 107th daily dosage. Clinical observations before death included rales on DP 100, chromorhinorrhea on DPs 100 to 101, chromodacryorrhea and misaligned incisors on DPs 100 to 106, emaciation on DPs 103 to 106 and urine-stained abdominal fur on DPs 104 to 106. This rat gained weight similar to other rats in this group up to DP 99 after which it lost 130 g in body weight over the next week. Feed consumption values were unremarkable up to DP 70. All tissues examined appeared normal at necropsy. No cause of death could be determined.

### A.1.b. Clinical Observations

The incidences of annular constriction of the tail of male F1 generation rats were increased in the 1, 3, 10 and 30 mg/kg/day dosage groups, reaching statistical significance ($p \leq 0.05$ or $p \leq 0.01$) in the 1, 10 and 30 mg/kg/day dosage groups. The number of male rats observed to be emaciated was significantly increased ($p \leq 0.05$ or

$p \leq 0.01$) in the 10 and 30 mg/kg/day dosage groups, and the numbers of male rats with urine-stained abdominal fur, decreased motor activity and abdominal distention were significantly increased ($p \leq 0.01$) in the 30 mg/kg/day dosage group. The incidence of the observation of cold to touch was increased, albeit not significantly, in the 30 mg/kg/day dosage group.

All other clinical observations were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and/or 2) the observation occurred in only one to three male rats in any dosage group. These observations included chromorhinorrhea, chromodacryorrhea, missing/broken and/or misaligned incisors, scab located on the neck, head, back, mouth or ear, soft or liquid feces, localized alopecia on the limbs, back or head, corneal opacity, rales, dehydration, lacrimation, swollen eye, ears or snout, red substance on the penis, excess salivation, dried and red perinasal substance, vocalization, tip of tail missing or black, ulceration on the back, red perioral substance, ptosis, enophthalmos, abrasion on the head and enlarged eye.

### A.2. Body Weights and Body Weight Changes - F1 Generation Male Rats (Figure 3; Summaries - Tables D2 and D3; Individual Data - Table D15)

Body weights and body weight gains were reduced for the F1 generation male rats before and after the cohabitation period at the 1, 3, 10 and/or 30 mg/kg/day dosages of the test substance, as compared to the control group.

Body weight gains for the entire dosage period (DPs 1 to 113) were significantly reduced ($p \leq 0.01$) in a dosage-dependent manner in the 1, 3, 10 and 30 mg/kg/day dosage groups. Body weight gains were also significantly reduced ($p \leq 0.01$) in the 10 and 30 mg/kg/day dosage group for the entire precohabitation period (DP 1 to precohabitation).

Within these periods, body weight gains were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 1 and 3 mg/kg/day dosage groups on DPs 43 to 50, in the 3 mg/kg/day dosage group on DPs 57 to 64 and in the 1 mg/kg/day dosage group alone on DPs 15 to 22. Body weight gains in the 10 and 30 mg/kg/day dosage groups were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DPs 8 to 15, 22 to 29, 29 to 36, 43 to 50 and 50 to 57. Body weight gains in the 30 mg/kg/day dosage group were also significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DPs 1 to 8, 15 to 22, 36 to 43, 57 to 64 and 64 to 70.
Body weights were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DPs 50, 57, 64, 70, 99, 106 and 113 in the 1 mg/kg/day dosage group, on DPs 106 and 113 in the 3 mg/kg/day dosage group and at all weekly intervals after DP 36 in the 10 mg/kg/day dosage group and DP 8 in the 30 mg/kg/day dosage group.

### A.3 Absolute (g/day) and Relative (g/kg/day) Feed Consumption - F1 Generation Male Rats (Summaries - Tables D4 and D5; Individual Data - Table D16)

Absolute (g/day) feed consumption values for the F1 generation male rats were significantly reduced ($p \leq 0.01$) and relative (g/kg/day) feed consumption values were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) for the entire precohabitation period (DPs 1 to 70) by dosages of APFO of 10 (absolute only) and 30 mg/kg/day.

Absolute feed consumption values for the 30 mg/kg/day dosage group were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DPs 1 to 8, 8 to 15, 15 to 22, 22 to 29, 29 to 36, 43 to 50 and 50 to 57. Relative feed consumption values were significantly reduced ($p \leq 0.05$) in the 30 mg/kg/day dosage group on DPs 1 to 8. Relative feed consumption values were significantly increased ($p \leq 0.05$) in the 10 mg/kg/day dosage group on DPs 29 to 36 and significantly increased ($p \leq 0.01$) in the 30 mg/kg/day dosage group on DPs 22 to 29, 29 to 36, 36 to 43, 43 to 50, 50 to 57, 57 to 64 and 64 to 70. Relative feed consumption values were significantly increased ($p \leq 0.01$) in the 10 and 30 mg/kg/day dosage groups on DPs 99 to 106, 106 to 113 and 99 to 113.

The significant reduction ($p \leq 0.05$ or $p \leq 0.01$) in the absolute feed consumption value on DPs 22 to 29, 29 to 36, 43 to 50 and 1 to 70 in the 1 mg/kg/day dosage group were considered unrelated to the test substance because they were not dosage dependent.

### A.4. Sexual Maturation - F1 Generation Male Rats (Summary - Table D6; Individual Data - Table D17)

Preputial separation of F1 generation male rats was slightly delayed (approximately three and a half days later than the control group value) in the 30 mg/kg/day dosage group, compared to the control group. The Testing Facility historical control average and range for this parameter is 46.1 days and 43.9 to 47.7 days, respectively (42 studies; 1995 to 2000). The average day when preputial separation was evident in the 30 mg/kg/day dosage group (52.2 days of age) significantly differed ($p \leq 0.01$) from the control group value (48.5 days of age). When this observation in the 30 mg/kg/day dosage group was covaried with the significantly reduced ($p \leq 0.01$) body weight at time of acquisition, to determine if the significantly reduced body weights were a factor, the difference was still significant, but at the $p \leq 0.05$ level. When this observation in the 30 mg/kg/day dosage group was covaried with gestational age at time of acquisition to determine if this group was younger and more immature than the control group, there was no significant difference in sexual maturation.

### A.5. Mating and Fertility - F1 Generation Male Rats (Summary - Table D7; Individual Data - Table D18)

Dosages of the test substance as high as 30 mg/kg/day did not affect any mating and fertility parameters evaluated in the F1 generation male rats. Values for the fertility and pregnancy indices (number of pregnancies per number of rats that mated and rats in cohabitation, respectively), the number of days to inseminate, the number of rats that mated and the number of rats with confirmed mating dates during the first week of cohabitation were comparable among the five dosage groups. Of the male rats assigned to cohabitation, 93.3%, 96.6%, 93.3%, 93.3% and 96.7% impregnated the cohort female rat in the five dosage groups, respectively.

### A.6. Necropsy Observations - F1 Generation Male Rats (Summary - Table D8 Individual Data - Table D19)

The number of F1 generation males that appeared normal at necropsy was significantly reduced ($p \leq 0.01$) in the 10 and 30 mg/kg/day dosage groups, compared to the control group.

Tan areas occurred in the left lateral and/or median lobes of the liver in 6*, 10** and 9** male rats in the 3, 10 and 30 mg/kg/day dosage groups, respectively. One of these rats in the 30 mg/kg/day dosage group also had a small spleen. One 30 mg/kg/day dosage group rat had an enlarged liver. Moderate to slight dilation of the pelvis of one or both kidneys occurred in 4** and 1 rats in the 10 and 30 mg/kg/day dosage groups, respectively. A tan area in the parenchyma of the spleen occurred in one 10 mg/kg/day dosage group rat.

All other necropsy observations were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and 2) the observation occurred in only one male rat in any dosage group. These observations included small prostate for one 1 mg/kg/day dosage group rat, small and flaccid left testis and small left epididymides for another 1 mg/kg/day dosage group rat, large left testis for one 3 mg/kg/day dosage group rat, ulceration of the cardiac region of the stomach, intestines distended with gas and small thymus for one rat that was moribund sacrificed in the 10 mg/kg/day dosage group. Mottled dark red lung lobes occurred in one 0 mg/kg/day dosage group rat that was found dead.

### A.7. Terminal Body Weights, Organ Weights and Ratios (%) of Organ Weights to Terminal Body Weight and Brain Weight - F1 Generation Male Rats (Summaries - Tables D9 through D11; Individual Data - Tables D20 and D21)

Terminal body weights of the F1 generation male rats were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in a dosage-dependent manner in the 1, 3, 10 and 30 mg/kg/day dosage groups.

The absolute weights of the liver were significantly increased ($p \leq 0.01$) and the absolute weights of the spleen were significantly decreased ($p \leq 0.05$ or $p \leq 0.01$) in the 1 mg/kg/day and higher dosage groups, compared to the control group values. The absolute weights of the left and/or right kidneys were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 1 and 3 mg/kg/day dosage groups and significantly decreased ($p \leq 0.01$) in the 30 mg/kg/day dosage group, compared to control group values. The absolute weight of the thymus was also significantly decreased ($p \leq 0.01$) in the 10 and 30 mg/kg/day dosage groups. The absolute weight of the prostate, brain and left adrenal gland were significantly decreased ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group.

The ratios of the weights of the seminal vesicles, with and without fluid, liver and left and right kidneys to the terminal body weights were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 1 mg/kg/day and higher dosage groups, compared to the control group values. The ratios of the weights of the left testis, with and without the tunica albuginea and the right testis to the terminal body weight, were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 3 mg/kg/day and higher dosage groups. The ratios of the weights of the left epididymis, left cauda epididymis, right epididymis and brain to the terminal body weight were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 10 mg/kg/day and higher dosage groups.

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* Significantly different from the Group I value ($p \leq 0.05$).

** Significantly different from the Group I value ($p \leq 0.01$).

The ratios of the weight of the seminal vesicles with fluid to the brain weight were increased in the 1 mg/kg/day and higher dosage groups, compared to the control group values. These ratios were significantly increased ($p \leq 0.05$) in the 1 and 10 mg/kg/day dosage groups. The ratios of the liver weight to the brain weight were significantly increased ($p \leq 0.01$) in the 1 mg/kg/day and higher dosage groups, and the ratios of the left and right kidney weights to the brain weight were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 1, 3 and 10 mg/kg/day dosage groups. The ratios of the spleen weight to the brain weight were significantly decreased ($p \leq 0.05$ or $p \leq 0.01$) in the 1 mg/kg/day and higher dosage groups, and the ratios of the thymus weight to the brain weight were significantly decreased ($p \leq 0.05$ or $p \leq 0.01$) in the 10 and 30 mg/kg/day dosage groups. The ratios of the left and right testes weight to the brain weight were increased in the 3 mg/kg/day and higher dosage groups. These ratios were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 10 mg/kg/day (right testis only) and 30 mg/kg/day dosage groups.

## A.8. Histopathology (APPENDIX K)

No treatment-related microscopic changes were observed in the reproductive organs of any of the 10 male rats in the F1 generation selected for histopathologic evaluation that had been given up to 30 mg/kg/day of the test substance. A treatment-related microscopic change was observed in the adrenal glands of 7/10 male rats of the 30 mg/kg/day dosage group. This change consisted of increased thickness and prominence of the zona glomerulosa due to cytoplasmic hypertrophy and vacuolation of the cells of the adrenal cortex. Treatment-related microscopic changes also were observed in the liver sections of the F1 generation male rats in the 3, 10 and 30 mg/kg/day dosage groups. Microscopically, these gross changes were due to diffuse hypertrophy of the hepatocytes. Hepatocytes in all areas (diffuse) of the hepatic lobules were enlarged due to an increased dense, eosinophilic cytoplasm. A very low incidences of single-cell or focal/multifocal hepatocellular necrosis also was observed in a few rats of these groups. Hepatic tissue was available for micropic examination only from rats with gross observations in the liver. All other microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment. There were a few microscopic changes observed in rats designated as "reduced fertility", but these changes occurred spontaneously and were of the type that occur spontaneously in male rats of the age and strain and were not compound-related.

## A.9. Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count - F1 Generation Male Rats (Summary - Table D12; Individual Data - Table D22)

### A.9.a. Cauda Epididymal Sperm Motility

No statistically significant or dosage-dependent differences occurred in the numbers of motile sperm, percentage of motile sperm, static count (nonmotile sperm), total count or sperm density.

### A.9.b. Cauda Epididymal Spermatid Count and Concentration

Cauda epididymal spermatid count and density were unaffected by dosages of the test substance as high as 30 mg/kg/day. No statistically significant differences occurred.

### A.10. Cauda Epididymal Sperm Morphology - F1 Generation Male Rats (Summary - Table D13; Individual Data - Table D23)

Sperm morphology was unaffected by dosages of the test substance as high as 30 mg/kg/day. The number of sperm with a broken flagellum was significantly reduced ($p \leq 0.05$) in the 1 mg/kg/day dosage group, compared to the control group. This finding was not considered treatment-related because it was not dosage-dependent.

## B. F1 Generation Female Rats

### B.1. Mortality and Clinical Observations - F1 Generation Female Rats (Summary - Table E1; Individual Data - Table E26)

### B.1.a. Mortality

Two, one, one and six** F1 generation female rats in the 1, 3, 10 and 30 mg/kg/day dosage groups were found dead during the post-lactation period. All the deaths, except one in the 1 mg/kg/day dosage group, occurred postweaning days 2 to 8. This increased incidence of mortality in the 30 mg/kg/day dosage group was considered treatment-related and may have been related to their small size (5 of the 7 found dead pups were 28 g or less at weaning). Observations for these rats are described below. All other F1 generation female rats survived to scheduled sacrifice.

**1 mg/kg/day dosage group**

Rat 1365 was found dead on postweaning day (DP) 4 before administration of the fourth daily dosage. Clinical observations before death included tip of tail missing on DPs 1 to 3 and decreased motor activity, chromorhinorrhea and cold to touch on DP 3. This rat was one of the smallest in this group at weaning, weighing only 31 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1373 was found dead on DP 51 before administration of the 51st daily dosage. Clinical observations before death included chromorhinorrhea on DPs 28 to 35, dehydration on DPs 29 to 50, urine-stained abdominal fur on DPs 32 to 50, chromodacryorrhea on DP 35, emaciation on DPs 35 to 50 and decreased motor activity on DPs 45 to 50. This rat lost weight after DP 29. Feed consumption values were unremarkable. Necropsy revealed distended stomach and intestines and a depressed white area on the dorsal surface of the right apical lobe of the lungs. All other tissues appeared normal. No cause of death could be determined.

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** Significantly different from the control group value ($p \leq 0.01$).

**3 mg/kg/day dosage group**

Rat 1432 was found dead on the morning of DP 7 before administration of the 7th daily dosage. Clinical observations before death included urine-stained abdominal fur and chromorhinorrhea on DPs 4 to 6 and emaciation on DP 6. This rat was one of the smallest in this group at weaning, weighing 31 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

**10 mg/kg/day dosage group**

Rat 1484 was found dead on the morning of DP 3 before administration of the third daily dosage. Clinical observations before death included urine-stained abdominal fur on DPs 1 and 2 and decreased motor activity, cold to touch and labored breathing on DP 2. This rat was one of the smallest in this group at weaning, weighing only 28 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

**30 mg/kg/day dosage group**

Rat 1549 was found dead on DP 8 before administration of the eighth daily dosage. Clinical observations before death included decreased motor activity on DPs 2 and 3, chromorhinorrhea on DPs 2 to 7, cold to touch on DPs 3 to 7 and urine-stained abdominal fur on DPs 5 to 7. This rat was one of the smallest in this group at weaning, weighing only 28 g and feed consumption was severely reduced on DPs 1 to 8. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1559 was found dead on DP 6 before administration of the sixth daily dosage. Clinical observations before death included urine-stained abdominal fur on DPs 3 to 5 and cold to touch and emaciation on DP 5. This rat was one of the smallest in this group at weaning, weighing only 22 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1562 was found dead on the morning of DP 2. The rat was not administered the test substance. No clinical observations, body weight or feed consumption values were recorded. All tissues examined appeared normal at necropsy. No cause of death could be determined.

Rat 1563 was found dead on the morning of DP 2. The rat was not administered the test substance. No clinical observations, body weight or feed consumption values were recorded. All tissues examined appeared normal at necropsy. No cause of death could be determined.

Rat 1574 was found dead on DP 3, approximately one hour after the third daily dosage. Clinical observations before death included cold to touch and urine-stained abdominal fur on DPs 2 and 3. This rat was one of the smallest in this group at weaning, weighing only 23 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

Rat 1575 was found dead on the morning of DP 3 before administration of the third daily dosage. There were no adverse clinical observations before death. This rat was one of the smallest in this group at weaning, weighing only 23 g. All tissues examined appeared normal at necropsy. This death was attributed to a failure to thrive postweaning.

### B.1.b. Clinical Observations

All clinical observations during the precohabitation, gestation and lactation periods were considered unrelated to the test substance because: 1) the incidences were increased to statistically significant levels; 2) the incidences were not dosage-dependent; and/or 3) the observation occurred in only one to two female rats in any dosage group. These observations included abdominal distention, urine-stained abdominal fur, cold to touch, chromorhinorrhea, rales, tip of tail missing, scab on the head or back, localized alopecia on the limbs, neck or head, decreased motor activity, emaciation, bent tail, missing/broken and/or misaligned incisors, lacrimation, swollen eye, labored breathing, soft or liquid feces, chromodacryorrhea, swollen ear, dehydration, annular constriction of the tail, swollen head or snout, ptosis, mass in the right axilla and red perivaginal substance.

A significant increase ($p \leq 0.01$) in the incidence of red perivaginal substance in the 3 mg/kg/day dosage group during the lactation period was not considered treatment-related because it was not dosage-dependent.

## B.2. Body Weights and Body Weight Changes - F1 Generation Female Rats (Figure 4; Summaries - Tables E2 through E7; Individual Data - Tables E27 through E29)

### B.2.a. Precohabitation

Body weights and body weight gains during the precohabitation period were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) by 30 mg/kg/day dosages of the test substance. Body weight gain for the entire precohabitation period (DP 1 to precohabitation) was significantly reduced ($p \leq 0.05$). Within this period, body weight gains were significantly reduced ($p \leq 0.01$) on DPs 1 to 8 and 8 to 15. Body weights in this group were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DPs 8, 15, 22, 29, 50, 57 and precohabitation.

Body weights and body weight gains during the precohabitation period were unaffected by dosages of the test substance as high as 10 mg/kg/day. Body weight gains in the 1 mg/kg/day dosage group were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DPs 1 to 8 and 8 to 15 and in the 10 mg/kg/day dosage group were significantly reduced ($p \leq 0.01$) on DPs 8 to15. Body weights in the 1 mg/kg/day dosage group were also significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DPs 8, 15, 22 and 29. These reductions in the 1 and 10 mg/kg/day dosage groups were not considered treatment-related because: 1) they were not dosage-dependent; and 2) they did not persist.

### B.2.b. Gestation

Body weights during the gestation period were significantly reduced ($p \leq 0.05$) in the 30 mg/kg/day dosage group on gestation days (DGs) 0, 7, 10 and 14, compared to the control group.
Body weights and body weight gains during the gestation period were unaffected by dosages of the test substance as high as 10 mg/kg/day.

### B.2.c. Lactation

Body weights during the lactation period were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group on lactation days (DLs) 5, 8, 11 and 15, compared to the control group.

Body weights and body weight gains during the lactation period were unaffected by dosages of the test substance as high as 10 mg/kg/day.

### B.3. Absolute (g/day) and Relative (g/kg/day) Feed Consumption - F1 Generation Female Rats (Summaries - Tables E8 through E13; Individual Data - Tables E30 through E32)

Absolute (g/day) feed consumption values were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 30 mg/kg/day dosage group on DPs 1 to 8, 8 to 15 and 15 to 22 during the precohabitation period, on DGs 7 to 10 during the gestation period and on DLs 1 to 15 during the lactation period. Relative (g/kg/day) feed consumption values were comparable among the 0, 1, 3, 10 and 30 mg/kg/day dosage groups for the precohabitation, gestation and lactation periods and did not differ statistically.

Absolute and relative feed consumption values during the precohabitation, gestation and lactation periods were unaffected by dosages of the test substance as high as 10 mg/kg/day. Absolute feed consumption values were significantly reduced ($p \leq 0.01$) in the 1 mg/kg/day dosage group on DPs 1 to 8 and 8 to 15 during the precohabitation period. These significant reductions in the absolute feed consumption in the 1 mg/kg/day dosage group were considered unrelated to the test substance because they were not dosage dependent and did not persist.

### B.4. Sexual Maturation - F1 Generation Female Rats (Summary - Table E14; Individual Data - Table E33)

The 30 mg/kg/day dosage group F1 generation female rats had a small (approximately 1.7 days increase from the control group value), statistically significant ($p \leq 0.01$) delay in vaginal patency. The Testing Facility historical control average and range for this parameter is 32.1 days and 30.1 to 34.0 days, respectively (42 studies; 1995 to 2000). The average day when vaginal patency was evident in the 30 mg/kg/day dosage group (36.6 days of age) significantly differed ($p \leq 0.01$) from the control group value (34.9 days of age). When this observation in the 30 mg/kg/day dosage group was covaried with the significantly reduced ($p \leq 0.01$) body weight at time of acquisition, to determine if the significantly reduced body weights were a factor, the difference was still significant, but at the $p \leq 0.05$ level. When this observation in the 30 mg/kg/day dosage group was

covaried with gestational age at time of acquisition, to determine if this group was younger and more immature than the control group, there was no significant difference in sexual maturation.

### B.5. Estrous Cycling, Mating and Fertility - F1 Generation Female Rats (Summary - Table E15; Individual Data - Table E34)

The average numbers of estrous stages per 21 days were significantly increased ($p \leq 0.01$) in the 30 mg/kg/day dosage group (4.7 versus 5.4 stages). The Testing Facility historical control average and range for this parameter is 5.0 stages and 4.8 to 5.2 stages, respectively (7 studies; 1992 to 2002). When this observation in the 30 mg/kg/day dosage group was covaried with the day 64 body weight or age, the difference was still significant, but at the $p \leq 0.05$ level.

Evaluation of the number of rats with 6 or more consecutive days of diestrus or estrus and estrous stages at sacrifice did not reveal any differences among the five dosage groups.

All mating and fertility parameters (numbers of days in cohabitation, rats that mated, fertility index, rats with confirmed mating dates during the first week of cohabitation and rats pregnant per rats in cohabitation) were unaffected by dosages of the test substance as high as 30 mg/kg/day.

### B.6. Necropsy Observations - F1 Generation Female Rats (Summary - Table E16; Individual Data - Table E35)

All necropsy observations for the F1 generation female rats were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and 2) the observation occurred in only one female rat in any dosage group. The observations included a small spleen for a 0 mg/kg/day dosage group rat, a mass on the left lateral lobe of the liver with adhesion of the caudate lobe for a 1 mg/kg/day dosage group rat; slight dilation of the pelvis of both kidneys for a 3 mg/kg/day dosage group rat; moderate dilation of the pelvis of the right kidney, thickened urinary bladder walls and moderate dilation of both ureters with one calculi at the caudal end for a 30 mg/kg/day dosage group rat. One rat in the 1 mg/kg/day dosage group that was found dead had distended stomach and intestines with a depressed white area on the lungs, as previously described

### B.7. Terminal Body Weights, Organ Weights and Ratios (%) of Organ Weights to Terminal Body Weight and Brain Weight - F1 Generation Female Rats (Summaries - Tables E17 through E19; Individual Data - Tables E36 and E37)

Terminal body weights of the F1 generation female rats were comparable among the five dosage groups and did not differ significantly.

The absolute weight of the pituitary and the ratios of the pituitary weight to the terminal body weight and to the brain weight were significantly ($p \leq 0.05$ or $p \leq 0.01$) decreased in the 3 mg/kg/day and higher dosage groups, as compared to the control group values.

The absolute weights of the brain, liver, kidneys, adrenals, spleen, thymus, ovaries and uterus and the ratios of these organ weights to the terminal body weight and the brain weight were unaffected by dosages of the test substance as high as 30 mg/kg/day.

Primordial follicle count for ten F1 generation female rats in the vehicle control and 30 mg/kg/day dosage groups were comparable and did not significantly differ.

## B.8. Histopathology (APPENDIX K)

No treatment-related microscopic changes were observed in the reproductive organs of any of the 10 female rats in the F1 generation selected for histopathologic evaluation that had been given up to 30 mg/kg/day of the test substance. All microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be incidental and unrelated to treatment. There were a few microscopic changes observed in rats designated as "reduced fertility", but these changes occurred spontaneously and were of the type that occur spontaneously in female rats of the age and strain and were not compound-related.

## B.9. Natural Delivery and Litter Data - F1 Generation Female Rats (Summaries - Tables E20, E21 and E25 ; Individual Data - Tables E38 through E41 and E45)

Pregnancy occurred in 28 to 29 rats in each dosage group. Natural delivery observations were unaffected by dosages of the test substance as high as 30 mg/kg/day. Values for the numbers of dams delivering litters, the duration of gestation, averages for implantation sites per delivered litter, the gestation index (number of dams with one or more liveborn pups/number of pregnant rats), the numbers of dams with stillborn pups, dams with all pups dying and liveborn and stillborn pups were comparable among the five dosage groups and did not significantly differ.

The viability index (number of live pups on day 5 postweaning per number of liveborn pups on day 1 postweaning) and lactation index (number of live pups on day 22 postweaning per number of live pups on day 5 postweaning) were comparable and did not differ significantly.

The numbers of pups found dead or presumed cannibalized were significantly increased ($p \leq 0.01$) in the 3 and 10 mg/kg/day dosage groups on day 1 of lactation. These increases were not considered related to the test substance because: 1) they were not dosage-dependent; and 2) they did not affect any other measures of pup viability (surviving pups per litter, live litter size at weighing).

The number of pups surviving per litter, the percentage male pups, litter size and average pup body weight per litter were comparable and did not differ significantly on DLs 1, 5, 8, 15 or 22 for any of the dosage groups when compared to the control group. Anogenital distances measured for male and female pups on DLs 1 and 22 were comparable among the five dosage groups and did not significantly differ.

### B.10. Clinical and Necropsy Observations - F2 Generation Pups (Summaries - Tables E22 and E23 ; Individual Data - Tables E42 and E43)

No clinical or necropsy observations were attributable to maternal dosages of the test substance as high as 30 mg/kg/day because: 1) the incidences were not dosage-dependent; and 2) the observation occurred in only one or two litters. These clinical observations included cold to touch, absent tail or eye, tip of tail missing, scab on tail or back, pale in appearance, abrasion at the base of the tail, mass on the mouth, abrasion on the back or tail, emaciation, domed head, dehydration, tail bent or thread-like, no anal opening present, ungroomed coat and no milk present in the stomach. Necropsy observations were limited to no milk in stomach in pups that were found dead. In the pups examined at necropsy on DL 22, dilated kidneys occurred in the 0 mg/kg/day (1 pup in one litter), 1 mg/kg/day (1 pup in one litter) and 3 mg/kg/day (2 pups in 2 litters) dosage groups and marked dilation of the third and lateral ventricles of the brain occurred in the 10 mg/kg/day dosage group (1 pup in 1 litter).

### B.11. F2 Generation Terminal Body Weights and Selected Organ Weights and Ratios (%) of Organ Weights to Terminal Body Weights and Brain Weights - (Table E24; Individual Data - Table E44)

F2 generation rats had comparable terminal body weights on DL 22; the values did not significantly differ from the control group values.

Absolute weights of the brain, spleen and thymus and ratios of these organ weights to terminal body weight and to brain weight were comparable among the five dosage groups and did not significantly differ.

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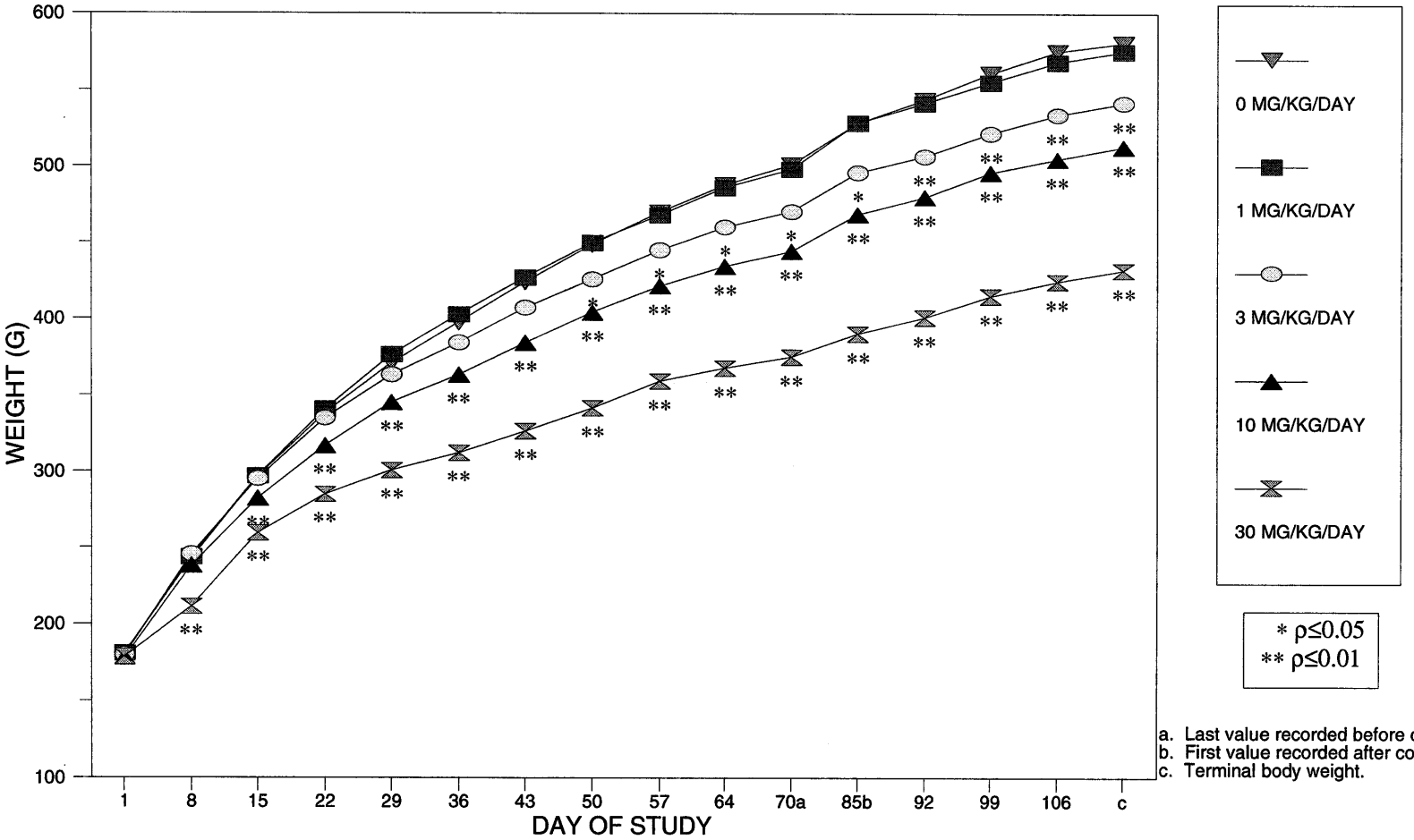
# APPENDIX A

# REPORT FIGURES

# BODY WEIGHTS

## P GENERATION MALE RATS

Figure 1

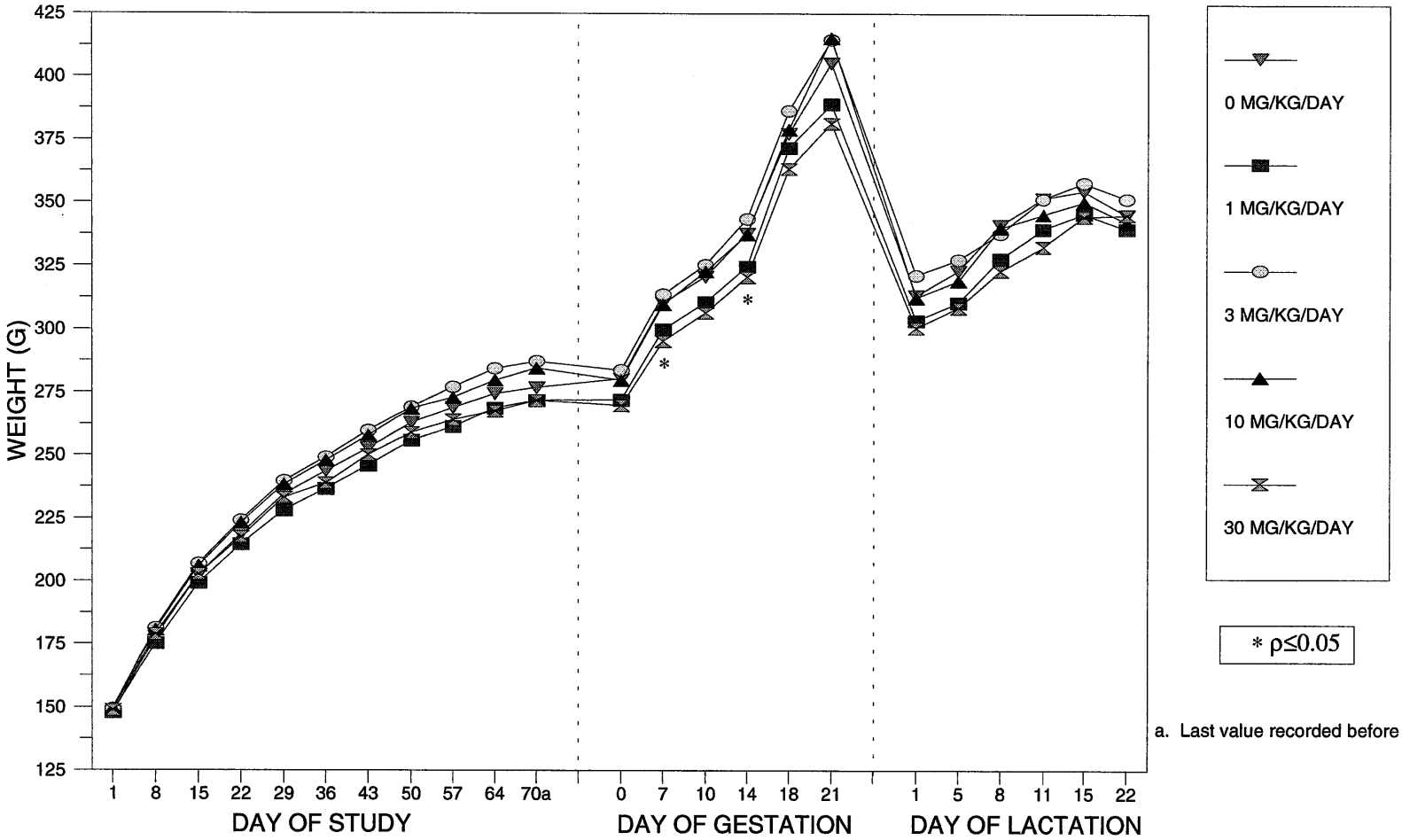



a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Terminal body weight.

# BODY WEIGHTS

## P GENERATION FEMALE RATS

Figure 2

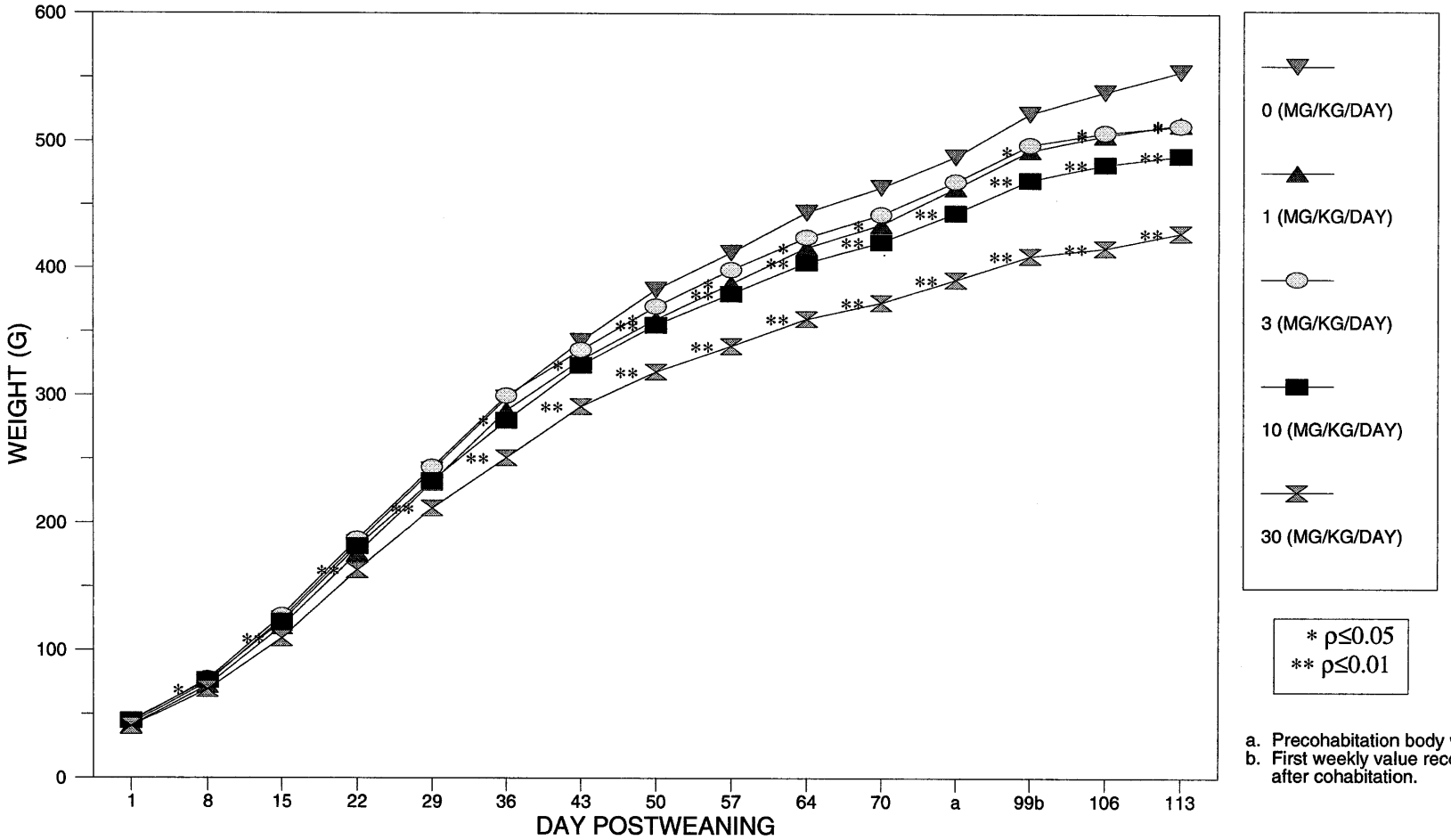



a. Last value recorded before cohabitation.

# BODY WEIGHTS

## F1 GENERATION MALE RATS

Figure 3

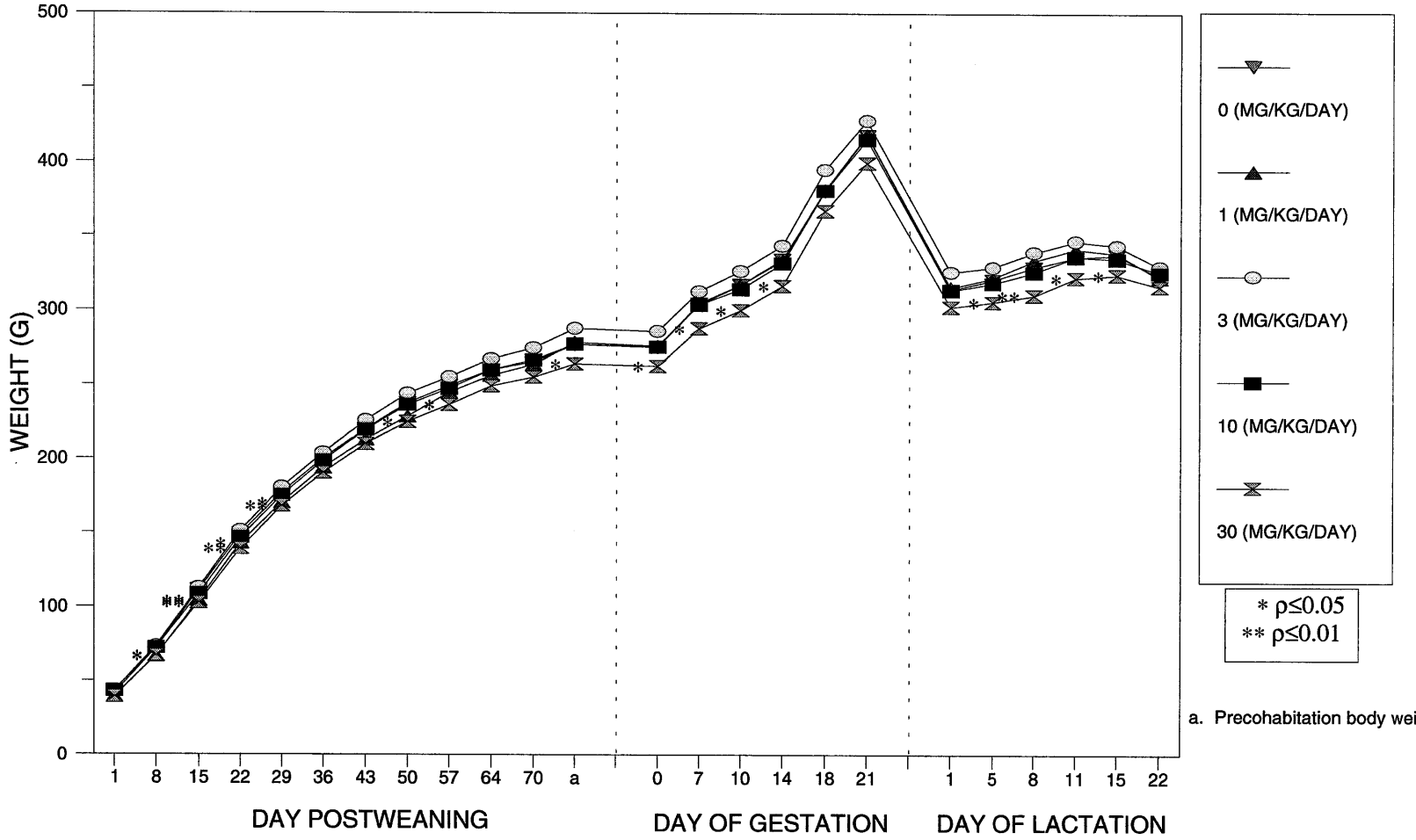



a. Precohabitation body weight.
b. First weekly value recorded after cohabitation.

# BODY WEIGHTS

## F1 GENERATION FEMALE RATS

Figure 4




a. Precohabitation body weight.

# APPENDIX B

# REPORT TABLES - P GENERATION MALE RATS

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B1 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| MAXIMUM POSSIBLE INCIDENCE | 3240/ 30 | 3240/ 30 | 3240/ 30 | 3240/ 30 | 3178/ 30 |
| MORIBUND SACRIFICED | 0 | 0 | 0 | 0 | 1a |
| CHROMORHINORRHEA | 3/ 2 | 10/ 2 | 26/ 7 | 15/ 5 | 27/ 8 |
| DEHYDRATION | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 30/ 4**a |
| SOFT OR LIQUID FECES | 17/ 7 | 12/ 8 | 3/ 2 | 11/ 3 | 4/ 3 |
| LOCALIZED ALOPECIA: TOTAL | 396/ 8 | 63/ 2** | 84/ 3** | 38/ 1** | 141/ 3** |
| LIMBS | 396/ 8 | 58/ 1** | 84/ 3** | 38/ 1** | 141/ 3** |
| HEAD | 0/ 0 | 5/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| URINE-STAINED ABDOMINAL FUR | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 13/ 3**a |
| UNGROOMED COAT | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 21/ 3** |
| EMACIATION | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 34/ 2a |
| DRIED RED OR RED PERINASAL SUBSTANCE | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 8/ 2 |
| COLD TO TOUCH | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 6/ 2a |
| INCISORS: TOTAL | 16/ 1 | 85/ 4 | 153/ 3 | 35/ 2 | 11/ 1 |
| MISSING/BROKEN | 16/ 1 | 36/ 4 | 56/ 2 | 16/ 2 | 0/ 0 |
| MISALIGNED | 0/ 0 | 53/ 2 | 120/ 2 | 19/ 1 | 11/ 1 |
| CHROMODACRYORRHEA | 0/ 0 | 35/ 2 | 124/ 2 | 21/ 1 | 5/ 1 |
| DECREASED MOTOR ACTIVITY | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1a |
| PALE EXTREMITIES | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 6/ 1 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS X RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 13732 was moribund sacrificed on day 45 of study.
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B1 (PAGE 2): CLINICAL OBSERVATIONS - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| MAXIMUM POSSIBLE INCIDENCE | 3240/ 30 | 3240/ 30 | 3240/ 30 | 3240/ 30 | 3178/ 30 |
| MORIBUND SACRIFICED | 0 | 0 | 0 | 0 | 1a |
| DRIED, RED SUBSTANCE ON FUR b | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 6/ 1 |
| NO FECES | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 2/ 1 |
| SCANT FECES | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 2/ 1 |
| RALES | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 |
| RIGHT OR BOTH EARS: SWOLLEN | 15/ 1 | 38/ 2 | 0/ 0 | 11/ 1 | 0/ 0 |
| SCAB c | 0/ 0 | 46/ 4** | 8/ 2* | 0/ 0 | 0/ 0 |
| RIGHT FORELIMB: ABRASION | 0/ 0 | 4/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| PENIS: RED SUBSTANCE | 0/ 0 | 1/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| VOCALIZATION | 1/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS X RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 13732 was moribund sacrificed on day 45 of study.
b. Located on both forepaws.
c. Located on the nose, mouth, head, right forelimb or back.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B2 (PAGE 1): BODY WEIGHTS - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | | N | 30 | 30 | 30 | 30 | 30 |
| BODY WEIGHT (G) | | | | | | | |
| DAY 1 | | MEAN±S.D. | 180.9 ± 7.3 | 180.7 ± 7.6 | 179.9 ± 6.7 | 178.4 ± 7.2 | 178.6 ± 7.2 |
| DAY 8 | | MEAN±S.D. | 242.8 ± 12.4 | 243.6 ± 10.4 | 245.7 ± 8.4 | 238.1 ± 10.4 | 211.3 ± 17.0** |
| DAY 15 | | MEAN±S.D. | 296.7 ± 15.9 | 297.1 ± 12.2 | 295.1 ± 10.7 | 282.4 ± 14.7** | 259.4 ± 16.0** |
| DAY 22 | | MEAN±S.D. | 338.2 ± 16.2 | 340.9 ± 16.8 | 334.8 ± 16.0 | 316.8 ± 22.6** | 284.9 ± 26.3** |
| DAY 29 | | MEAN±S.D. | 370.9 ± 19.0 | 376.6 ± 21.6 | 363.3 ± 23.9 | 345.2 ± 27.4** | 300.9 ± 29.9** |
| DAY 36 | | MEAN±S.D. | 397.6 ± 21.8 | 402.5 ± 26.4 | 384.3 ± 27.0 | 363.4 ± 31.9** | 312.3 ± 35.2** |
| DAY 43 | | MEAN±S.D. | 424.0 ± 25.2 | 427.0 ± 28.4 | 407.0 ± 32.6 | 384.2 ± 37.5** | 326.3 ± 45.8** |
| DAY 50 | | MEAN±S.D. | 448.7 ± 26.7 | 449.7 ± 30.5 | 425.7 ± 34.2* | 404.2 ± 39.0** | 341.7 ± 39.1** [ 29]a |
| DAY 57 | | MEAN±S.D. | 469.9 ± 28.9 | 468.0 ± 33.8 | 444.8 ± 36.9* | 421.5 ± 42.9** | 359.3 ± 44.0** [ 29]a |
| DAY 64 | | MEAN±S.D. | 487.9 ± 32.4 | 486.1 ± 37.8 | 459.9 ± 38.3* | 434.1 ± 44.9** | 367.6 ± 49.3** [ 29]a |

DAY = DAY OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B2 (PAGE 2): BODY WEIGHTS - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| INCLUDED IN ANALYSES | N | 30 | 30 | 30 | 30 | 29a |
| BODY WEIGHT (G) | | | | | | |
| DAY 70b | MEAN±S.D. | 501.1 ± 33.8 | 498.0 ± 38.8 | 470.4 ± 43.2* | 444.2 ± 46.2** | 375.0 ± 54.0** |
| DAY 85c | MEAN±S.D. | 528.3 ± 34.7 | 528.8 ± 43.2 | 495.8 ± 42.3* | 468.3 ± 49.2** | 389.9 ± 64.4** |
| DAY 92 | MEAN±S.D. | 543.8 ± 37.1 | 541.6 ± 43.1 | 506.7 ± 44.7** | 479.9 ± 52.0** | 400.9 ± 69.2** |
| DAY 99 | MEAN±S.D. | 561.1 ± 37.8 | 555.1 ± 44.2 | 521.6 ± 47.5** | 495.8 ± 53.0** | 414.6 ± 64.3** |
| DAY 106 | MEAN±S.D. | 575.5 ± 39.7 | 568.3 ± 45.2 | 533.8 ± 46.2** | 504.9 ± 54.4** | 424.3 ± 62.9** |
| TERMINAL BODY WEIGHT d | MEAN±S.D. | 580.7 ± 40.0 | 575.3 ± 47.6 | 541.7 ± 47.2** | 513.0 ± 53.9** | 431.8 ± 64.1** |

DAY = DAY OF STUDY
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
b. Last value recorded before cohabitation.
c. First value recorded after cohabitation.
d. Terminal body weights were recorded when the rats were day 106 to 109 of study.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B3 (PAGE 1): BODY WEIGHT CHANGES - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | +61.9 ± 7.3 | +63.0 ± 4.7 | +65.8 ± 4.9* | +59.7 ± 6.2 | +32.7 ± 17.0** |
| DAYS 8 - 15 | MEAN±S.D. | +53.9 ± 12.5 | +53.5 ± 8.0 | +49.4 ± 7.8 | +44.3 ± 10.0** | +48.1 ± 10.8* |
| DAYS 15 - 22 | MEAN±S.D. | +41.5 ± 6.1 | +43.8 ± 7.9 | +39.8 ± 9.5 | +34.4 ± 12.6 | +25.5 ± 17.8** |
| DAYS 22 - 29 | MEAN±S.D. | +32.7 ± 7.9 | +35.6 ± 7.8 | +28.5 ± 10.7 | +28.3 ± 8.7 | +16.0 ± 16.5** |
| DAYS 29 - 36 | MEAN±S.D. | +26.7 ± 7.0 | +26.0 ± 8.3 | +21.0 ± 6.6** | +18.3 ± 6.0** | +11.4 ± 10.5** |
| DAYS 36 - 43 | MEAN±S.D. | +26.4 ± 6.6 | +24.5 ± 5.8 | +22.7 ± 9.7 | +20.7 ± 9.2 | +14.0 ± 26.7** |
| DAYS 43 - 50 | MEAN±S.D. | +24.7 ± 5.8 | +22.7 ± 5.0 | +18.7 ± 5.2** | +20.0 ± 9.8* | +10.7 ± 16.5** [ 29]a |
| DAYS 50 - 57 | MEAN±S.D. | +21.3 ± 6.4 | +18.3 ± 8.3 | +19.1 ± 8.3 | +17.4 ± 7.8 | +17.6 ± 14.7 [ 29]a |
| DAYS 57 - 64 | MEAN±S.D. | +17.9 ± 7.1 | +18.1 ± 6.6 | +15.1 ± 7.0 | +12.6 ± 6.0* | +8.2 ± 9.6** [ 29]a |

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B3 (PAGE 2): BODY WEIGHT CHANGES - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| INCLUDED IN ANALYSES | N | 30 | 30 | 30 | 30 | 29a |
| BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 64 - 70b | MEAN±S.D. | +13.2 ± 7.4 | +11.9 ± 10.8 | +10.5 ± 10.7 | +10.1 ± 7.0 | +7.4 ± 9.8 |
| DAYS 1 - 70b | MEAN±S.D. | +320.2± 30.8 | +317.3± 37.3 | +290.5± 43.1* | +265.8± 44.5** | +196.6± 53.2** |
| DAYS 85c- 92 | MEAN±S.D. | +15.5 ± 7.4 | +12.8 ± 5.4 | +10.9 ± 6.8* | +11.6 ± 7.7 | +11.0 ± 18.4 |
| DAYS 92 - 99 | MEAN±S.D. | +17.3 ± 5.8 | +13.6 ± 5.5 | +14.9 ± 7.6 | +15.9 ± 6.7 | +13.7 ± 16.5 |
| DAYS 99 -106 | MEAN±S.D. | +14.4 ± 7.1 | +13.2 ± 6.1 | +12.3 ± 10.0 | +9.1 ± 9.2 | +9.7 ± 11.3 |
| DAYS 1 -106 | MEAN±S.D. | +394.6± 36.8 | +387.7± 43.4 | +353.9± 46.6** | +326.5± 53.1** | +246.0± 61.5** |
| DAY 1 - TERMINATION d | MEAN±S.D. | +399.8± 37.0 | +394.7± 45.7 | +361.8± 47.7** | +334.5± 52.6** | +253.4± 62.9** |

DAY(S) = DAY(S) OF STUDY
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
b. Last value recorded before cohabitation.
c. First value recorded after cohabitation.
d. Terminal body weights were recorded when the rats were day 106 to 109 of study.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B4 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 23.8 ± 1.6 | 23.9 ± 1.3 | 23.9 ± 1.2 | 23.0 ± 1.6 | 19.5 ± 3.3** [ 29]a |
| DAYS 8 - 15 | MEAN±S.D. | 26.6 ± 3.2 | 26.4 ± 1.8 | 26.1 ± 2.2 [ 28]a | 25.7 ± 2.2 | 25.1 ± 2.4 |
| DAYS 15 - 22 | MEAN±S.D. | 28.7 ± 1.6 | 28.8 ± 2.3 | 28.6 ± 2.0 | 28.9 ± 3.1 | 26.7 ± 4.6 |
| DAYS 22 - 29 | MEAN±S.D. | 28.0 ± 1.9 | 28.6 ± 2.2 | 28.2 ± 2.6 | 28.5 ± 3.2 [ 29]a | 26.0 ± 2.7** |
| DAYS 29 - 36 | MEAN±S.D. | 27.8 ± 1.9 | 28.2 ± 2.1 [ 29]a | 28.1 ± 2.6 [ 28]a | 28.4 ± 3.4 | 25.4 ± 2.6** |
| DAYS 36 - 43 | MEAN±S.D. | 28.3 ± 2.1 | 28.3 ± 2.3 | 28.4 ± 2.7 | 28.5 ± 3.4 | 25.2 ± 5.0** |
| DAYS 43 - 50 | MEAN±S.D. | 28.7 ± 1.9 [ 29]a | 28.6 ± 2.4 | 28.4 ± 2.7 [ 29]a | 28.7 ± 3.4 [ 28]a | 26.2 ± 2.5** [ 28]a,b |
| DAYS 50 - 57 | MEAN±S.D. | 29.4 ± 1.8 [ 29]a | 29.6 ± 3.0 | 29.4 ± 2.9 | 29.2 ± 3.4 | 26.8 ± 2.9** [ 29]b |
| DAYS 57 - 64 | MEAN±S.D. | 29.8 ± 2.2 | 29.9 ± 2.5 | 29.4 ± 3.5 | 29.5 ± 3.5 | 27.1 ± 3.5** [ 29]b |
| DAYS 64 - 70c | MEAN±S.D. | 28.2 ± 2.1 [ 29]a | 29.3 ± 2.8 [ 29]a | 29.3 ± 4.0 [ 26]a | 28.5 ± 3.5 [ 29]a | 25.8 ± 3.2** [ 29]b |
| DAYS 1 - 70c | MEAN±S.D. | 27.9 ± 1.5 [ 29]a | 28.1 ± 1.8 [ 29]a | 28.1 ± 2.0 [ 26]a | 27.9 ± 2.7 [ 29]a | 25.6 ± 2.2** [ 29]b |
| DAYS 85d- 92 | MEAN±S.D. | 29.9 ± 2.4 [ 29]a | 29.8 ± 3.1 | 29.7 ± 3.0 | 29.5 ± 3.9 | 26.3 ± 5.3** [ 29]b |
| DAYS 92 - 99 | MEAN±S.D. | 29.0 ± 2.4 | 29.2 ± 2.8 | 29.1 ± 3.2 | 28.9 ± 3.8 | 26.6 ± 3.0** [ 29]b |
| DAYS 99 -106 | MEAN±S.D. | 28.9 ± 2.1 | 29.3 ± 2.4 [ 29]a | 28.7 ± 2.7 [ 27]a | 28.2 ± 3.8 [ 29]a | 25.8 ± 3.2** [ 29]b |
| DAYS 1 -106 | MEAN±S.D. | 28.3 ± 1.6 | 28.3 ± 1.8 [ 29]a | 28.1 ± 2.2 [ 27]a | 28.1 ± 2.8 [ 29]a | 25.7 ± 2.2** [ 29]b |

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
c. Last value recorded before cohabitation.
d. First value recorded after cohabitation.
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B5 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 112.2 ± 5.7 | 112.8 ± 5.0 | 112.2 ± 4.4 | 110.6 ± 5.6 | 99.8 ± 14.8** [ 29]a |
| DAYS 8 - 15 | MEAN±S.D. | 98.8 ± 10.9 | 97.8 ± 6.5 | 96.7 ± 7.8 [ 28]a | 98.6 ± 6.4 | 107.1 ± 10.9** |
| DAYS 15 - 22 | MEAN±S.D. | 90.6 ± 4.6 | 90.2 ± 5.7 | 90.7 ± 5.4 | 96.2 ± 7.4** | 97.9 ± 15.3** |
| DAYS 22 - 29 | MEAN±S.D. | 78.8 ± 3.8 | 79.6 ± 4.5 | 80.8 ± 5.4 | 85.7 ± 5.6** [ 29]a | 89.0 ± 8.5** |
| DAYS 29 - 36 | MEAN±S.D. | 72.4 ± 3.1 | 71.9 ± 3.4 [ 29]a | 75.4 ± 4.6* [ 28]a | 80.0 ± 6.4** | 83.2 ± 6.2** |
| DAYS 36 - 43 | MEAN±S.D. | 69.0 ± 3.6 | 68.2 ± 5.1 | 71.7 ± 5.3 | 76.3 ± 6.2** | 79.0 ± 14.8** |
| DAYS 43 - 50 | MEAN±S.D. | 66.0 ± 3.7 [ 29]a | 65.3 ± 4.7 | 68.5 ± 5.2 [ 29]a | 73.4 ± 7.7** [ 28]a | 78.7 ± 7.6** [ 28]a,b |
| DAYS 50 - 57 | MEAN±S.D. | 64.0 ± 2.9 [ 29]a | 64.6 ± 6.1 | 67.6 ± 5.5* | 70.7 ± 5.6** | 76.7 ± 7.4** [ 29]b |
| DAYS 57 - 64 | MEAN±S.D. | 62.2 ± 3.1 | 62.7 ± 4.0 | 65.2 ± 7.1* | 69.1 ± 5.8** | 74.8 ± 7.0** [ 29]b |
| DAYS 64 - 70c | MEAN±S.D. | 57.1 ± 2.4 [ 29]a | 59.8 ± 5.6 [ 29]a | 63.4 ± 9.1** [ 26]a | 65.0 ± 7.2** [ 29]a | 70.0 ± 6.9** [ 29]b |
| DAYS 1 - 70c | MEAN±S.D. | 73.7 ± 2.2 [ 29]a | 74.3 ± 3.7 [ 29]a | 77.1 ± 4.7* [ 26]a | 80.5 ± 4.7** [ 29]a | 84.8 ± 6.6** [ 29]b |
| DAYS 85d- 92 | MEAN±S.D. | 55.7 ± 3.5 [ 29]a | 55.9 ± 5.2 | 59.4 ± 4.7** | 62.4 ± 6.3** | 66.6 ± 12.4** [ 29]b |
| DAYS 92 - 99 | MEAN±S.D. | 52.6 ± 2.7 | 53.3 ± 4.4 | 56.7 ± 4.8** | 59.3 ± 5.5** | 66.5 ± 10.5** [ 29]b |
| DAYS 99 -106 | MEAN±S.D. | 50.9 ± 2.8 | 52.6 ± 3.4 [ 29]a | 54.7 ± 4.0** [ 27]a | 56.6 ± 4.9** [ 29]a | 62.5 ± 11.8** [ 29]b |
| DAYS 1 -106 | MEAN±S.D. | 65.8 ± 2.4 | 66.4 ± 3.6 [ 29]a | 69.2 ± 4.3** [ 27]a | 72.6 ± 4.4** [ 29]a | 77.6 ± 6.3** [ 29]b |

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
c. Last value recorded before cohabitation.
d. First value recorded after cohabitation.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B6 (PAGE 1): MATING AND FERTILITY - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS IN COHABITATION | N | 29 | 29 | 30 | 30 | 29 |
| DAYS IN COHABITATION a | MEAN±S.D. | 3.3 ± 2.6 | 1.9 ± 1.2* | 2.4 ± 1.7 [ 29] | 3.1 ± 2.4 [ 28] | 2.6 ± 1.4 [ 28] |
| RATS THAT MATED | N(%) | 29(100.0) | 29(100.0) | 30(100.0) | 29( 96.7) | 29(100.0) |
| FERTILITY INDEX b | N/N (%) | 28/ 29 ( 96.6) | 27/ 29 ( 93.1) | 30/ 30 (100.0) | 29/ 29 (100.0) | 28/ 29 ( 96.6) |
| RATS WITH CONFIRMED MATING DATES | N | 29 | 29 | 29 | 27 | 28 |
| RATS MATING c | | | | | | |
| DAYS 1-7 | N(%) | 27( 93.1) | 29(100.0) | 28( 96.6) | 27(100.0) | 28(100.0) |
| DAYS 8-14 | N(%) | 2( 6.9) | 0( 0.0) | 1( 3.4) | 0( 0.0) | 0( 0.0) |
| RATS PREGNANT/RATS IN COHABITATION | N/N (%) | 28/ 29 ( 96.6) | 27/ 29 ( 93.1) | 30/ 30 (100.0) | 29/ 30 ( 96.7) | 28/ 29 ( 96.6) |

[ ] = NUMBER OF VALUES AVERAGED
a. Restricted to rats with a confirmed mating date and rats that did not mate.
b. Number of pregnancies/number of rats that mated.
c. Restricted to rats with a confirmed mating date.
* Significantly different from the Group I value ($p \leq 0.05$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B7 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS EXAMINED a | N | 30 | 30 | 30 | 30 | 30 |
| MORIBUND SACRIFICED | N | 0 | 0 | 0 | 0 | 1b |
| APPEARED NORMAL | N | 29 | 28 | 28 | 28 | 25 |
| TESTES: | | | | | | |
| RIGHT OR BILATERAL, SMALL AND FLACCID | N | 0 | 1 | 0 | 1 | 1 |
| LEFT, LARGE | N | 0 | 0 | 0 | 0 | 1 |
| BILATERAL, RED | N | 0 | 0 | 0 | 0 | 1b |
| EPIDIDYMIDES: | | | | | | |
| RIGHT, LEFT OR BILATERAL, SMALL AND FLACCID | N | 0 | 1 | 0 | 1 | 2 |
| KIDNEYS: | | | | | | |
| RIGHT, PELVIS, SLIGHT OR MODERATE DILATION | N | 0 | 1 | 2 | 1 | 2 |
| LUNGS: ALL LOBES, NUMEROUS DARK RED AREAS | N | 1 | 0 | 0 | 0 | 0 |
| LIVER: ALL LOBES, TAN AND PALE | N | 0 | 0 | 0 | 0 | 1b |

a. Refer to the individual clinical observations table (Table B12) for external observations confirmed at necropsy.
b. Rat 13732 was moribund sacrificed on day 45 of study.

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TABLE B8 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 580.7 ± 40.0 | 575.3 ± 47.6 | 541.7 ± 47.2** | 513.0 ± 53.9** | 431.8 ± 64.1** |
| EPIDIDYMIS LEFT | MEAN±S.D. | 0.7210 ±0.0599 | 0.6991 ±0.0468 | 0.6901 ±0.0477 | 0.7039 ±0.0476 | 0.6322 ±0.0722** |
| CAUDA EPIDIDYMIS LEFT | MEAN±S.D. | 0.3320 ±0.0398 | 0.3172 ±0.0256 | 0.3148 ±0.0280 | 0.3215 ±0.0307 | 0.2898 ±0.0374** |
| TESTIS LEFT | MEAN±S.D. | 1.7953 ±0.1369 | 1.8103 ±0.1477 | 1.7868 ±0.1312 | 1.8194 ±0.0995 | 1.7878 ±0.2930 |
| LEFT TESTIS MINUS TUNICA ALBUGINEA | MEAN±S.D. | 1.6613 ±0.1410 | 1.6822 ±0.1356 | 1.6598 ±0.1268 | 1.6955 ±0.0943 | 1.6361 ±0.3290 |
| SEMINAL VESICLES WITH FLUID | MEAN±S.D. | 2.2662 ±0.3478 [ 29]b | 2.3326 ±0.3472 | 2.3550 ±0.3246 | 2.3052 ±0.3281 [ 28]b | 2.0652 ±0.2934* |
| SEMINAL VESICLES WITHOUT FLUID | MEAN±S.D. | 1.2686 ±0.1554 | 1.2539 ±0.1685 | 1.2789 ±0.1608 | 1.2664 ±0.1670* | 1.1329 ±0.1545** |
| EPIDIDYMIS RIGHT | MEAN±S.D. | 0.7187 ±0.0573 | 0.6891 ±0.0791 | 0.6930 ±0.0521 | 0.6771 ±0.0958 | 0.6366 ±0.0663** |
| TESTIS RIGHT | MEAN±S.D. | 1.8173 ±0.1687 | 1.8398 ±0.3036 | 1.7915 ±0.1293 | 1.7660 ±0.2117 | 1.7475 ±0.2063 |
| PROSTATE | MEAN±S.D. | 1.1378 ±0.1852 | 1.1426 ±0.2030 | 1.1181 ±0.1672 | 1.0368 ±0.2031 | 0.8619 ±0.1841** |

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
b. Excludes values for rats that had fluid loss prior to weighing or organs damaged (weight affected).
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B8 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| PITUITARY | MEAN±S.D. | 0.014 ± 0.004 | 0.014 ± 0.003 | 0.012 ± 0.003* | 0.014 ± 0.003 | 0.010 ± 0.003** |
| BRAIN | MEAN±S.D. | 2.26 ± 0.17 | 2.28 ± 0.10 | 2.26 ± 0.12 | 2.24 ± 0.12 | 2.20 ± 0.14 |
| LIVER | MEAN±S.D. | 20.30 ± 2.46 | 24.27 ± 3.22** | 27.71 ± 2.74** | 28.74 ± 3.88** | 27.49 ± 3.68** |
| KIDNEY LEFT | MEAN±S.D. | 2.19 ± 0.20 | 2.51 ± 0.28** | 2.51 ± 0.21** | 2.34 ± 0.24* | 1.99 ± 0.19** |
| KIDNEY RIGHT | MEAN±S.D. | 2.19 ± 0.18 | 2.54 ± 0.30** | 2.50 ± 0.18** | 2.36 ± 0.25** | 2.06 ± 0.20* |
| ADRENAL LEFT | MEAN±S.D. | 0.032 ± 0.005 | 0.032 ± 0.004 | 0.030 ± 0.006 | 0.030 ± 0.006 | 0.028 ± 0.006** |
| ADRENAL RIGHT | MEAN±S.D. | 0.032 ± 0.005 | 0.031 ± 0.005 | 0.030 ± 0.008 | 0.031 ± 0.007 | 0.026 ± 0.007** |
| SPLEEN | MEAN±S.D. | 0.94 ± 0.16 | 0.87 ± 0.12 | 0.86 ± 0.11 | 0.87 ± 0.14 | 0.74 ± 0.17** |
| THYMUS | MEAN±S.D. | 0.44 ± 0.10 | 0.38 ± 0.08 | 0.38 ± 0.10 | 0.40 ± 0.14 | 0.30 ± 0.09** |

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B9 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 580.7 ± 40.0 | 575.3 ± 47.6 | 541.7 ± 47.2** | 513.0 ± 53.9** | 431.8 ± 64.1** |
| EPIDIDYMIS LEFT | MEAN±S.D. | 0.123 ± 0.013 | 0.123 ± 0.010 | 0.127 ± 0.011 | 0.138 ± 0.015** | 0.150 ± 0.023** |
| CAUDA EPIDIDYMIS LEFT | MEAN±S.D. | 0.058 ± 0.007 | 0.055 ± 0.007 | 0.057 ± 0.006 | 0.062 ± 0.008 | 0.067 ± 0.012** |
| TESTIS LEFT | MEAN±S.D. | 0.311 ± 0.025 | 0.316 ± 0.031 | 0.332 ± 0.036 | 0.358 ± 0.042** | 0.419 ± 0.080** |
| LEFT TESTIS MINUS TUNICA ALBUGINEA | MEAN±S.D. | 0.287 ± 0.026 | 0.294 ± 0.030 | 0.307 ± 0.034 | 0.333 ± 0.040** | 0.386 ± 0.089** |
| SEMINAL VESICLES WITH FLUID | MEAN±S.D. | 0.397 ± 0.062 [ 29]b | 0.407 ± 0.068 | 0.436 ± 0.064* | 0.465 ± 0.062** [ 28]b | 0.484 ± 0.076** |
| SEMINAL VESICLES WITHOUT FLUID | MEAN±S.D. | 0.219 ± 0.026 | 0.219 ± 0.031 | 0.237 ± 0.034 | 0.249 ± 0.034** | 0.266 ± 0.044** |
| EPIDIDYMIS RIGHT | MEAN±S.D. | 0.123 ± 0.012 | 0.120 ± 0.017 | 0.128 ± 0.012 | 0.133 ± 0.022** | 0.149 ± 0.022** |
| TESTIS RIGHT | MEAN±S.D. | 0.313 ± 0.028 | 0.321 ± 0.056 | 0.334 ± 0.036 | 0.347 ± 0.055** | 0.410 ± 0.064** |
| PROSTATE | MEAN±S.D. | 0.195 ± 0.033 | 0.200 ± 0.045 | 0.207 ± 0.033 | 0.202 ± 0.038 | 0.199 ± 0.035 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
b. Excludes values for rats that had fluid loss prior to weighing or organs damaged (weight affected).
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B9 (PAGE 2): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 580.7 ± 40.0 | 575.3 ± 47.6 | 541.7 ± 47.2** | 513.0 ± 53.9** | 431.8 ± 64.1** |
| PITUITARY b | MEAN±S.D. | 2.409 ± 0.607 | 2.435 ± 0.533 | 2.248 ± 0.543 | 2.752 ± 0.748 | 2.476 ± 0.749 |
| BRAIN | MEAN±S.D. | 0.390 ± 0.034 | 0.399 ± 0.035 | 0.418 ± 0.038* | 0.442 ± 0.056** | 0.518 ± 0.066** |
| LIVER | MEAN±S.D. | 3.490 ± 0.286 | 4.223 ± 0.500** | 5.131 ± 0.472** | 5.606 ± 0.514** | 6.420 ± 0.729** |
| KIDNEY LEFT | MEAN±S.D. | 0.378 ± 0.036 | 0.437 ± 0.047** | 0.465 ± 0.043** | 0.457 ± 0.040** | 0.466 ± 0.054** |
| KIDNEY RIGHT | MEAN±S.D. | 0.379 ± 0.030 | 0.443 ± 0.048** | 0.463 ± 0.039** | 0.462 ± 0.034** | 0.481 ± 0.051** |
| ADRENAL LEFT b | MEAN±S.D. | 5.562 ± 0.786 | 5.575 ± 0.749 | 5.594 ± 1.125 | 5.879 ± 1.094 | 6.593 ± 1.776* |
| ADRENAL RIGHT b | MEAN±S.D. | 5.439 ± 0.852 | 5.361 ± 1.016 | 5.513 ± 1.361 | 6.157 ± 1.646 | 6.177 ± 1.589 |
| SPLEEN | MEAN±S.D. | 0.161 ± 0.027 | 0.152 ± 0.020 | 0.160 ± 0.024 | 0.169 ± 0.025 | 0.171 ± 0.035 |
| THYMUS | MEAN±S.D. | 0.075 ± 0.017 | 0.066 ± 0.012 | 0.071 ± 0.017 | 0.079 ± 0.027 | 0.071 ± 0.022 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
b. Value was multiplied by 1000.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B10 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| BRAIN WEIGHT | MEAN±S.D. | 2.26 ± 0.17 | 2.28 ± 0.10 | 2.26 ± 0.12 | 2.24 ± 0.12 | 2.20 ± 0.14 |
| EPIDIDYMIS LEFT | MEAN±S.D. | 32.08 ± 3.12 | 30.68 ± 2.33 | 30.68 ± 2.74 | 31.47 ± 2.72 | 28.82 ± 3.71** |
| CAUDA EPIDIDYMIS LEFT | MEAN±S.D. | 14.75 ± 1.80 | 13.92 ± 1.32 | 13.99 ± 1.38 | 14.37 ± 1.58 | 13.21 ± 1.88** |
| TESTIS LEFT | MEAN±S.D. | 79.85 ± 7.02 | 79.38 ± 6.31 | 79.43 ± 7.22 | 81.27 ± 5.21 | 81.63 ± 15.65 |
| LEFT TESTIS MINUS TUNICA ALBUGINEA | MEAN±S.D. | 73.91 ± 7.27 | 73.76 ± 5.75 | 73.79 ± 6.84 | 75.74 ± 5.08 | 74.85 ± 17.14 |
| SEMINAL VESICLES WITH FLUID | MEAN±S.D. | 101.29 ± 19.24 [ 29]b | 102.13 ± 14.14 | 104.58 ± 14.68 | 105.25 ± 13.91 [ 28]b | 94.09 ± 14.20 |
| SEMINAL VESICLES WITHOUT FLUID | MEAN±S.D. | 56.50 ± 8.07 | 54.94 ± 7.05 | 56.82 ± 7.49 | 56.65 ± 8.37 | 51.62 ± 7.45 |
| EPIDIDYMIS RIGHT | MEAN±S.D. | 31.96 ± 2.81 | 30.21 ± 3.52 | 30.81 ± 2.85 | 30.29 ± 4.62 | 29.00 ± 3.36** |
| TESTIS RIGHT | MEAN±S.D. | 80.89 ± 9.04 | 80.67 ± 13.57 | 79.66 ± 7.30 | 78.95 ± 9.84 | 79.61 ± 10.36 |
| PROSTATE | MEAN±S.D. | 50.58 ± 8.22 | 50.09 ± 8.73 | 49.67 ± 7.57 | 46.29 ± 9.04 | 39.12 ± 8.06** |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.
b. Excludes values for rats that had fluid loss prior to weighing or organs damaged (weight affected).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B10 (PAGE 2): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| BRAIN WEIGHT | MEAN±S.D. | 2.26 ± 0.17 | 2.28 ± 0.10 | 2.26 ± 0.12 | 2.24 ± 0.12 | 2.20 ± 0.14 |
| PITUITARY | MEAN±S.D. | 0.62 ± 0.18 | 0.61 ± 0.12 | 0.54 ± 0.14* | 0.62 ± 0.14 | 0.48 ± 0.14** |
| LIVER | MEAN±S.D. | 903.14 ±118.64 | 1066.18 ±153.82** | 1230.29 ±119.75** | 1284.45 ±182.50** | 1248.34 ±144.28** |
| KIDNEY LEFT | MEAN±S.D. | 97.52 ± 10.67 | 110.12 ± 12.60** | 111.70 ± 10.49** | 104.60 ± 11.72* | 90.41 ± 8.68* |
| KIDNEY RIGHT | MEAN±S.D. | 97.52 ± 9.94 | 111.62 ± 13.45** | 110.97 ± 9.45** | 105.62 ± 12.37** | 93.51 ± 8.68 |
| ADRENAL LEFT | MEAN±S.D. | 1.43 ± 0.20 | 1.40 ± 0.19 | 1.34 ± 0.26 | 1.34 ± 0.26 | 1.28 ± 0.30 |
| ADRENAL RIGHT | MEAN±S.D. | 1.40 ± 0.23 | 1.35 ± 0.25 | 1.32 ± 0.35 | 1.40 ± 0.35 | 1.20 ± 0.29 |
| SPLEEN | MEAN±S.D. | 41.51 ± 6.97 | 38.41 ± 5.84 | 38.55 ± 6.02 | 38.86 ± 6.15 | 33.40 ± 7.37** |
| THYMUS | MEAN±S.D. | 19.38 ± 4.57 | 16.89 ± 3.73 | 17.11 ± 4.59 | 18.08 ± 6.17 | 13.73 ± 4.01** |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.

* Significantly different from the Group I value ($p \leq 0.05$).

** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B11 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| NUMBER MOTILE | MEAN±S.D. | 354.0 ± 98.9 | 346.5 ± 118.4 | 373.3 ± 102.5 | 338.2 ± 89.0 | 327.4 ± 130.2 |
| MOTILE PERCENT | MEAN±S.D. | 82.6 ± 11.1 | 84.7 ± 7.0 | 86.8 ± 6.7 | 87.4 ± 4.0 | 83.9 ± 8.8 |
| STATIC COUNT (NONMOTILE) | MEAN±S.D. | 73.3 ± 44.0 | 63.0 ± 33.9 | 56.7 ± 32.4 | 48.4 ± 20.3* | 58.4 ± 31.0 |
| TOTAL COUNT b | MEAN±S.D. | 427.2 ± 105.5 | 409.6 ± 135.6 | 430.0 ± 112.6 | 386.6 ± 100.6 | 385.8 ± 138.3 |
| SPERM COUNT c | MEAN±S.D. | 110.6 ± 33.8 | 119.5 ± 38.3 | 111.2 ± 37.6 | 117.7 ± 42.9 | 98.1 ± 36.9 |
| SPERM DENSITY d | MEAN±S.D. | 962.65 ± 279.89 | 1086.87 ± 323.61 | 1016.78 ± 322.39 | 1047.73 ± 318.51 | 952.81 ± 307.64 |

a. Excludes values for rat 13732 which was moribund sacrificed on day 45 of study.

b. Sum of number motile and static count. Groups of five fields were evaluated until a sperm count of at least 200 was achieved or 20 fields were evaluated.

c. Sperm count used in the calculation of sperm density. Ten fields were evaluated.

d. The sperm density was calculated by dividing the sperm count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table B17 for the weight of the left cauda epididymis) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

* Significantly different from the Group I value ($p \leq 0.05$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B11 (PAGE 2): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 29a |
| SPERMATID COUNT b | MEAN±S.D. | 50.7 ± 16.6 | 45.9 ± 13.0 | 47.3 ± 15.6 | 46.4 ± 14.8 | 42.6 ± 16.2 |
| SPERMATID DENSITY c | MEAN±S.D. | 91.99 ± 30.26 | 79.83 ± 21.97 | 82.38 ± 25.57 | 79.16 ± 24.87 | 74.47 ± 29.09 |

a. Excludes values for rat 13732 which was moribund sacrificed on day 45 of study.

b. Spermatid count used in the calculation of spermatid density. Ten fields were evaluated.

c. The spermatid density was calculated by dividing the spermatid count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the spermatid concentration. The calculated spermatid concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left testis minus tunica albuginea (see Table B18 for the weight of the left testis minus tunica albuginea) to obtain the spermatid density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.



ARGUS 418-020

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B12 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - SUMMARY - P GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| INCLUDED IN ANALYSES | N | 30 | 30 | 30 | 30 | 29a |
| NORMAL | MEAN±S.D. | 187.1 ± 24.4 | 191.4 ± 7.0 | 191.2 ± 5.3 | 190.9 ± 3.5 | 178.6 ± 48.7 |
| PERCENT ABNORMAL | MEAN%±S.D. | 6.4 ± 12.2 | 4.3 ± 3.5 | 4.4 ± 2.6 | 4.6 ± 1.8 | 9.7 ± 21.0 |
| DETACHED HEAD | MEAN±S.D. | 7.5 ± 11.2 | 4.4 ± 3.8 | 4.5 ± 2.8 | 5.9 ± 2.9 | 7.4 ± 14.9 |
| NO HEAD | MEAN±S.D. | 5.2 ± 13.3 | 3.5 ± 3.5 | 3.7 ± 2.9 | 2.9 ± 2.3 | 6.1 ± 17.0 |
| BROKEN FLAGELLUM | MEAN±S.D. | 0.2 ± 0.4 | 0.6 ± 1.0 | 0.4 ± 0.6 | 0.2 ± 0.4 | 1.1 ± 3.1 |
| NO HOOK | MEAN±S.D. | 0.0 ± 0.2 | 0.0 ± 0.0 | 0.0 ± 0.2 | 0.1 ± 0.2 | 0.1 ± 0.3 |
| EXCESSIVE HOOK | MEAN±S.D. | 0.0 ± 0.0 | 0.1 ± 0.2 | 0.0 ± 0.2 | 0.0 ± 0.2 | 0.1 ± 0.2 |
| COILED FLAGELLUM | MEAN±S.D. | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.2 | 0.0 ± 0.2 | 0.0 ± 0.2 |
| BENT FLAGELLUM | MEAN±S.D. | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.2 | 0.0 ± 0.0 |
| SHORT SPERM HEAD | MEAN±S.D. | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.1 ± 0.2 |

a. Excludes values for rat 13732, which was moribund sacrificed on day 45 of study.



ARGUS 418-020

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13601 | DS( 60 ) | SOFT OR LIQUID FECES |
| | DS( 67 ) | SOFT OR LIQUID FECES |
| 13602 | | NO ADVERSE FINDINGS |
| 13603 | DS( 58- 59) | SOFT OR LIQUID FECES |
| 13604 | DS( 10 ) | SOFT OR LIQUID FECES |
| 13605 | DS( 30- 36) | LOCALIZED ALOPECIA: LIMBS |
| 13606 | DS( 18- 20) | SOFT OR LIQUID FECES |
| | DS( 88 ) | SOFT OR LIQUID FECES |
| 13607 | DS( 10- 49) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 72- 85) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 93-107) | LOCALIZED ALOPECIA: LIMBS a |
| 13608 | DS( 22- 75) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 44 ) | SOFT OR LIQUID FECES |
| | DS( 94- 96) | LOCALIZED ALOPECIA: LIMBS |
| 13609 | | NO ADVERSE FINDINGS |
| 13610 | | NO ADVERSE FINDINGS |
| 13611 | DS( 44- 84) | LOCALIZED ALOPECIA: LIMBS |
| 13612 | | NO ADVERSE FINDINGS |
| 13613 | | NO ADVERSE FINDINGS |
| 13614 | DS( 17 ) | CHROMORHINORRHEA |
| | DS( 17- 35) | LOCALIZED ALOPECIA: LIMBS |
| 13615 | DS( 25-108) | LOCALIZED ALOPECIA: LIMBS a |
| 13616 | DS( 15- 17) | SOFT OR LIQUID FECES |
| | DS( 94-108) | BOTH EARS: SWOLLEN a |
| 13617 | DS( 22 ) | VOCALIZATION |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13618 | DS( 69- 84) | INCISORS: MISSING/BROKEN |
| 13619 | | NO ADVERSE FINDINGS |
| 13620 | | NO ADVERSE FINDINGS |
| 13621 | | NO ADVERSE FINDINGS |
| 13622 | | NO ADVERSE FINDINGS |
| 13623 | | NO ADVERSE FINDINGS |
| 13625 | | NO ADVERSE FINDINGS |
| 13626 | DS( 29-109) | LOCALIZED ALOPECIA: LIMBS |
| 13627 | | NO ADVERSE FINDINGS |
| 13628 | | NO ADVERSE FINDINGS |
| 13629 | DS( 23- 60) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 39 ) | SOFT OR LIQUID FECES |
| | DS( 86- 87) | SOFT OR LIQUID FECES |
| | DS( 108 ) | SOFT OR LIQUID FECES |
| 13630 | DS( 8- 9) | CHROMORHINORRHEA |

DS = DAY OF STUDY

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13631 | | NO ADVERSE FINDINGS |
| 13632 | | NO ADVERSE FINDINGS |
| 13633 | | NO ADVERSE FINDINGS |
| 13634 | DS( 2- 3) | CHROMORHINORRHEA |
| | DS( 96- 97) | SOFT OR LIQUID FECES |
| 13635 | DS( 9 ) | SOFT OR LIQUID FECES |
| 13636 | DS( 24- 27) | INCISORS: MISSING/BROKEN |
| | DS( 24- 28) | INCISORS: MISALIGNED |
| 13637 | | NO ADVERSE FINDINGS |
| 13638 | DS( 94-107) | BOTH EARS: SWOLLEN a |
| 13639 | DS( 59 ) | SOFT OR LIQUID FECES |
| 13640 | | NO ADVERSE FINDINGS |
| 13641 | | NO ADVERSE FINDINGS |
| 13642 | DS( 7 ) | SOFT OR LIQUID FECES |
| | DS( 18- 21) | CHROMORHINORRHEA |
| | DS( 22- 79) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 72- 75) | CHROMORHINORRHEA |
| | DS( 86- 87) | SOFT OR LIQUID FECES |
| 13643 | | NO ADVERSE FINDINGS |
| 13644 | DS( 36- 60) | INCISORS: MISSING/BROKEN |
| | DS( 36- 62) | CHROMODACRYORRHEA |
| | DS( 61-108) | INCISORS: MISALIGNED a |
| | DS( 88- 92) | CHROMODACRYORRHEA |
| | DS( 94 ) | CHROMODACRYORRHEA |
| | DS( 108 ) | SOFT OR LIQUID FECES |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13645 | DS(101-106) | NOSE: SCAB (0.2 CM X 0.2 CM) |
| 13646 | | NO ADVERSE FINDINGS |
| 13647 | | NO ADVERSE FINDINGS |
| 13648 | DS( 46 ) | SOFT OR LIQUID FECES |
| 13649 | | NO ADVERSE FINDINGS |
| 13650 | DS( 33- 36) | RIGHT FORELIMB: ABRASION (2.0 CM X 1.0 CM) |
| | DS( 37- 39) | RIGHT FORELIMB: SCAB (1.0 CM X 0.5 CM) |
| 13651 | | NO ADVERSE FINDINGS |
| 13652 | DS( 19- 43) | BACK: SCAB (1.0 CM X 1.0 CM) |
| 13653 | DS( 10 ) | SOFT OR LIQUID FECES |
| | DS( 31 ) | SOFT OR LIQUID FECES |
| | DS( 86-109) | RIGHT EAR: SWOLLEN a |
| 13654 | DS( 83- 94) | HEAD: SCAB (0.5 CM X 0.2 CM) |
| | DS( 95- 99) | LOCALIZED ALOPECIA: HEAD |
| | DS( 102 ) | INCISORS: MISSING/BROKEN |
| 13655 | DS( 59 ) | PENIS: RED SUBSTANCE, SLIGHT |
| 13656 | | NO ADVERSE FINDINGS |
| 13657 | DS( 72- 73) | CHROMODACRYORRHEA |
| 13658 | | NO ADVERSE FINDINGS |
| 13659 | DS(105-110) | INCISORS: MISSING/BROKEN a |
| 13660 | DS( 48 ) | SOFT OR LIQUID FECES |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13661 | | NO ADVERSE FINDINGS |
| 13662 | DS( 74-106) | INCISORS: MISSING/BROKEN a |
| 13663 | DS( 61 ) | SOFT OR LIQUID FECES |
| 13664 | DS( 31- 32) | CHROMORHINORRHEA |
| | DS( 31- 53) | INCISORS: MISSING/BROKEN |
| | DS( 31-106) | CHROMODACRYORRHEA a |
| | DS( 31-106) | INCISORS: MISALIGNED a |
| | DS(101-106) | LOCALIZED ALOPECIA: LIMBS a |
| 13665 | DS( 9- 10) | SOFT OR LIQUID FECES |
| | DS( 90- 94) | MOUTH: SCAB (0.2 CM X 0.2 CM) |
| 13666 | | NO ADVERSE FINDINGS |
| 13667 | DS( 57- 69) | CHROMODACRYORRHEA |
| | DS( 57-100) | INCISORS: MISALIGNED |
| | DS( 72- 75) | CHROMODACRYORRHEA |
| | DS( 77-107) | CHROMODACRYORRHEA a |
| 13668 | | NO ADVERSE FINDINGS |
| 13669 | | NO ADVERSE FINDINGS |
| 13670 | | NO ADVERSE FINDINGS |
| 13671 | | NO ADVERSE FINDINGS |
| 13672 | | NO ADVERSE FINDINGS |
| 13673 | | NO ADVERSE FINDINGS |
| 13674 | | NO ADVERSE FINDINGS |
| 13675 | | NO ADVERSE FINDINGS |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13676 | | NO ADVERSE FINDINGS |
| 13677 | | NO ADVERSE FINDINGS |
| 13678 | DS( 16- 17) | CHROMORHINORRHEA |
| 13679 | DS( 39-109) | LOCALIZED ALOPECIA: LIMBS a |
| 13680 | DS( 25- 27) | CHROMORHINORRHEA |
| 13681 | | NO ADVERSE FINDINGS |
| 13682 | | NO ADVERSE FINDINGS |
| 13683 | DS( 51- 52) | CHROMORHINORRHEA |
| 13684 | DS( 20 ) | CHROMORHINORRHEA |
| 13685 | | NO ADVERSE FINDINGS |
| 13686 | DS( 95- 97) | NOSE: SCAB (0.2 CM X 0.2 CM) |
| 13687 | | NO ADVERSE FINDINGS |
| 13688 | | NO ADVERSE FINDINGS |
| 13689 | DS( 10- 23) | CHROMORHINORRHEA |
| | DS( 59 ) | CHROMORHINORRHEA |
| 13690 | DS( 16- 22) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 18 ) | CHROMORHINORRHEA |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13691 | | NO ADVERSE FINDINGS |
| 13692 | | NO ADVERSE FINDINGS |
| 13693 | | NO ADVERSE FINDINGS |
| 13694 | | NO ADVERSE FINDINGS |
| 13695 | DS( 71 ) | CHROMORHINORRHEA |
| 13696 | DS( 82- 84) | SOFT OR LIQUID FECES |
| 13697 | | NO ADVERSE FINDINGS |
| 13698 | | NO ADVERSE FINDINGS |
| 13699 | | NO ADVERSE FINDINGS |
| 13700 | | NO ADVERSE FINDINGS |
| 13701 | DS( 64- 65) | CHROMORHINORRHEA |
| | DS( 64- 78) | INCISORS: MISSING/BROKEN |
| | DS( 65- 70) | CHROMODACRYORRHEA |
| | DS( 73- 76) | CHROMODACRYORRHEA |
| | DS( 79- 97) | INCISORS: MISALIGNED |
| | DS( 95- 96) | CHROMODACRYORRHEA |
| | DS( 99-107) | CHROMODACRYORRHEA a |
| 13702 | DS( 2 ) | CHROMORHINORRHEA |
| | DS( 23- 28) | CHROMORHINORRHEA |
| 13703 | | NO ADVERSE FINDINGS |
| 13704 | DS( 15- 18) | SOFT OR LIQUID FECES |
| | DS( 36 ) | SOFT OR LIQUID FECES |
| 13705 | | NO ADVERSE FINDINGS |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13706 | | NO ADVERSE FINDINGS |
| 13707 | | NO ADVERSE FINDINGS |
| 13708 | DS( 108 ) | INCISORS: MISSING/BROKEN a |
| 13709 | DS( 15- 16) | CHROMORHINORRHEA |
| 13710 | DS( 99-109) | BOTH OR RIGHT EARS: SWOLLEN a |
| 13711 | | NO ADVERSE FINDINGS |
| 13712 | | NO ADVERSE FINDINGS |
| 13713 | DS( 72-109) | LOCALIZED ALOPECIA: LIMBS a |
| 13714 | | NO ADVERSE FINDINGS |
| 13715 | | NO ADVERSE FINDINGS |
| 13716 | | NO ADVERSE FINDINGS |
| 13717 | | NO ADVERSE FINDINGS |
| 13718 | DS( 16- 18) | SOFT OR LIQUID FECES |
| 13719 | DS( 16- 17) | CHROMORHINORRHEA |
| | DS( 23 ) | CHROMORHINORRHEA |
| 13720 | | NO ADVERSE FINDINGS |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13721 | | NO ADVERSE FINDINGS |
| 13722 | DS( 87 ) | SOFT OR LIQUID FECES |
| 13723 | DS( 22 ) | RALES |
| | DS( 85 ) | DEHYDRATION |
| | DS( 85 ) | UNGROOMED COAT |
| | DS( 87- 92) | UNGROOMED COAT |
| | DS( 87- 99) | DEHYDRATION |
| | DS( 94- 95) | DRIED RED PERINASAL SUBSTANCE |
| 13724 | | NO ADVERSE FINDINGS |
| 13725 | | NO ADVERSE FINDINGS |
| 13726 | DS( 24- 26) | CHROMORHINORRHEA |
| | DS( 52- 53) | SOFT OR LIQUID FECES |
| 13727 | DS( 73- 84) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 93- 99) | LOCALIZED ALOPECIA: LIMBS |
| 13728 | | NO ADVERSE FINDINGS |
| 13729 | | NO ADVERSE FINDINGS |
| 13730 | DS( 8 ) | CHROMORHINORRHEA |
| | DS( 16- 21) | CHROMORHINORRHEA |
| 13731 | DS( 3 ) | CHROMORHINORRHEA |
| | DS( 58- 68) | INCISORS: MISALIGNED |
| 13732 | DS( 8- 9) | DEHYDRATION |
| | DS( 18- 34) | EMACIATION |
| | DS( 41- 45) | EMACIATION a |
| | DS( 44- 45) | COLD TO TOUCH |
| | DS( 44- 45) | URINE-STAINED ABDOMINAL FUR |
| | DS( 45 ) | DECREASED MOTOR ACTIVITY |
| | DS( 45 ) | MORIBUND SACRIFICED |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 10): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13733 | | NO ADVERSE FINDINGS |
| 13734 | | NO ADVERSE FINDINGS |
| 13735 | | NO ADVERSE FINDINGS |
| 13736 | DS( 14- 17) | CHROMORHINORRHEA |
| | DS( 23- 24) | CHROMORHINORRHEA |
| 13737 | DS( 85- 90) | DEHYDRATION |
| | DS( 85- 92) | UNGROOMED COAT |
| | DS( 92 ) | DEHYDRATION |
| 13738 | DS( 20- 23) | CHROMORHINORRHEA |
| 13739 | | NO ADVERSE FINDINGS |
| 13740 | DS( 36-100) | LOCALIZED ALOPECIA: LIMBS |
| | DS(107-109) | LOCALIZED ALOPECIA: LIMBS a |
| 13741 | DS( 85- 94) | URINE-STAINED ABDOMINAL FUR |
| | DS( 86- 91) | DRIED, RED OR RED PERINASAL SUBSTANCE |
| | DS( 86- 91) | UNGROOMED COAT |
| | DS( 86- 91) | BOTH FOREPAWS: DRIED, RED SUBSTANCE ON FUR |
| | DS( 86- 92) | DEHYDRATION |
| | DS( 88- 91) | COLD TO TOUCH |
| | DS( 88- 93) | PALE EXTREMITIES |
| | DS( 88- 99) | EMACIATION |
| | DS( 90- 91) | NO FECES |
| | DS( 92- 93) | SCANT FECES |
| 13742 | DS( 2- 3) | CHROMORHINORRHEA |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B13 (PAGE 11): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13743 | | NO ADVERSE FINDINGS |
| 13744 | DS( 16 ) | SOFT OR LIQUID FECES |
| 13745 | | NO ADVERSE FINDINGS |
| 13746 | DS( 100 ) | CHROMORHINORRHEA |
| 13747 | DS( 31- 60) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 78- 84) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 94-110) | LOCALIZED ALOPECIA: LIMBS a |
| 13748 | DS( 17- 21) | CHROMODACRYORRHEA |
| 13749 | | NO ADVERSE FINDINGS |
| 13750 | DS( 3- 5) | CHROMORHINORRHEA |
| | DS( 72 ) | URINE-STAINED ABDOMINAL FUR |

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B14 (PAGE 1): BODY WEIGHTS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | 77 | 85b | 92 | 99 | 106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP I | | | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13601 | 166. | 216. | 275. | 310. | 340. | 369. | 398. | 431. | 455. | 480. | 500. | 507. | 529. | 555. | 567. | 592. |
| 13602 | 191. | 252. | 315. | 362. | 394. | 418. | 446. | 462. | 487. | 511. | 520. | 538. | 553. | 576. | 592. | 610. |
| 13603 | 187. | 253. | 312. | 351. | 382. | 409. | 432. | 455. | 460. | 484. | 511. | 508. | 517. | 538. | 552. | 570. |
| 13604 | 189. | 251. | 313. | 365. | 401. | 434. | 458. | 490. | 516. | 537. | 556. | 565. | 586. | 604. | 631. | 633. |
| 13605 | 166. | 225. | 279. | 327. | 353. | 380. | 402. | 425. | 440. | 458. | 472. | 487. | 494. | 514. | 530. | 533. |
| 13606 | 196. | 267. | 326. | 363. | 399. | 432. | 461. | 489. | 520. | 546. | 555. | 566. | 598. | 610. | 630. | 653. |
| 13607 | 178. | 232. | 288. | 329. | 353. | 373. | 393. | 416. | 438. | 455. | 463. | 481. | 497. | 514. | 529. | 545. |
| 13608 | 182. | 243. | 295. | 336. | 363. | 400. | 411. | 428. | 448. | 478. | 479. | 502. | 505. | 522. | 542. | 562. |
| 13609 | 172. | 233. | 286. | 335. | 374. | 409. | 440. | 464. | 486. | 502. | 515. | 523. | 548. | 565. | 580. | 604. |
| 13610 | 184. | 244. | 304. | 341. | 365. | 392. | 431. | 456. | 471. | 484. | 477. | 500. | 518. | 534. | 554. | 567. |
| 13611 | 177. | 247. | 314. | 363. | 402. | 425. | 459. | 489. | 509. | 533. | 542. | 554. | 578. | 597. | 616. | 632. |
| 13612 | 177. | 239. | 286. | 332. | 366. | 397. | 419. | 445. | 470. | 482. | 492. | 504. | 509. | 527. | 543. | 554. |
| 13613 | 171. | 226. | 270. | 314. | 343. | 359. | 378. | 408. | 432. | 450. | 470. | 479. | 489. | 514. | 528. | 549. |
| 13614 | 181. | 229. | 279. | 313. | 344. | 368. | 398. | 422. | 446. | 460. | 462. | 473. | 493. | 500. | 525. | 527. |
| 13615 | 182. | 238. | 294. | 339. | 379. | 410. | 445. | 457. | 471. | 493. | 511. | 511. | 527. | 542. | 562. | 582. |
| 13616 | 190. | 272. | 270. | 317. | 368. | 404. | 433. | 465. | 498. | 514. | 537. | 557. | 570. | 590. | 614. | 637. |
| 13617 | 178. | 236. | 292. | 332. | 361. | 378. | 399. | 429. | 440. | 441. | 462. | 471. | 478. | 489. | 494. | 507. |
| 13618 | 191. | 253. | 303. | 335. | 366. | 386. | 412. | 433. | 444. | 462. | 472. | 482. | 499. | 510. | 525. | 540. |
| 13619 | 176. | 237. | 292. | 334. | 366. | 392. | 409. | 438. | 455. | 471. | 485. | 501. | 509. | 526. | 543. | 564. |
| 13620 | 178. | 243. | 290. | 339. | 375. | 406. | 435. | 462. | 482. | 495. | 511. | 517. | 536. | 543. | 565. | 570. |
| 13621 | 174. | 234. | 276. | 323. | 358. | 381. | 410. | 423. | 440. | 453. | 472. | 486. | 496. | 492. | 513. | 523. |
| 13622 | 182. | 238. | 290. | 330. | 354. | 378. | 399. | 424. | 454. | 460. | 472. | 483. | 504. | 520. | 544. | 554. |
| 13623 | 181. | 233. | 296. | 336. | 374. | 402. | 440. | 458. | 486. | 496. | 514. | 525. | 531. | 534. | 555. | 580. |
| 13624 | 185. | 246. | 293. | 327. | 356. | 375. | 400. | 420. | 440. | 458. | 467. | 482. | 490. | 502. | 512. | 524. |
| 13625 | 180. | 247. | 311. | 341. | 361. | 385. | 410. | 432. | 461. | 481. | 487. | 504. | 532. | 544. | 563. | 567. |
| 13626 | 186. | 245. | 308. | 353. | 408. | 434. | 463. | 492. | 513. | 545. | 566. | 564. | 570. | 606. | 616. | 636. |
| 13627 | 176. | 244. | 304. | 348. | 374. | 386. | 404. | 423. | 444. | 449. | 466. | 486. | 510. | 523. | 551. | 564. |
| 13628 | 188. | 256. | 312. | 356. | 377. | 423. | 457. | 489. | 516. | 535. | 555. | 570. | 583. | 599. | 604. | 617. |
| 13629 | 176. | 241. | 297. | 326. | 362. | 388. | 409. | 437. | 454. | 476. | 485. | 504. | 515. | 529. | 540. | 547. |
| 13630 | 187. | 263. | 331. | 368. | 408. | 434. | 469. | 498. | 522. | 547. | 556. | 579. | 586. | 596. | 614. | 622. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B14 (PAGE 2): BODY WEIGHTS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | 77 | 85b | 92 | 99 | 106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13631 | 163. | 225. | 285. | 319. | 348. | 375. | 396. | 415. | 433. | 453. | 472. | 481. | 502. | 512. | 532. | 548. |
| 13632 | 194. | 256. | 317. | 359. | 394. | 417. | 440. | 459. | 465. | 476. | 486. | 494. | 512. | 523. | 546. | 558. |
| 13633 | 180. | 241. | 292. | 328. | 362. | 376. | 398. | 418. | 431. | 444. | 456. | 472. | 485. | 498. | 498. | 502. |
| 13634 | 182. | 245. | 301. | 358. | 405. | 433. | 462. | 484. | 509. | 522. | 499. | 478. | 541. | 564. | 585. | 607. |
| 13635 | 167. | 221. | 279. | 318. | 348. | 362. | 392. | 410. | 427. | 441. | 454. | 470. | 485. | 503. | 513. | 526. |
| 13636 | 193. | 265. | 313. | 360. | 386. | 414. | 429. | 438. | 468. | 485. | 514. | 524. | 540. | 551. | 571. | 587. |
| 13637 | 183. | 251. | 322. | 372. | 408. | 440. | 459. | 481. | 506. | 524. | 544. | 556. | 584. | 604. | 622. | 640. |
| 13638 | 181. | 250. | 296. | 335. | 370. | 398. | 432. | 460. | 482. | 517. | 532. | 548. | 574. | 592. | 605. | 611. |
| 13639 | 175. | 244. | 302. | 360. | 404. | 441. | 466. | 483. | 493. | 510. | 499. | 521. | 536. | 553. | 564. | 562. |
| 13640 | 190. | 259. | 317. | 362. | 398. | 429. | 465. | 485. | 501. | 531. | 545. | 558. | 577. | 585. | 600. | 614. |
| 13641 | 179. | 237. | 300. | 340. | 372. | 394. | 411. | 434. | 456. | 464. | 477. | 488. | 502. | 516. | 523. | 536. |
| 13642 | 176. | 242. | 308. | 348. | 385. | 403. | 420. | 443. | 449. | 471. | 460. | 472. | 512. | 530. | 547. | 561. |
| 13643 | 184. | 250. | 305. | 350. | 389. | 422. | 451. | 482. | 496. | 517. | 517. | 542. | 562. | 571. | 586. | 593. |
| 13644 | 186. | 249. | 307. | 352. | 387. | 403. | 428. | 449. | 467. | 488. | 504. | 515. | 538. | 542. | 560. | 583. |
| 13645 | 180. | 244. | 285. | 335. | 374. | 400. | 427. | 455. | 455. | 471. | 486. | 498. | 512. | 527. | 541. | 560. |
| 13646 | 184. | 248. | 294. | 335. | 370. | 392. | 422. | 439. | 460. | 479. | 490. | 497. | 516. | 527. | 533. | 548. |
| 13647 | 173. | 231. | 288. | 339. | 381. | 415. | 431. | 453. | 476. | 491. | 507. | 515. | 527. | 537. | 550. | 564. |
| 13648 | 188. | 247. | 298. | 343. | 387. | 419. | 452. | 478. | 505. | 523. | 542. | 539. | 562. | 566. | 588. | 606. |
| 13649 | 180. | 244. | 294. | 334. | 353. | 372. | 396. | 416. | 431. | 442. | 461. | 476. | 488. | 496. | 510. | 515. |
| 13650 | 187. | 247. | 290. | 345. | 376. | 402. | 430. | 455. | 470. | 483. | 501. | 502. | 520. | 544. | 563. | 568. |
| 13651 | 166. | 227. | 287. | 337. | 369. | 418. | 442. | 467. | 500. | 519. | 537. | 545. | 559. | 570. | 575. | 592. |
| 13652 | 181. | 243. | 292. | 335. | 370. | 405. | 429. | 458. | 469. | 490. | 502. | 526. | 538. | 553. | 562. | 572. |
| 13653 | 176. | 233. | 275. | 313. | 350. | 370. | 391. | 414. | 429. | 439. | 454. | 468. | 482. | 488. | 499. | 517. |
| 13654 | 188. | 253. | 307. | 353. | 388. | 407. | 434. | 460. | 476. | 491. | 501. | 522. | 546. | 558. | 569. | 578. |
| 13655 | 178. | 244. | 296. | 344. | 395. | 422. | 454. | 483. | 515. | 540. | 565. | 577. | 604. | 611. | 627. | 635. |
| 13656 | 188. | 246. | 282. | 316. | 343. | 367. | 381. | 400. | 420. | 437. | 445. | 458. | 470. | 488. | 496. | 514. |
| 13657 | 174. | 232. | 277. | 305. | 322. | 332. | 355. | 377. | 385. | 393. | 411. | 416. | 433. | 440. | 455. | 462. |
| 13658 | 182. | 241. | 300. | 328. | 363. | 394. | 412. | 431. | 460. | 485. | 494. | 508. | 516. | 527. | 543. | 566. |
| 13659 | 175. | 234. | 294. | 336. | 385. | 404. | 427. | 451. | 464. | 484. | 490. | 484. | 497. | 517. | 529. | 545. |
| 13660 | 187. | 260. | 311. | 369. | 415. | 450. | 478. | 512. | 541. | 573. | 594. | 618. | 643. | 654. | 662. | 680. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B14 (PAGE 3): BODY WEIGHTS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | 77 | 85b | 92 | 99 | 106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13661 | 171. | 231. | 287. | 336. | 368. | 394. | 432. | 450. | 461. | 474. | 486. | 509. | 532. | 551. | 569. | 585. |
| 13662 | 195. | 260. | 305. | 333. | 361. | 387. | 411. | 421. | 445. | 464. | 479. | 447. | 488. | 502. | 515. | 539. |
| 13663 | 181. | 250. | 306. | 347. | 378. | 398. | 426. | 448. | 472. | 476. | 494. | 505. | 523. | 547. | 567. | 567. |
| 13664 | 180. | 245. | 298. | 337. | 378. | 384. | 403. | 422. | 430. | 441. | 444. | 442. | 470. | 475. | 485. | 511. |
| 13665 | 171. | 235. | 290. | 338. | 360. | 376. | 398. | 412. | 433. | 454. | 466. | 472. | 480. | 499. | 507. | 511. |
| 13666 | 191. | 257. | 292. | 312. | 320. | 343. | 359. | 373. | 390. | 406. | 418. | 422. | 432. | 436. | 459. | 481. |
| 13667 | 182. | 250. | 307. | 356. | 391. | 415. | 441. | 468. | 460. | 451. | 476. | 492. | 516. | 519. | 513. | 542. |
| 13668 | 182. | 242. | 292. | 321. | 323. | 338. | 355. | 371. | 378. | 385. | 402. | 408. | 414. | 417. | 425. | 449. |
| 13669 | 170. | 227. | 279. | 303. | 318. | 336. | 369. | 392. | 400. | 419. | 385. | 441. | 452. | 462. | 480. | 502. |
| 13670 | 187. | 247. | 304. | 341. | 365. | 386. | 412. | 432. | 450. | 468. | 484. | 498. | 520. | 534. | 549. | 555. |
| 13671 | 174. | 243. | 291. | 339. | 366. | 375. | 391. | 405. | 431. | 446. | 460. | 472. | 483. | 488. | 501. | 526. |
| 13672 | 184. | 240. | 284. | 326. | 361. | 385. | 378. | 398. | 420. | 440. | 454. | 448. | 466. | 475. | 490. | 497. |
| 13673 | 168. | 232. | 282. | 320. | 352. | 374. | 399. | 421. | 447. | 463. | 477. | 483. | 499. | 516. | 538. | 551. |
| 13674 | 185. | 244. | 292. | 319. | 332. | 346. | 360. | 378. | 401. | 414. | 426. | 447. | 460. | 468. | 484. | 496. |
| 13675 | 175. | 246. | 301. | 339. | 363. | 385. | 410. | 428. | 445. | 475. | 473. | 492. | 518. | 524. | 540. | 556. |
| 13676 | 184. | 258. | 289. | 318. | 339. | 354. | 363. | 386. | 398. | 410. | 418. | 431. | 447. | 455. | 458. | 464. |
| 13677 | 175. | 244. | 293. | 327. | 363. | 381. | 404. | 418. | 438. | 450. | 460. | 479. | 488. | 492. | 514. | 522. |
| 13678 | 182. | 251. | 311. | 356. | 404. | 434. | 468. | 485. | 511. | 532. | 550. | 562. | 574. | 589. | 610. | 617. |
| 13679 | 178. | 248. | 284. | 329. | 362. | 386. | 415. | 430. | 452. | 472. | 475. | 502. | 510. | 520. | 540. | 546. |
| 13680 | 182. | 253. | 308. | 359. | 394. | 417. | 434. | 445. | 469. | 490. | 493. | 481. | 506. | 523. | 540. | 521. |
| 13681 | 172. | 240. | 288. | 337. | 361. | 393. | 412. | 425. | 439. | 452. | 460. | 466. | 469. | 481. | 490. | 507. |
| 13682 | 177. | 253. | 312. | 357. | 400. | 424. | 453. | 483. | 501. | 520. | 538. | 544. | 504. | 533. | 569. | 584. |
| 13683 | 180. | 249. | 287. | 333. | 374. | 406. | 426. | 444. | 471. | 483. | 495. | 519. | 532. | 554. | 563. | 572. |
| 13684 | 185. | 248. | 288. | 330. | 359. | 384. | 398. | 420. | 446. | 458. | 469. | 477. | 497. | 499. | 515. | 525. |
| 13685 | 172. | 232. | 275. | 308. | 342. | 362. | 382. | 400. | 418. | 431. | 447. | 461. | 472. | 479. | 483. | 487. |
| 13686 | 188. | 252. | 300. | 325. | 337. | 346. | 364. | 389. | 409. | 427. | 433. | 450. | 461. | 470. | 482. | 499. |
| 13687 | 175. | 240. | 288. | 329. | 355. | 374. | 394. | 408. | 428. | 445. | 450. | 456. | 472. | 478. | 496. | 507. |
| 13688 | 187. | 254. | 316. | 358. | 386. | 402. | 433. | 450. | 466. | 488. | 497. | 513. | 531. | 542. | 558. | 561. |
| 13689 | 178. | 244. | 293. | 344. | 380. | 411. | 441. | 458. | 490. | 498. | 507. | 524. | 534. | 543. | 557. | 562. |
| 13690 | 186. | 255. | 310. | 368. | 408. | 433. | 479. | 511. | 544. | 565. | 596. | 584. | 624. | 629. | 650. | 673. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
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PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B14 (PAGE 4): BODY WEIGHTS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | 77 | 85b | 92 | 99 | 106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13691 | 166. | 227. | 276. | 322. | 356. | 369. | 392. | 414. | 429. | 444. | 464. | 468. | 478. | 496. | 509. | 528. |
| 13692 | 188. | 241. | 261. | 293. | 317. | 329. | 345. | 356. | 365. | 378. | 388. | 389. | 395. | 409. | 433. | 450. |
| 13693 | 178. | 246. | 300. | 353. | 386. | 413. | 433. | 450. | 483. | 494. | 499. | 520. | 543. | 552. | 556. | 570. |
| 13694 | 187. | 254. | 305. | 345. | 383. | 410. | 429. | 460. | 489. | 501. | 519. | 520. | 523. | 544. | 558. | 571. |
| 13695 | 172. | 233. | 274. | 300. | 334. | 356. | 386. | 409. | 408. | 426. | 429. | 440. | 469. | 483. | 498. | 506. |
| 13696 | 190. | 253. | 297. | 331. | 353. | 376. | 411. | 442. | 469. | 481. | 470. | 479. | 509. | 520. | 540. | 553. |
| 13697 | 180. | 234. | 279. | 303. | 333. | 350. | 366. | 382. | 395. | 410. | 419. | 424. | 439. | 441. | 456. | 476. |
| 13698 | 184. | 240. | 269. | 315. | 349. | 372. | 394. | 411. | 434. | 450. | 463. | 480. | 486. | 498. | 517. | 524. |
| 13699 | 170. | 228. | 262. | 296. | 310. | 322. | 343. | 354. | 366. | 383. | 391. | 405. | 424. | 430. | 446. | 468. |
| 13700 | 190. | 259. | 304. | 347. | 379. | 403. | 433. | 440. | 454. | 475. | 481. | 488. | 498. | 503. | 521. | 530. |
| 13701 | 177. | 240. | 284. | 320. | 351. | 362. | 387. | 412. | 420. | 428. | 434. | 435. | 430. | 460. | 462. | 485. |
| 13702 | 168. | 231. | 274. | 310. | 343. | 355. | 381. | 385. | 395. | 415. | 423. | 435. | 450. | 459. | 474. | 487. |
| 13703 | 171. | 226. | 280. | 315. | 341. | 354. | 371. | 401. | 414. | 422. | 437. | 445. | 460. | 469. | 480. | 483. |
| 13704 | 175. | 240. | 285. | 339. | 385. | 406. | 436. | 456. | 482. | 489. | 510. | 523. | 549. | 580. | 598. | 620. |
| 13705 | 179. | 241. | 289. | 330. | 350. | 367. | 396. | 414. | 441. | 454. | 470. | 476. | 499. | 509. | 540. | 551. |
| 13706 | 183. | 248. | 302. | 334. | 362. | 384. | 399. | 424. | 442. | 456. | 462. | 452. | 467. | 486. | 513. | 519. |
| 13707 | 171. | 233. | 281. | 324. | 363. | 384. | 404. | 424. | 440. | 459. | 467. | 487. | 499. | 514. | 535. | 541. |
| 13708 | 188. | 255. | 300. | 350. | 390. | 413. | 433. | 453. | 472. | 476. | 483. | 507. | 526. | 537. | 552. | 538. |
| 13709 | 180. | 234. | 296. | 304. | 335. | 352. | 373. | 382. | 396. | 401. | 407. | 392. | 412. | 421. | 437. | 443. |
| 13710 | 181. | 232. | 253. | 275. | 290. | 300. | 305. | 316. | 328. | 335. | 347. | 352. | 371. | 372. | 381. | 390. |
| 13711 | 170. | 218. | 256. | 268. | 284. | 295. | 300. | 306. | 330. | 336. | 340. | 345. | 364. | 370. | 383. | 393. |
| 13712 | 169. | 225. | 261. | 282. | 322. | 337. | 355. | 378. | 385. | 392. | 407. | 427. | 441. | 436. | 449. | 435. |
| 13713 | 176. | 240. | 280. | 289. | 317. | 334. | 323. | 378. | 404. | 420. | 423. | 434. | 450. | 462. | 478. | 484. |
| 13714 | 181. | 230. | 278. | 307. | 314. | 325. | 339. | 369. | 384. | 383. | 390. | 394. | 410. | 423. | 439. | 434. |
| 13715 | 175. | 239. | 296. | 329. | 361. | 378. | 404. | 423. | 444. | 465. | 471. | 452. | 506. | 519. | 533. | 544. |
| 13716 | 183. | 238. | 293. | 321. | 340. | 351. | 380. | 400. | 417. | 433. | 440. | 448. | 481. | 494. | 514. | 521. |
| 13717 | 178. | 226. | 278. | 300. | 326. | 343. | 369. | 384. | 392. | 395. | 414. | 420. | 439. | 452. | 467. | 477. |
| 13718 | 182. | 243. | 294. | 340. | 368. | 395. | 421. | 439. | 460. | 477. | 493. | 498. | 503. | 521. | 521. | 519. |
| 13719 | 171. | 233. | 277. | 324. | 350. | 375. | 396. | 419. | 441. | 458. | 477. | 483. | 494. | 495. | 518. | 524. |
| 13720 | 190. | 257. | 288. | 339. | 363. | 393. | 421. | 444. | 467. | 488. | 509. | 512. | 535. | 542. | 565. | 583. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B14 (PAGE 5): BODY WEIGHTS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | 77 | 85b | 92 | 99 | 106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP V | | | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13721 | 166. | 220. | 263. | 299. | 331. | 358. | 381. | 394. | 417. | 437. | 444. | 450. | 464. | 481. | 498. | 511. |
| 13722 | 193. | 229. | 268. | 307. | 316. | 315. | 335. | 344. | 355. | 368. | 385. | 405. | 414. | 435. | 441. | 452. |
| 13723 | 178. | 212. | 252. | 254. | 260. | 263. | 267. | 283. | 289. | 286. | 273. | 285. | 295. | 302. | 312. | 321. |
| 13724 | 185. | 193. | 243. | 281. | 296. | 298. | 304. | 326. | 350. | 349. | 361. | 370. | 386. | 388. | 407. | 378. |
| 13725 | 170. | 203. | 235. | 259. | 256. | 259. | 274. | 279. | 288. | 285. | 298. | 300. | 331. | 339. | 353. | 361. |
| 13726 | 179. | 227. | 283. | 312. | 301. | 306. | 350. | 373. | 378. | 380. | 394. | 345. | 419. | 438. | 451. | 465. |
| 13727 | 182. | 227. | 286. | 317. | 320. | 327. | 334. | 338. | 351. | 363. | 380. | 390. | 405. | 413. | 423. | 440. |
| 13728 | 183. | 224. | 268. | 293. | 306. | 315. | 324. | 346. | 365. | 363. | 355. | 371. | 385. | 388. | 392. | 411. |
| 13729 | 172. | 221. | 272. | 298. | 309. | 317. | 329. | 342. | 357. | 369. | 374. | 381. | 392. | 396. | 413. | 427. |
| 13730 | 186. | 236. | 286. | 339. | 372. | 392. | 410. | 420. | 440. | 459. | 456. | 475. | 486. | 499. | 520. | 515. |
| 13731 | 175. | 232. | 280. | 296. | 321. | 341. | 360. | 377. | 389. | 390. | 402. | 406. | 424. | 441. | 453. | 462. |
| 13732 | 186. | 162. | 236. | 208. | 278. | 311. | 192. | MORIBUND SACRIFICED ON DAY 45 OF STUDY | | | | | | | | |
| 13733 | 171. | 198. | 254. | 313. | 361. | 393. | 418. | 442. | 475. | 480. | 506. | 518. | 536. | 547. | 536. | 550. |
| 13734 | 188. | 233. | 271. | 308. | 313. | 317. | 335. | 353. | 378. | 385. | 374. | 390. | 396. | 408. | 428. | 450. |
| 13735 | 178. | 205. | 249. | 275. | 282. | 300. | 336. | 347. | 356. | 364. | 369. | 389. | 400. | 408. | 428. | 437. |
| 13736 | 181. | 214. | 253. | 281. | 300. | 292. | 314. | 352. | 337. | 342. | 352. | 356. | 362. | 381. | 380. | 389. |
| 13737 | 171. | 206. | 232. | 263. | 277. | 282. | 290. | 302. | 320. | 327. | 345. | 344. | 269. | 345. | 365. | 374. |
| 13738 | 183. | 218. | 271. | 284. | 309. | 337. | 354. | 373. | 386. | 399. | 412. | 418. | 431. | 443. | 457. | 464. |
| 13739 | 174. | 192. | 251. | 266. | 271. | 282. | 304. | 303. | 331. | 337. | 334. | 339. | 353. | 351. | 354. | 360. |
| 13740 | 188. | 206. | 267. | 300. | 322. | 333. | 368. | 377. | 405. | 414. | 429. | 433. | 449. | 464. | 478. | 486. |
| 13741 | 171. | 211. | 257. | 257. | 262. | 268. | 296. | 308. | 315. | 310. | 311. | 312. | 268. | 217. | 300. | 341. |
| 13742 | 185. | 216. | 255. | 283. | 283. | 281. | 291. | 296. | 302. | 304. | 306. | 321. | 325. | 322. | 335. | 342. |
| 13743 | 169. | 187. | 232. | 263. | 287. | 294. | 306. | 318. | 331. | 343. | 344. | 360. | 370. | 390. | 373. | 390. |
| 13744 | 176. | 191. | 243. | 268. | 274. | 282. | 295. | 315. | 328. | 337. | 340. | 349. | 352. | 359. | 370. | 386. |
| 13745 | 176. | 217. | 259. | 277. | 276. | 301. | 321. | 328. | 353. | 358. | 360. | 368. | 370. | 379. | 399. | 395. |
| 13746 | 190. | 237. | 282. | 288. | 311. | 320. | 335. | 352. | 370. | 380. | 386. | 391. | 415. | 419. | 429. | 442. |
| 13747 | 169. | 209. | 255. | 253. | 256. | 258. | 280. | 286. | 297. | 301. | 305. | 302. | 301. | 306. | 321. | 323. |
| 13748 | 185. | 190. | 266. | 319. | 353. | 367. | 392. | 328. | 403. | 448. | 475. | 485. | 501. | 517. | 548. | 547. |
| 13749 | 173. | 217. | 268. | 305. | 321. | 335. | 347. | 358. | 375. | 390. | 400. | 383. | 409. | 436. | 442. | 456. |
| 13750 | 176. | 206. | 246. | 282. | 303. | 326. | 348. | 349. | 380. | 391. | 404. | 390. | 399. | 414. | 418. | 431. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B15 (PAGE 1): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a | 85b-92 | 92- 99 | 99-106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP I | | | | 0 MG/KG/DAY | | | | | | | | |
| 13601 | 148. | 195. | 190. | 178. | 188. | 196. | 208. | 215. | 225. | 188. | 226. | 214. | 220. |
| 13602 | 166. | 209. | 217. | 208. | 201. | 196. | 198. | 206. | 218. | 176. | 213. | 208. | 208. |
| 13603 | 183. | 207. | 225. | 212. | 198. | 204. | 202. | 198. | 210. | 174. | 205. | 201. | 202. |
| 13604 | 172. | 211. | 220. | 210. | 210. | 215. | 217. | 226. | 220. | 185. | 220. | 219. | 203. |
| 13605 | 164. | 185. | 207. | 198. | 195. | 195. | 198. | 194. | 204. | 171. | 223. | 197. | 193. |
| 13606 | 179. | 203. | 195. | 216. | 213. | 220. | 220. | 230. | 228. | 188. | 247. | 240. | 219. |
| 13607 | 154. | 199. | 198. | 193. | 181. | 192. | 205. | 207. | 199. | 165. | 204. | 209. | 190. |
| 13608 | 166. | 182. | 197. | 187. | 201. | 196. | 191. | 198. | 204. | 167. | 209. | 201. | 191. |
| 13609 | 168. | 175. | 201. | 196. | 200. | 207. | 210. | 219. | 213. | 166. | 222. | 202. | 212. |
| 13610 | 177. | 209. | 208. | 196. | 212. | 230. | 228. | 227. | 239. | c | 243. | 233. | 231. |
| 13611 | 189. | 218. | 221. | 229. | 214. | 218. | c | 224. | 235. | 187. | 239. | 229. | 226. |
| 13612 | 170. | 188. | 201. | 200. | 202. | 200. | 191. | 199. | 206. | 168. | 200. | 199. | 202. |
| 13613 | 153. | 161. | 186. | 185. | 170. | 177. | 186. | 197. | 205. | 160. | 192. | 195. | 207. |
| 13614 | 153. | 182. | 180. | 174. | 177. | 199. | 200. | 203. | 198. | 153. | 199. | 192. | 190. |
| 13615 | 152. | 168. | 197. | 194. | 189. | 197. | 186. | 190. | 207. | 172. | 198. | 194. | 206. |
| 13616 | 190. | 95. | 208. | 206. | 203. | 195. | 202. | 217. | 226. | 181. | 218. | 225. | 221. |
| 13617 | 160. | 186. | 182. | 191. | 186. | 183. | 188. | 189. | 183. | 160. | 185. | 180. | 175. |
| 13618 | 166. | 177. | 200. | 187. | 189. | 196. | 207. | 205. | 201. | 151. | 208. | 202. | 209. |
| 13619 | 164. | 184. | 204. | 205. | 188. | 189. | 198. | c | 199. | 166. | 192. | 187. | 198. |
| 13620 | 165. | 177. | 207. | 208. | 201. | 200. | 200. | 205. | 204. | 173. | 203. | 198. | 188. |
| 13621 | 162. | 170. | 199. | 190. | 186. | 182. | 180. | 187. | 185. | 158. | 178. | 171. | 178. |
| 13622 | 158. | 176. | 191. | 179. | 172. | 181. | 187. | 193. | 184. | 157. | 202. | 198. | 198. |
| 13623 | 148. | 189. | 201. | 192. | 190. | 193. | 200. | 206. | 209. | 169. | 187. | 184. | 192. |
| 13624 | 175. | 176. | 195. | 183. | 188. | 190. | 189. | 194. | 198. | 159. | c | 181. | 186. |
| 13625 | 176. | 195. | 196. | 173. | 181. | 183. | 203. | 206. | 203. | 160. | 199. | 194. | 180. |
| 13626 | 164. | 186. | 213. | 212. | 207. | 206. | 204. | 215. | 232. | 180. | 225. | 234. | 230. |
| 13627 | 159. | 189. | 207. | 187. | 174. | 170. | 176. | 180. | 177. | 139. | 199. | 197. | 195. |
| 13628 | 177. | 198. | 207. | 182. | 220. | 231. | 223. | 214. | 226. | 187. | 221. | 211. | 208. |
| 13629 | 172. | 202. | 189. | 196. | 195. | 197. | 213. | 205. | 204. | 170. | 210. | 198. | 206. |
| 13630 | 166. | 207. | 195. | 205. | 213. | 214. | 219. | 219. | 218. | 184. | 209. | 207. | 210. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B15 (PAGE 2): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a | 85b-92 | 92- 99 | 99-106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | | | | | | | | |
| 13631 | 160. | 189. | 183. | 176. | 175. | 182. | 189. | 195. | 200. | 169. | 197. | 199. | 193. |
| 13632 | 166. | 189. | 211. | 197. | 195. | 197. | 196. | 199. | 205. | 174. | 221. | 210. | 219. |
| 13633 | 173. | 172. | 188. | 186. | 178. | 180. | 186. | 188. | 196. | 166. | 192. | 184. | 169. |
| 13634 | 169. | 190. | 222. | 228. | 228. | 230. | 232. | 232. | 233. | 175. | 255. | 228. | 224. |
| 13635 | 156. | 207. | 206. | 198. | 200. | 207. | 217. | 212. | 219. | 182. | 217. | 209. | 210. |
| 13636 | 186. | 195. | 230. | 210. | 212. | 197. | 219. | 230. | 231. | 213. | 236. | 240. | 235. |
| 13637 | 172. | 206. | 216. | 211. | 212. | 205. | 215. | 215. | 223. | c | 230. | 213. | 218. |
| 13638 | 176. | 191. | 203. | 206. | 204. | 217. | 216. | 223. | 233. | 194. | 238. | 228. | 221. |
| 13639 | 167. | 182. | 229. | 217. | 216. | 210. | 210. | 210. | 220. | 172. | 221. | 206. | 202. |
| 13640 | 180. | 199. | 215. | 211. | 202. | 218. | 216. | 220. | 235. | 187. | 231. | 218. | 220. |
| 13641 | 160. | 207. | 203. | 193. | 190. | 182. | 189. | 194. | 190. | 164. | 190. | 170. | 189. |
| 13642 | 173. | 208. | 215. | 216. | 194. | 196. | 189. | 197. | 211. | 158. | 227. | 211. | 209. |
| 13643 | 171. | 187. | 191. | 201. | 198. | 203. | 198. | 202. | 216. | 174. | 209. | 206. | 211. |
| 13644 | 178. | 193. | 198. | 203. | 195. | 174. | 192. | 196. | 208. | 182. | 190. | 219. | 226. |
| 13645 | 167. | 178. | 200. | 215. | 196. | 203. | 200. | 204. | 197. | 169. | 203. | 191. | 200. |
| 13646 | 170. | 180. | 184. | 193. | 186. | 185. | 187. | 197. | 195. | 161. | 195. | 188. | 193. |
| 13647 | 159. | 172. | 185. | 190. | 190. | 182. | 183. | 190. | 196. | 171. | 190. | 182. | 196. |
| 13648 | 163. | 171. | 195. | 199. | 203. | 201. | 201. | 217. | 216. | 179. | 206. | 204. | 215. |
| 13649 | 170. | 188. | 219. | 196. | 186. | 199. | 200. | 196. | 200. | 167. | 195. | 185. | 181. |
| 13650 | 171. | 179. | 209. | 210. | 203. | 213. | 221. | 216. | 211. | 174. | 233. | 225. | 216. |
| 13651 | 165. | 182. | 195. | 197. | 206. | 212. | 213. | 210. | 221. | 184. | 198. | 194. | 205. |
| 13652 | 163. | 177. | 214. | 219. | 203. | 206. | 197. | 200. | 196. | 169. | 198. | 195. | 190. |
| 13653 | 153. | 163. | 181. | 174. | 171. | 170. | 170. | 175. | 172. | 219. | 169. | 167. | 176. |
| 13654 | 176. | 176. | 200. | 190. | 186. | 191. | 190. | 205. | 201. | 165. | 201. | 198. | 199. |
| 13655 | 173. | 182. | 204. | 205. | 213. | 208. | 209. | 226. | 227. | 196. | 228. | 226. | 218. |
| 13656 | 148. | 158. | 164. | 156. | 162. | 157. | 159. | 167. | 170. | 143. | 167. | 173. | 181. |
| 13657 | 154. | 177. | 200. | 187. | c | 200. | 195. | 194. | 200. | 152. | 215. | 211. | 198. |
| 13658 | 155. | 183. | 173. | 192. | 191. | 191. | 185. | 280. | 199. | 165. | 185. | 198. | 220. |
| 13659 | 169. | 184. | 198. | 207. | 202. | 201. | 210. | 200. | 209. | 168. | 197. | 211. | 217. |
| 13660 | 183. | 186. | 214. | 220. | 222. | 221. | 224. | 233. | 246. | 201. | 240. | 239. | c |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B15 (PAGE 3): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a | 85b-92 | 92- 99 | 99-106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | | | | | | | | |
| 13661 | 158. | 179. | 186. | 189. | 191. | 193. | 200. | 193. | 191. | 168. | 209. | 200. | 202. |
| 13662 | 178. | 191. | 203. | 201. | 205. | 209. | 201. | 213. | 223. | 179. | 224. | 208. | 210. |
| 13663 | 162. | 176. | 191. | 193. | 190. | 201. | 205. | 205. | 212. | 173. | 216. | 211. | 194. |
| 13664 | 178. | 184. | 220. | 239. | c | 215. | 215. | 221. | 221. | 198. | 218. | 207. | 219. |
| 13665 | 169. | 197. | 215. | 199. | 196. | 201. | 202. | 210. | 221. | 176. | 213. | 197. | 187. |
| 13666 | 174. | 177. | 196. | 174. | 181. | 194. | 190. | 183. | 181. | 151. | 174. | 176. | 185. |
| 13667 | 167. | 191. | 203. | 209. | 205. | 212. | 211. | 206. | 128. | 165. | 180. | 179. | 203. |
| 13668 | 172. | 197. | 204. | 176. | 183. | 195. | 204. | 207. | 219. | 172. | 212. | 209. | 202. |
| 13669 | 152. | 208. | 173. | 172. | 160. | 188. | 190. | 194. | 195. | 203. | 187. | 185. | 191. |
| 13670 | 178. | 222. | 237. | 239. | 228. | 227. | 229. | 242. | 232. | 186. | 236. | 228. | 216. |
| 13671 | 168. | 185. | 207. | 189. | 179. | 186. | 190. | 201. | 205. | 138. | 197. | 190. | 193. |
| 13672 | 151. | 167. | 183. | 193. | 197. | 160. | 168. | 181. | 199. | c | 186. | 178. | 178. |
| 13673 | 165. | 175. | 193. | 192. | 199. | 198. | 195. | 208. | 206. | c | 206. | 205. | 200. |
| 13674 | 161. | 190. | 198. | 173. | 168. | 170. | 172. | 176. | 186. | c | 185. | 181. | 188. |
| 13675 | 167. | 195. | 202. | 208. | 207. | 203. | 214. | 218. | 226. | 130. | 238. | 222. | 212. |
| 13676 | 174. | c | 184. | 172. | 161. | 158. | 166. | 159. | 164. | 156. | 167. | 162. | 162. |
| 13677 | 164. | c | 177. | 207. | 203. | 190. | 191. | 199. | 205. | 202. | 200. | 206. | 204. |
| 13678 | 166. | 192. | 200. | 218. | 221. | 218. | 212. | 221. | 215. | c | 229. | 216. | 219. |
| 13679 | 166. | 162. | 201. | 207. | 209. | 220. | c | 231. | 212. | 176. | 204. | 197. | c |
| 13680 | 162. | 184. | 200. | 209. | c | 208. | 191. | 205. | 228. | 157. | 214. | 218. | c |
| 13681 | 154. | 169. | 192. | 190. | 201. | 197. | 195. | 202. | 198. | 226. | 201. | 192. | 195. |
| 13682 | 166. | 184. | 210. | 215. | 212. | 215. | 217. | 216. | 221. | 181. | 241. | 256. | c |
| 13683 | 165. | 155. | 194. | 192. | 195. | 184. | 178. | 189. | 192. | 160. | 208. | 201. | 195. |
| 13684 | 180. | 172. | 199. | 191. | 196. | 179. | 179. | 187. | 191. | 153. | 196. | 197. | 185. |
| 13685 | 161. | 155. | 188. | 193. | 196. | 191. | 188. | 196. | 199. | 164. | 199. | 180. | 181. |
| 13686 | 170. | 179. | 193. | 168. | 176. | 188. | 203. | 210. | 209. | 186. | 204. | 205. | 202. |
| 13687 | 169. | 176. | 214. | 201. | 203. | 202. | 199. | 207. | 208. | 174. | 204. | 211. | 210. |
| 13688 | 184. | 204. | 200. | 200. | 201. | 206. | 212. | 227. | 216. | 186. | 225. | 213. | 216. |
| 13689 | 159. | 168. | 200. | 190. | 200. | 200. | 203. | 204. | 203. | 180. | 209. | 214. | 209. |
| 13690 | 176. | 193. | 234. | 227. | 244. | 251. | 259. | 261. | 274. | 237. | 268. | 274. | 267. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B15 (PAGE 4): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a | 85b-92 | 92- 99 | 99-106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY | | | | | | | | |
| 13691 | 152. | 183. | 200. | 200. | 181. | 217. | 209. | 200. | 209. | 178. | 223. | 214. | 216. |
| 13692 | 155. | 168. | 199. | 183. | 186. | 194. | 195. | 186. | 192. | 153. | 197. | 194. | 190. |
| 13693 | 171. | 208. | 234. | 233. | 235. | 228. | c | 251. | 237. | 207. | 245. | 229. | 220. |
| 13694 | 167. | 199. | 210. | 210. | 207. | 201. | 229. | 224. | 229. | 192. | 216. | 203. | 203. |
| 13695 | 176. | 191. | 214. | 219. | 230. | 235. | c | 231. | 248. | 204. | 256. | 233. | 219. |
| 13696 | 174. | 189. | 230. | 207. | 223. | 232. | 238. | 240. | 230. | 193. | 249. | 245. | 231. |
| 13697 | 156. | 172. | 173. | 172. | 167. | 174. | 177. | 188. | 191. | 155. | 177. | 172. | 181. |
| 13698 | 163. | 144. | 191. | 188. | 189. | 196. | 194. | 197. | 197. | 167. | 195. | 184. | 191. |
| 13699 | 162. | 162. | 194. | 182. | 178. | 183. | 184. | 180. | 183. | 172. | 187. | 175. | 182. |
| 13700 | 181. | 187. | 235. | 230. | 241. | 243. | 233. | 243. | 245. | 119. | 242. | 223. | 227. |
| 13701 | 163. | 177. | 219. | 195. | 198. | 197. | 199. | 198. | 198. | 190. | 191. | 164. | 176. |
| 13702 | 157. | 176. | 197. | 194. | 190. | 194. | 194. | 194. | 201. | 148. | 193. | 192. | 196. |
| 13703 | 147. | 176. | 185. | 179. | 176. | 161. | 189. | 180. | 179. | 192. | 139. | 187. | 177. |
| 13704 | 156. | 174. | 221. | 230. | 229. | 221. | 218. | 221. | 224. | 183. | 237. | 239. | 245. |
| 13705 | 166. | 196. | 229. | 225. | 218. | 223. | 221. | 224. | 221. | 184. | 220. | 222. | 225. |
| 13706 | 165. | 195. | 195. | 188. | 188. | 198. | 204. | 201. | 209. | 172. | 215. | 209. | 203. |
| 13707 | 157. | 186. | 208. | 225. | 226. | 215. | 210. | 214. | 222. | 184. | 218. | 227. | 215. |
| 13708 | 169. | 185. | 222. | 234. | 222. | 209. | 217. | 220. | 207. | 177. | 224. | 227. | 208. |
| 13709 | 165. | 191. | 178. | 176. | 180. | 185. | 187. | 182. | 211. | c | 195. | 189. | 175. |
| 13710 | 172. | 180. | 171. | 165. | 178. | 179. | 173. | 176. | 176. | 151. | 179. | 165. | 170. |
| 13711 | 141. | 156. | 183. | 169. | 178. | 170. | 198. | 190. | 181. | 153. | 185. | 175. | 173. |
| 13712 | 144. | 144. | 151. | 162. | 160. | 161. | 211. | 159. | 148. | 137. | 161. | 157. | 130. |
| 13713 | 164. | 169. | 179. | 179. | 178. | 157. | 204. | 202. | 199. | 158. | 195. | 188. | 190. |
| 13714 | 150. | 174. | 177. | c | 171. | 172. | 173. | 177. | 175. | 145. | 179. | 186. | 165. |
| 13715 | 174. | 204. | 202. | 204. | 205. | 207. | 202. | 213. | 219. | 177. | 215. | 160. | c |
| 13716 | 143. | 190. | 201. | 190. | 191. | 193. | 168. | 197. | 203. | 161. | 211. | 217. | 210. |
| 13717 | 150. | 184. | 190. | 185. | 181. | 185. | 135. | 177. | 178. | 158. | 186. | 195. | 191. |
| 13718 | 161. | 183. | 219. | 218. | 210. | 217. | 204. | 211. | 213. | 175. | 217. | 237. | 163. |
| 13719 | 157. | 173. | 215. | 207. | 205. | 210. | 222. | 200. | 218. | 182. | 217. | 223. | 217. |
| 13720 | 183. | 182. | 241. | 233. | 238. | 235. | 246. | 248. | 258. | 195. | 243. | 243. | 241. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B15 (PAGE 5): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P GENERATION MALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a | 85b-92 | 92- 99 | 99-106 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP V | | | | 30 MG/KG/DAY | | | | | | | | |
| 13721 | 144. | 176. | 189. | 183. | 189. | 195. | 191. | 200. | 203. | 154. | 206. | 201. | 192. |
| 13722 | 137. | 174. | 214. | 176. | 179. | 188. | 186. | 168. | 170. | 162. | 197. | 179. | 180. |
| 13723 | 132. | 170. | 146. | 157. | 146. | 158. | 156. | 156. | 149. | 105. | 145. | 146. | 205. |
| 13724 | 184. | 190. | 232. | 205. | 182. | 194. | 220. | 228. | 219. | 168. | 211. | 207. | 111. |
| 13725 | 150. | 204. | 214. | 178. | 160. | 173. | 171. | 165. | 165. | 156. | 185. | 175. | 168. |
| 13726 | 162. | 213. | 217. | 189. | 179. | 210. | 217. | 203. | 205. | 174. | 233. | 217. | 206. |
| 13727 | 156. | 211. | 208. | 182. | 176. | 170. | 178. | 189. | 202. | 170. | 193. | 181. | 190. |
| 13728 | 152. | 186. | 200. | 193. | 185. | 182. | 195. | 200. | 194. | 160. | 201. | 187. | 187. |
| 13729 | 156. | 186. | 204. | 195. | 196. | 191. | 194. | 208. | 208. | 162. | 197. | 200. | 201. |
| 13730 | 153. | 186. | 228. | 228. | 223. | 221. | 205. | 219. | 240. | 166. | 223. | 224. | 203. |
| 13731 | 154. | 178. | 174. | 175. | 165. | 175. | 182. | 180. | 170. | 154. | 190. | 193. | 178. |
| 13732 | 74. | 184. | 59. | 208. | 191. | 19. | MORIBUND SACRIFICED ON DAY 45 OF STUDY | | | | | | |
| 13733 | 108. | 151. | 202. | 205. | 200. | 207. | 201. | 206. | 212. | 188. | 209. | 190. | 166. |
| 13734 | 159. | 164. | 214. | 192. | 174. | 167. | 189. | 189. | 191. | 157. | 169. | 188. | 190. |
| 13735 | 116. | 157. | 169. | 157. | 169. | 173. | 187. | 184. | 190. | 148. | 183. | 181. | 175. |
| 13736 | 140. | 154. | 181. | 171. | 161. | 155. | 167. | 171. | 175. | 147. | 185. | 163. | 166. |
| 13737 | 124. | 133. | 165. | 165. | 145. | 147. | 147. | 149. | 159. | 129. | 183. | 171. | 162. |
| 13738 | 145. | 184. | 169. | 177. | 176. | 181. | 177. | 183. | 180. | 150. | 190. | 172. | 180. |
| 13739 | 130. | 174. | 185. | 163. | 172. | 181. | 169. | 182. | 172. | 136. | 160. | 166. | 154. |
| 13740 | 123. | 169. | 203. | 184. | 191. | 199. | 202. | 205. | 206. | 172. | 215. | 210. | 201. |
| 13741 | c | 194. | 180. | 155. | 165. | 186. | 175. | 174. | 166. | 139. | 23. | 198. | 225. |
| 13742 | 135. | 172. | 189. | 177. | 171. | 169. | 172. | 173. | 168. | 146. | 177. | 172. | 170. |
| 13743 | 100. | 158. | 175. | 182. | 177. | 170. | 184. | 182. | 182. | 147. | 197. | 160. | 168. |
| 13744 | 105. | 173. | 191. | 169. | 169. | 176. | 186. | 185. | 197. | 143. | 176. | 184. | 175. |
| 13745 | 162. | 179. | 182. | 166. | 189. | 184. | 182. | 198. | 182. | 155. | 177. | 195. | 178. |
| 13746 | 148. | 177. | 152. | 190. | 180. | 182. | 183. | 181. | 185. | 155. | 175. | 182. | 179. |
| 13747 | 140. | 182. | 175. | 151. | 154. | 166. | 166. | 159. | 161. | 129. | 156. | 162. | 148. |
| 13748 | 106. | 163. | 217. | 208. | 209. | 218. | c | 220. | 245. | 200. | 221. | 235. | 204. |
| 13749 | 133. | 167. | 181. | 170. | 163. | 158. | 159. | 164. | 166. | 138. | 176. | 163. | 163. |
| 13750 | 140. | 172. | 202. | 208. | 210. | 209. | 200. | 213. | 233. | 181. | 199. | 207. | 209. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B16 (PAGE 1): MATING AND FERTILITY - INDIVIDUAL DATA - P GENERATION MALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 13601 | 3 | M | C | P(13801) |
| 13602 | 2 | M | C | P(13802) |
| 13603 | 4 | M | C | P(13803) |
| 13604 | 1 | M | C | P(13805) |
| 13605 | 1 | M | C | P(13806) |
| 13606 | 3 | M | C | P(13807) |
| 13607 | 1 | M | C | P(13808) |
| 13608 | 14 | M | C | P(13809) |
| 13609 | 2 | M | C | P(13810) |
| 13610 | 1 | M | C | NP(13811) |
| 13611 | 4 | M | C | P(13812) |
| 13612 | 4 | M | C | P(13813) |
| 13613 | 3 | M | C | P(13814) |
| 13614 | 4 | M | C | P(13815) |
| 13615 | 8 | M | C | P(13816) |
| 13616 | 3 | M | C | P(13817) |
| 13617 | 3 | M | C | P(13818) |
| 13618 | 2 | M | C | P(13819) |
| 13619 | 2 | M | C | P(13820) |
| 13620 | 4 | M | C | P(13821) |
| 13621 | 4 | M | C | P(13822) |
| 13622 | 4 | M | C | P(13823) |
| 13623 | 4 | M | C | P(13824) |
| 13624 | 4 | M | C | P(13825) |
| 13625 | 1 | M | C | P(13826) |
| 13626 | 4 | M | C | P(13827) |
| 13627 | 1 | M | C | P(13828) |
| 13628 | 1 | M | C | P(13829) |
| 13629 | 4 | M | C | P(13830) |
| 13630a | - | - | - | -------- |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT
a. Rat 13630 was not assigned to cohabitation because there were no available female rats.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B16 (PAGE 2): MATING AND FERTILITY - INDIVIDUAL DATA - P GENERATION MALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 13631 | 3 | M | C | P(13831) |
| 13632 | 4 | M | C | P(13832) |
| 13633 | 2 | M | C | P(13833) |
| 13634 | 2 | M | C | P(13834) |
| 13635 | 2 | M | C | P(13835) |
| 13636 | 1 | M | C | P(13837) |
| 13637 | 1 | M | C | P(13838) |
| 13638 | 2 | M | C | P(13839) |
| 13639 | 1 | M | C | NP(13840) |
| 13640 | 1 | M | C | P(13841) |
| 13641 | 1 | M | C | P(13842) |
| 13642 | 4 | M | C | P(13843) |
| 13643 | 1 | M | C | P(13844) |
| 13644 | 1 | M | C | P(13845) |
| 13645 | 1 | M | C | P(13846) |
| 13646 | 1 | M | C | P(13847) |
| 13647 | 4 | M | C | P(13848) |
| 13648 | 3 | M | C | P(13849) |
| 13649 | 1 | M | C | P(13850) |
| 13650 | 1 | M | C | NP(13851) |
| 13651 | 1 | M | C | P(13852) |
| 13652 | 1 | M | C | P(13853) |
| 13653 | 1 | M | C | P(13854) |
| 13654 | 1 | M | C | P(13855) |
| 13655 | 1 | M | C | P(13856) |
| 13656 | 4 | M | C | P(13857) |
| 13657 | 1 | M | C | P(13858) |
| 13658 | 3 | M | C | P(13859) |
| 13659 | 4 | M | C | P(13860) |
| 13660a | - | - | - | -------- |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT
a. Rat 13660 was not assigned to cohabitation because there were no available female rats.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B16 (PAGE 3): MATING AND FERTILITY - INDIVIDUAL DATA - P GENERATION MALE RATS

DOSAGE GROUP III 3 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 13661 | 1 | M | C | P(13861) |
| 13662 | 14 | M | NC | P(13862) |
| 13663 | 2 | M | C | P(13863) |
| 13664 | 5 | M | C | P(13864) |
| 13665 | 1 | M | C | P(13865) |
| 13666 | 2 | M | C | P(13866) |
| 13667 | 4 | M | C | P(13867) |
| 13668 | 4 | M | C | P(13868) |
| 13669 | 4 | M | C | P(13869) |
| 13670 | 1 | M | C | P(13870) |
| 13671 | 2 | M | C | P(13871) |
| 13672 | 4 | M | C | P(13872) |
| 13673 | 8 | M | C | P(13873) |
| 13674 | 2 | M | C | P(13874) |
| 13675 | 1 | M | C | P(13875) |
| 13676 | 1 | M | C | P(13876) |
| 13677 | 3 | M | C | P(13877) |
| 13678 | 1 | M | C | P(13878) |
| 13679 | 1 | M | C | P(13879) |
| 13680 | 1 | M | C | P(13880) |
| 13681 | 1 | M | C | P(13881) |
| 13682 | 3 | M | C | P(13882) |
| 13683 | 1 | M | C | P(13883) |
| 13684 | 4 | M | C | P(13884) |
| 13685 | 1 | M | C | P(13885) |
| 13686 | 1 | M | C | P(13886) |
| 13687 | 4 | M | C | P(13887) |
| 13688 | 1 | M | C | P(13888) |
| 13689 | 1 | M | C | P(13889) |
| 13690 | 4 | M | C | P(13890) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B16 (PAGE 4): MATING AND FERTILITY - INDIVIDUAL DATA - P GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 13691 | 4 | M | C | P(13891) |
| 13692 | 4 | M | C | P(13892) |
| 13693 | 1 | M | C | P(13893) |
| 13694 | 2 | M | C | P(13894) |
| 13695 | 2 | M | C | P(13895) |
| 13696 | 2 | M | C | P(13896) |
| 13697 | 4 | M | C | P(13897) |
| 13698 | 1 | M | C | P(13898) |
| 13699 | 3 | M | C | P(13899) |
| 13700 | 14 | DID NOT MATE | - | -(13900) |
| 13701 | 4 | M | C | P(13901) |
| 13702 | 2 | M | C | P(13902) |
| 13703 | 3 | M | C | P(13903) |
| 13704 | 3 | M | C | P(13904) |
| 13705 | 4 | M | C | P(13905) |
| 13706 | 14 | M | NC | P(13906) |
| 13707 | 2 | M | C | P(13907) |
| 13708 | 1 | M | C | P(13908) |
| 13709 | 4 | M | C | P(13909) |
| 13710 | 2 | M | C | P(13910) |
| 13711 | 1 | M | C | P(13911) |
| 13712 | 2 | M | C | P(13912) |
| 13713 | 3 | M | C | P(13913) |
| 13714 | 3 | M | C | P(13914) |
| 13715 | 4 | M | C | P(13915) |
| 13716 | 3 | M | C | P(13916) |
| 13717 | 14 | M | NC | P(13917) |
| 13718 | 4 | M | C | P(13918) |
| 13719 | 3 | M | C | P(13919) |
| 13720 | 3 | M | C | P(13920) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B16 (PAGE 5): MATING AND FERTILITY - INDIVIDUAL DATA - P GENERATION MALE RATS

DOSAGE GROUP V 30 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 13721 | 2 | M | C | P(13921) |
| 13722 | 2 | M | C | P(13922) |
| 13723a | 1 | M | C | P(13923) |
| 13723b | 3 | M | C | P(13950) |
| 13724 | 1 | M | C | P(13924) |
| 13725 | 4 | M | C | P(13925) |
| 13726 | 2 | M | C | P(13926) |
| 13727 | 2 | M | C | P(13927) |
| 13728 | 1 | M | C | P(13928) |
| 13729 | 3 | M | C | NP(13929) |
| 13730 | 2 | M | C | P(13930) |
| 13731 | 4 | M | C | P(13931) |
| 13732 | MORIBUND SACRIFICED ON DAY 45 OF STUDY | | | |
| 13733 | 3 | M | C | P(13932) |
| 13734 | 4 | M | C | P(13933) |
| 13735 | 14 | M | NC | P(13934) |
| 13736 | 2 | M | C | P(13935) |
| 13737 | 4 | M | C | P(13936) |
| 13738 | 3 | M | C | P(13937) |
| 13739 | 2 | M | C | P(13938) |
| 13740 | 2 | M | C | P(13939) |
| 13741 | 5 | M | C | P(13940) |
| 13742 | 1 | M | C | P(13941) |
| 13743 | 1 | M | C | P(13942) |
| 13744 | 1 | M | C | P(13943) |
| 13745 | 2 | M | C | P(13944) |
| 13746 | 6 | M | C | P(13945) |
| 13747 | 4 | M | C | P(13946) |
| 13748 | 1 | M | C | P(13947) |
| 13749 | 4 | M | C | P(13948) |
| 13750 | 3 | M | C | P(13949) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT
a. Result of first cohabitation period.
b. Male rat mated early in the first cohabitation period and was cohabited with a second female rat.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B17 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| I | | | | |
| 0 | 13601 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13602 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13603 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13604 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13605 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13606 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13607 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13608 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13609 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13610 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13611 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13612 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13613 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13614 | DS 108 | 107 | LUNGS: ALL LOBES, NUMEROUS DARK RED AREAS (PINPOINT TO 2.0 CM X 2.0 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 13615 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13616 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13617 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13618 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13619 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13620 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13621 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13622 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13623 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13624 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13625 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13626 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13627 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13628 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13629 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13630 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY

a. Refer to the individual clinical observations table (Table B12) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B17 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT<br>NUMBER | DAY OF<br>NECROPSY | DOSAGES<br>ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| II<br>1 | 13631 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13632 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13633 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13634 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13635 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13636 | DS 106 | 105 | TESTES: RIGHT, SMALL AND FLACCID.<br>EPIDIDYMIDES: RIGHT, SMALL AND FLACCID.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13637 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13638 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13639 | DS 107 | 106 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13640 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13641 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13642 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13643 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13644 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13645 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13646 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13647 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13648 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13649 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13650 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13651 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13652 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13653 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13654 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13655 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13656 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13657 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13658 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13659 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13660 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY
a. Refer to the individual clinical observations table (Table B12) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B17 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| III | | | | |
| 3 | 13661 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13662 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13663 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13664 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13665 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13666 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13667 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13668 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13669 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13670 | DS 107 | 106 | KIDNEYS: RIGHT, PELVIS, MODERATE DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13671 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13672 | DS 107 | 106 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13673 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13674 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13675 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13676 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13677 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13678 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13679 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13680 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13681 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13682 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13683 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13684 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13685 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13686 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13687 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13688 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13689 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13690 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY

a. Refer to the individual clinical observations table (Table B12) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B17 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| IV | | | | |
| 10 | 13691 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13692 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13693 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13694 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13695 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13696 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13697 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13698 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13699 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13700 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13701 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13702 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13703 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13704 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13705 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13706 | DS 108 | 107 | TESTES: RIGHT, SMALL AND FLACCID.<br>EPIDIDYMIDES: RIGHT, SMALL AND FLACCID.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13707 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13708 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13709 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13710 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13711 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13712 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13713 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13714 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13715 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13716 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13717 | DS 110 | 109 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13718 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13719 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13720 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY

a. Refer to the individual clinical observations table (Table B12) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B17 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| V | | | | |
| 30 | 13721 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13722 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13723 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13724 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13725 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13726 | DS 106 | 105 | ALL TISSUES APPEARED NORMAL. |
| | 13727 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13728 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13729 | DS 107 | 106 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13730 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13731 | DS 107 | 106 | ALL TISSUES APPEARED NORMAL. |
| | 13732 | DS 45 | 44 | MORIBUND SACRIFICED ON DAY 45 OF STUDY.<br>LIVER: ALL LOBES, TAN AND PALE.<br>TESTES: BILATERAL, RED.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13733 | DS 108 | 107 | EPIDIDYMIDES: LEFT, SMALL AND FLACCID.<br>KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13734 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13735 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13736 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13737 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13738 | DS 108 | 107 | ALL TISSUES APPEARED NORMAL. |
| | 13739 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13740 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY
a. Refer to the individual clinical observations table (Table B12) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B17 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| V 30 (Cont.) | 13741 | DS 109 | 108 | TESTES: BILATERAL, SMALL AND FLACCID.<br>EPIDIDYMIDES: BILATERAL, SMALL AND FLACCID.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13742 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13743 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13744 | DS 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13745 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13746 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13747 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13748 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13749 | DS 110 | 109 | ALL TISSUES APPEARED NORMAL. |
| | 13750 | DS 110 | 109 | TESTES: LEFT, LARGE.<br>ALL OTHER TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY

a. Refer to the individual clinical observations table (Table B12) for external observations confirmed at necropsy.

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TABLE B18 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13601 | 592. | 0.6756 | 0.11 | 0.2966 | 0.05 | 1.5259 | 0.26 | 1.2920 | 0.22 | 1.3897 | 0.23 | 0.9914 | 0.17 |
| 13602 | 610. | 0.6786 | 0.11 | 0.3086 | 0.05 | 1.6647 | 0.27 | 1.5221 | 0.25 | 2.2138 | 0.36 | 1.2279 | 0.20 |
| 13603 | 570. | 0.7340 | 0.13 | 0.3341 | 0.06 | 1.7979 | 0.32 | 1.6608 | 0.29 | 2.2003 | 0.39 | 1.3738 | 0.24 |
| 13604 | 633. | 0.7152 | 0.11 | 0.3136 | 0.05 | 1.9262 | 0.30 | 1.7009 | 0.27 | 1.6708 | 0.26 | 1.1445 | 0.18 |
| 13605 | 533. | 0.7034 | 0.13 | 0.3543 | 0.07 | 1.8636 | 0.35 | 1.7079 | 0.32 | 2.1486 | 0.40 | 1.1320 | 0.21 |
| 13606 | 653. | 0.7420 | 0.11 | 0.3611 | 0.06 | 1.8832 | 0.29 | 1.7583 | 0.27 | 1.7423a | 0.27a | 1.2432 | 0.19 |
| 13607 | 543. | 0.6822 | 0.12 | 0.3203 | 0.06 | 1.8506 | 0.34 | 1.7435 | 0.32 | 2.1930 | 0.40 | 1.0702 | 0.20 |
| 13608 | 567. | 0.7947 | 0.14 | 0.3453 | 0.06 | 1.8574 | 0.33 | 1.7354 | 0.31 | 2.1517 | 0.38 | 1.2132 | 0.21 |
| 13609 | 609. | 0.5497 | 0.09 | 0.2145 | 0.04 | 1.6417 | 0.27 | 1.4397 | 0.24 | 2.6536 | 0.44 | 1.4047 | 0.23 |
| 13610 | 569. | 0.6732 | 0.12 | 0.2883 | 0.05 | 1.5787 | 0.28 | 1.4846 | 0.26 | 2.7678 | 0.49 | 1.3165 | 0.23 |
| 13611 | 634. | 0.6526 | 0.10 | 0.3271 | 0.05 | 1.7823 | 0.28 | 1.6617 | 0.26 | 2.1404 | 0.34 | 1.1786 | 0.18 |
| 13612 | 557. | 0.6830 | 0.12 | 0.2887 | 0.05 | 1.7653 | 0.32 | 1.6275 | 0.29 | 2.4939 | 0.45 | 1.3161 | 0.24 |
| 13613 | 559. | 0.6764 | 0.12 | 0.3010 | 0.05 | 1.7861 | 0.32 | 1.6113 | 0.29 | 1.9469 | 0.35 | 1.3192 | 0.24 |
| 13614 | 536. | 0.6695 | 0.12 | 0.2733 | 0.05 | 1.5910 | 0.30 | 1.4794 | 0.28 | 2.2970 | 0.43 | 1.0604 | 0.20 |
| 13615 | 586. | 0.7240 | 0.12 | 0.3652 | 0.06 | 1.9534 | 0.33 | 1.8326 | 0.31 | 2.5074 | 0.43 | 1.4403 | 0.24 |
| 13616 | 639. | 0.7570 | 0.12 | 0.3567 | 0.06 | 1.9754 | 0.31 | 1.8243 | 0.28 | 2.5305 | 0.40 | 1.3395 | 0.21 |
| 13617 | 513. | 0.7783 | 0.15 | 0.3479 | 0.07 | 1.7610 | 0.34 | 1.6507 | 0.32 | 2.1888 | 0.43 | 1.2973 | 0.25 |
| 13618 | 556. | 0.7269 | 0.13 | 0.3458 | 0.06 | 1.8719 | 0.34 | 1.7273 | 0.31 | 2.3224 | 0.42 | 1.3218 | 0.24 |
| 13619 | 571. | 0.7967 | 0.14 | 0.3973 | 0.07 | 1.9766 | 0.35 | 1.8446 | 0.32 | 2.6549 | 0.46 | 1.5503 | 0.27 |
| 13620 | 566. | 0.7542 | 0.13 | 0.3459 | 0.06 | 1.8314 | 0.32 | 1.7046 | 0.30 | 2.1074 | 0.37 | 1.0458 | 0.18 |
| 13621 | 527. | 0.6623 | 0.12 | 0.3287 | 0.06 | 1.6391 | 0.31 | 1.5212 | 0.29 | 2.4345 | 0.46 | 1.3000 | 0.25 |
| 13622 | 559. | 0.7321 | 0.13 | 0.3161 | 0.06 | 1.7766 | 0.32 | 1.6795 | 0.30 | 2.2753 | 0.41 | 1.2186 | 0.22 |
| 13623 | 588. | 0.7364 | 0.12 | 0.3896 | 0.07 | 1.6860 | 0.29 | 1.5789 | 0.27 | 2.0262 | 0.34 | 1.1769 | 0.20 |
| 13624 | 527. | 0.7481 | 0.14 | 0.3361 | 0.06 | 1.8174 | 0.34 | 1.6876 | 0.32 | 1.8379 | 0.35 | 0.9276 | 0.18 |
| 13625 | 578. | 0.7424 | 0.13 | 0.2999 | 0.05 | 1.7695 | 0.31 | 1.6738 | 0.29 | 2.9931 | 0.52 | 1.3586 | 0.24 |
| 13626 | 656. | 0.8408 | 0.13 | 0.3786 | 0.06 | 1.9527 | 0.30 | 1.8342 | 0.28 | 2.6403 | 0.40 | 1.4879 | 0.23 |
| 13627 | 568. | 0.7204 | 0.13 | 0.3192 | 0.06 | 1.6706 | 0.29 | 1.5585 | 0.27 | 2.4498 | 0.43 | 1.3752 | 0.24 |
| 13628 | 635. | 0.7515 | 0.12 | 0.3760 | 0.06 | 1.8851 | 0.30 | 1.7864 | 0.28 | 2.6437 | 0.42 | 1.5575 | 0.24 |
| 13629 | 558. | 0.6810 | 0.12 | 0.3307 | 0.06 | 1.6630 | 0.30 | 1.5519 | 0.28 | 2.3510 | 0.42 | 1.3665 | 0.24 |
| 13630 | 628. | 0.8494 | 0.14 | 0.3993 | 0.06 | 2.1140 | 0.34 | 1.9567 | 0.31 | 2.0128 | 0.32 | 1.3021 | 0.21 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Damaged during processing (some fluid loss prior to weighing); values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B18 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % TBW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % TBW | PROSTATE ABS. WT. | PROSTATE REL. % TBW | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13601 | 592. | 0.6727 | 0.11 | 1.5705 | 0.26 | 0.9769 | 0.16 | 0.016 | 2.70 | 2.36 | 0.40 | 23.61 | 3.99 |
| 13602 | 610. | 0.6538 | 0.11 | 1.5701 | 0.26 | 1.0477 | 0.17 | 0.014 | 2.30 | 2.38 | 0.39 | 22.78 | 3.73 |
| 13603 | 570. | 0.7422 | 0.13 | 1.8434 | 0.32 | 1.1461 | 0.20 | 0.012 | 2.10 | 2.19 | 0.38 | 18.43 | 3.23 |
| 13604 | 633. | 0.7242 | 0.11 | 1.8830 | 0.30 | 1.2982 | 0.20 | 0.016 | 2.53 | 2.40 | 0.38 | 20.30 | 3.21 |
| 13605 | 533. | 0.7013 | 0.13 | 1.8294 | 0.34 | 0.8545 | 0.16 | 0.014 | 2.63 | 2.22 | 0.42 | 15.86 | 2.98 |
| 13606 | 653. | 0.7714 | 0.12 | 1.9176 | 0.29 | 1.2630 | 0.19 | 0.009 | 1.38 | 2.24 | 0.34 | 22.82 | 3.49 |
| 13607 | 543. | 0.6884 | 0.13 | 1.8831 | 0.35 | 1.4560 | 0.27 | 0.014 | 2.58 | 2.35 | 0.43 | 18.53 | 3.41 |
| 13608 | 567. | 0.7813 | 0.14 | 1.9010 | 0.34 | 1.3797 | 0.24 | 0.015 | 2.64 | 2.33 | 0.41 | 19.26 | 3.40 |
| 13609 | 609. | 0.6624 | 0.11 | 2.3432 | 0.38 | 1.2521 | 0.20 | 0.029 | 4.76 | 2.11 | 0.35 | 23.25 | 3.82 |
| 13610 | 569. | 0.6645 | 0.12 | 1.5825 | 0.28 | 1.1033 | 0.19 | 0.017 | 2.99 | 1.86 | 0.33 | 22.41 | 3.94 |
| 13611 | 634. | 0.6452 | 0.10 | 1.8363 | 0.29 | 1.1326 | 0.18 | 0.018 | 2.84 | 2.32 | 0.36 | 22.68 | 3.58 |
| 13612 | 557. | 0.7042 | 0.13 | 1.8260 | 0.33 | 1.0173 | 0.18 | 0.012 | 2.15 | 2.11 | 0.38 | 17.03 | 3.06 |
| 13613 | 559. | 0.6920 | 0.12 | 1.8150 | 0.32 | 1.2060 | 0.22 | 0.013 | 2.32 | 2.51 | 0.45 | 21.60 | 3.86 |
| 13614 | 536. | 0.6590 | 0.12 | 1.5240 | 0.28 | 1.2564 | 0.23 | 0.016 | 2.98 | 2.19 | 0.41 | 20.68 | 3.86 |
| 13615 | 586. | 0.7307 | 0.12 | 1.9427 | 0.33 | 1.0383 | 0.18 | 0.012 | 2.05 | 2.25 | 0.38 | 20.97 | 3.58 |
| 13616 | 639. | 0.7448 | 0.12 | 1.9684 | 0.31 | 0.9796 | 0.15 | 0.015 | 2.35 | 2.52 | 0.39 | 25.02 | 3.92 |
| 13617 | 513. | 0.8023 | 0.16 | 1.7778 | 0.35 | 1.0554 | 0.20 | 0.013 | 2.53 | 2.52 | 0.49 | 16.93 | 3.30 |
| 13618 | 556. | 0.6947 | 0.12 | 1.7963 | 0.32 | 1.0403 | 0.19 | 0.008 | 1.44 | 2.27 | 0.41 | 19.31 | 3.47 |
| 13619 | 571. | 0.8216 | 0.14 | 2.0150 | 0.35 | 1.1757 | 0.20 | 0.016 | 2.80 | 2.33 | 0.41 | 21.32 | 3.73 |
| 13620 | 566. | 0.6324 | 0.11 | 1.7662 | 0.31 | 1.3352 | 0.24 | 0.014 | 2.47 | 2.21 | 0.39 | 20.80 | 3.67 |
| 13621 | 527. | 0.6737 | 0.13 | 1.7174 | 0.32 | 1.1837 | 0.22 | 0.012 | 2.28 | 2.15 | 0.41 | 16.17 | 3.07 |
| 13622 | 559. | 0.6907 | 0.12 | 1.6943 | 0.30 | 1.2359 | 0.22 | 0.009 | 1.61 | 2.22 | 0.40 | 18.88 | 3.38 |
| 13623 | 588. | 0.7404 | 0.12 | 1.7379 | 0.30 | 1.2678 | 0.22 | 0.015 | 2.55 | 2.45 | 0.42 | 19.31 | 3.28 |
| 13624 | 527. | 0.7047 | 0.13 | 1.8086 | 0.34 | 0.9132 | 0.17 | 0.011 | 2.09 | 1.83 | 0.35 | 18.10 | 3.43 |
| 13625 | 578. | 0.7624 | 0.13 | 1.7619 | 0.30 | 1.1731 | 0.20 | 0.014 | 2.42 | 2.25b | 0.39 | 19.76 | 3.42 |
| 13626 | 656. | 0.8685 | 0.13 | 1.9505 | 0.30 | 1.6005 | 0.24 | 0.018 | 2.74 | 2.33 | 0.36 | 24.67 | 3.76 |
| 13627 | 568. | 0.7318 | 0.13 | 1.6434 | 0.29 | 1.1031 | 0.19 | 0.011 | 1.94 | 2.17 | 0.38 | 17.86 | 3.14 |
| 13628 | 635. | 0.7165 | 0.11 | 1.8347 | 0.29 | 0.8151 | 0.13 | 0.012 | 1.89 | 2.10 | 0.33 | 22.09 | 3.48 |
| 13629 | 558. | 0.6744 | 0.12 | 1.6857 | 0.30 | 1.0534 | 0.19 | 0.011 | 1.97 | 2.10 | 0.38 | 18.41 | 3.30 |
| 13630 | 628. | 0.8078 | 0.13 | 2.0934 | 0.33 | 0.7730 | 0.12 | 0.014 | 2.23 | 2.43 | 0.39 | 20.24 | 3.22 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

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TABLE B18 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13601 | 592. | 2.17 | 0.37 | 2.19 | 0.37 | 0.030 | 5.07 | 0.031 | 5.24 | 0.75 | 0.13 | 0.38 | 0.06 |
| 13602 | 610. | 2.55 | 0.42 | 2.55 | 0.42 | 0.032 | 5.24 | 0.035 | 5.74 | 0.96 | 0.16 | 0.63 | 0.10 |
| 13603 | 570. | 1.90 | 0.33 | 1.96 | 0.34 | 0.031 | 5.44 | 0.026 | 4.56 | 0.69 | 0.12 | 0.38 | 0.07 |
| 13604 | 633. | 2.33 | 0.37 | 2.28 | 0.36 | 0.026 | 4.11 | 0.033 | 5.21 | 1.11 | 0.18 | 0.69 | 0.11 |
| 13605 | 533. | 2.26 | 0.42 | 2.25 | 0.42 | 0.029 | 5.44 | 0.028 | 5.25 | 1.00 | 0.19 | 0.45 | 0.08 |
| 13606 | 653. | 2.25 | 0.34 | 2.39 | 0.37 | 0.044 | 6.74 | 0.039 | 5.97 | 1.20 | 0.18 | 0.55 | 0.08 |
| 13607 | 543. | 2.17 | 0.40 | 2.14 | 0.39 | 0.046 | 8.47 | 0.021 | 3.87 | 0.83 | 0.15 | 0.41 | 0.08 |
| 13608 | 567. | 2.12 | 0.37 | 2.15 | 0.38 | 0.031 | 5.47 | 0.033 | 5.82 | 0.90 | 0.16 | 0.52 | 0.09 |
| 13609 | 609. | 2.33 | 0.38 | 2.43 | 0.40 | 0.031 | 5.09 | 0.029 | 4.76 | 1.04 | 0.17 | 0.42 | 0.07 |
| 13610 | 569. | 2.31 | 0.40 | 2.29 | 0.40 | 0.028 | 4.92 | 0.028 | 4.92 | 0.76 | 0.13 | 0.32 | 0.06 |
| 13611 | 634. | 2.47 | 0.39 | 2.38 | 0.38 | 0.035 | 5.52 | 0.038 | 5.99 | 0.94 | 0.15 | 0.29 | 0.04 |
| 13612 | 557. | 2.18 | 0.39 | 2.21 | 0.40 | 0.033 | 5.92 | 0.032 | 5.74 | 0.79 | 0.14 | 0.34 | 0.06 |
| 13613 | 559. | 2.50 | 0.45 | 2.32 | 0.42 | 0.029 | 5.19 | 0.033 | 5.90 | 0.98 | 0.18 | 0.49 | 0.09 |
| 13614 | 536. | 2.53 | 0.47 | 2.31 | 0.43 | 0.028 | 5.22 | 0.027 | 5.04 | 0.98 | 0.18 | 0.49 | 0.09 |
| 13615 | 586. | 1.85 | 0.32 | 2.03 | 0.35 | 0.035 | 5.97 | 0.039 | 6.66 | 1.01 | 0.17 | 0.40 | 0.07 |
| 13616 | 639. | 2.58 | 0.40 | 2.61 | 0.41 | 0.042 | 6.57 | 0.035 | 5.48 | 1.26 | 0.20 | 0.41 | 0.06 |
| 13617 | 513. | 1.92 | 0.37 | 2.05 | 0.40 | 0.032 | 6.24 | 0.031 | 6.04 | 1.12 | 0.22 | 0.50 | 0.10 |
| 13618 | 556. | 1.99 | 0.36 | 1.89 | 0.34 | 0.032 | 5.76 | 0.036 | 6.47 | 0.80 | 0.14 | 0.32 | 0.06 |
| 13619 | 571. | 2.09 | 0.37 | 2.03 | 0.36 | 0.035 | 6.13 | 0.033 | 5.78 | 0.93 | 0.16 | 0.39 | 0.07 |
| 13620 | 566. | 2.02 | 0.36 | 1.99 | 0.35 | 0.028 | 4.95 | 0.029 | 5.12 | 1.32 | 0.23 | 0.52 | 0.09 |
| 13621 | 527. | 2.15 | 0.41 | 2.12 | 0.40 | 0.027 | 5.12 | 0.023 | 4.36 | 0.85 | 0.16 | 0.40 | 0.08 |
| 13622 | 559. | 2.30 | 0.41 | 2.20 | 0.39 | 0.035 | 6.26 | 0.045 | 8.05 | 0.68 | 0.12 | 0.44 | 0.08 |
| 13623 | 588. | 2.10 | 0.36 | 2.30 | 0.39 | 0.033 | 5.61 | 0.031 | 5.27 | 0.80 | 0.14 | 0.33 | 0.06 |
| 13624 | 527. | 2.11 | 0.40 | 2.15 | 0.41 | 0.027 | 5.12 | 0.022 | 4.17 | 0.87 | 0.16 | 0.57 | 0.11 |
| 13625 | 578. | 1.99 | 0.34 | 2.09 | 0.36 | 0.027 | 4.67 | 0.027 | 4.67 | 0.87 | 0.15 | 0.31 | 0.05 |
| 13626 | 656. | 2.28 | 0.35 | 2.34 | 0.36 | 0.034 | 5.18 | 0.036 | 5.49 | 0.96 | 0.15 | 0.49 | 0.07 |
| 13627 | 568. | 2.09 | 0.37 | 2.05 | 0.36 | 0.032 | 5.63 | 0.036 | 6.34 | 0.94 | 0.16 | 0.42 | 0.07 |
| 13628 | 635. | 2.08 | 0.33 | 2.01 | 0.32 | 0.035 | 5.51 | 0.031 | 4.88 | 1.07 | 0.17 | 0.50 | 0.08 |
| 13629 | 558. | 2.03 | 0.36 | 1.99 | 0.36 | 0.029 | 5.20 | 0.033 | 5.91 | 0.68 | 0.12 | 0.26 | 0.05 |
| 13630 | 628. | 2.07 | 0.33 | 2.03 | 0.32 | 0.032 | 5.10 | 0.028 | 4.46 | 0.97 | 0.15 | 0.46 | 0.07 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

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TABLE B18 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13631 | 548. | 0.6495 | 0.12 | 0.2998 | 0.05 | 1.6770 | 0.31 | 1.5445 | 0.28 | 2.4075 | 0.44 | 1.5081 | 0.28 |
| 13632 | 558. | 0.7034 | 0.13 | 0.3166 | 0.06 | 1.9768 | 0.35 | 1.8290 | 0.33 | 2.8763 | 0.52 | 1.4047 | 0.25 |
| 13633 | 502. | 0.7044 | 0.14 | 0.3546 | 0.07 | 1.7819 | 0.35 | 1.6458 | 0.33 | 3.2227 | 0.64 | 1.5709 | 0.31 |
| 13634 | 607. | 0.7068 | 0.12 | 0.3369 | 0.06 | 1.8226 | 0.30 | 1.6586 | 0.27 | 1.6848 | 0.28 | 1.1637 | 0.19 |
| 13635 | 526. | 0.6053 | 0.12 | 0.2813 | 0.05 | 1.6595 | 0.32 | 1.5483 | 0.29 | 1.4917 | 0.28 | 0.8167 | 0.16 |
| 13636 | 587. | 0.7697 | 0.13 | 0.3525 | 0.06 | 1.8739 | 0.32 | 1.6712 | 0.28 | 2.3337 | 0.40 | 1.2939 | 0.22 |
| 13637 | 645. | 0.7061 | 0.11 | 0.3434 | 0.05 | 1.6545 | 0.26 | 1.5240 | 0.24 | 2.5335 | 0.39 | 1.3047 | 0.20 |
| 13638 | 624. | 0.6470 | 0.10 | 0.2792 | 0.04 | 1.9344 | 0.31 | 1.8105 | 0.29 | 2.3501 | 0.38 | 1.1924 | 0.19 |
| 13639 | 579. | 0.7020 | 0.12 | 0.2951 | 0.05 | 2.0283 | 0.35 | 1.8573 | 0.32 | 2.3202 | 0.40 | 1.0796 | 0.19 |
| 13640 | 623. | 0.7283 | 0.12 | 0.3536 | 0.06 | 1.8745 | 0.30 | 1.7670 | 0.28 | 2.6251 | 0.42 | 1.3840 | 0.22 |
| 13641 | 548. | 0.7490 | 0.14 | 0.3527 | 0.06 | 1.8714 | 0.34 | 1.7242 | 0.31 | 2.3899 | 0.44 | 1.2356 | 0.22 |
| 13642 | 572. | 0.7241 | 0.13 | 0.3150 | 0.06 | 1.7279 | 0.30 | 1.6227 | 0.28 | 2.4003 | 0.42 | 1.2870 | 0.22 |
| 13643 | 603. | 0.7330 | 0.12 | 0.3398 | 0.06 | 1.9500 | 0.32 | 1.8364 | 0.30 | 2.5036 | 0.42 | 1.2468 | 0.21 |
| 13644 | 592. | 0.7089 | 0.12 | 0.3200 | 0.05 | 1.9383 | 0.33 | 1.8199 | 0.31 | 2.1300 | 0.36 | 1.2740 | 0.22 |
| 13645 | 567. | 0.6784 | 0.12 | 0.3183 | 0.06 | 1.6234 | 0.29 | 1.5062 | 0.26 | 2.4119 | 0.42 | 1.2195 | 0.22 |
| 13646 | 549. | 0.6822 | 0.12 | 0.3463 | 0.06 | 1.6999 | 0.31 | 1.5800 | 0.29 | 2.0676 | 0.38 | 1.1076 | 0.20 |
| 13647 | 577. | 0.6658 | 0.12 | 0.2982 | 0.05 | 1.7814 | 0.31 | 1.6328 | 0.28 | 2.6220 | 0.45 | 1.4890 | 0.26 |
| 13648 | 623. | 0.6317 | 0.10 | 0.3064 | 0.05 | 1.8391 | 0.30 | 1.7159 | 0.28 | 2.1504 | 0.34 | 1.1768 | 0.19 |
| 13649 | 528. | 0.6941 | 0.13 | 0.3058 | 0.06 | 1.7156 | 0.32 | 1.6256 | 0.31 | 2.2035 | 0.42 | 1.1379 | 0.22 |
| 13650 | 584. | 0.7437 | 0.13 | 0.2876 | 0.05 | 1.9510 | 0.33 | 1.8355 | 0.31 | 2.4213 | 0.41 | 1.4614 | 0.25 |
| 13651 | 597. | 0.7134 | 0.12 | 0.3282 | 0.05 | 1.9750 | 0.33 | 1.8339 | 0.31 | 2.5200 | 0.42 | 1.4917 | 0.25 |
| 13652 | 569. | 0.7191 | 0.13 | 0.3231 | 0.06 | 1.7946 | 0.32 | 1.6913 | 0.30 | 2.4900 | 0.44 | 1.2234 | 0.22 |
| 13653 | 520. | 0.6303 | 0.12 | 0.2784 | 0.05 | 1.8551 | 0.36 | 1.6992 | 0.33 | 1.6932 | 0.32 | 1.0140 | 0.20 |
| 13654 | 589. | 0.6840 | 0.12 | 0.2935 | 0.05 | 1.5110 | 0.26 | 1.4044 | 0.24 | 2.3628 | 0.40 | 1.1243 | 0.19 |
| 13655 | 647. | 0.8054 | 0.12 | 0.3335 | 0.05 | 2.1552 | 0.33 | 1.9836 | 0.31 | 2.8403 | 0.44 | 1.4880 | 0.23 |
| 13656 | 517. | 0.7198 | 0.14 | 0.3468 | 0.07 | 1.7050 | 0.33 | 1.6041 | 0.31 | 2.2805 | 0.44 | 1.2083 | 0.23 |
| 13657 | 475. | 0.6277 | 0.13 | 0.3055 | 0.06 | 1.7519 | 0.37 | 1.6518 | 0.35 | 2.1178 | 0.44 | 1.0602 | 0.22 |
| 13658 | 576. | 0.6425 | 0.11 | 0.2637 | 0.04 | 1.5617 | 0.27 | 1.4618 | 0.25 | 2.1529 | 0.37 | 1.1517 | 0.20 |
| 13659 | 531. | 0.7407 | 0.14 | 0.3172 | 0.06 | 1.9318 | 0.36 | 1.8052 | 0.34 | 2.1495 | 0.40 | 1.2183 | 0.23 |
| 13660 | 697. | 0.7581 | 0.11 | 0.3225 | 0.05 | 1.6871 | 0.24 | 1.5755 | 0.23 | 2.2241 | 0.32 | 1.2827 | 0.18 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B18 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % TBW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % TBW | PROSTATE ABS. WT. | PROSTATE REL. % TBW | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13631 | 548. | 0.6184 | 0.11 | 1.6665 | 0.30 | 1.2524 | 0.23 | 0.016 | 2.92 | 2.22 | 0.40 | 23.73 | 4.33 |
| 13632 | 558. | 0.7187 | 0.13 | 2.0272 | 0.36 | 1.3965 | 0.25 | 0.015 | 2.69 | 2.34 | 0.42 | 26.29 | 4.71 |
| 13633 | 502. | 0.7346 | 0.15 | 1.8301 | 0.36 | 1.1854 | 0.24 | 0.020 | 3.98 | 2.43 | 0.48 | 20.13 | 4.01 |
| 13634 | 607. | 0.7092 | 0.12 | 1.8432 | 0.30 | 0.9863 | 0.16 | 0.015 | 2.47 | 2.13 | 0.35 | 24.69 | 4.07 |
| 13635 | 526. | 0.6527 | 0.12 | 1.7937 | 0.34 | 1.1001 | 0.21 | 0.010 | 1.90 | 2.07 | 0.39 | 23.30 | 4.43 |
| 13636 | 587. | 0.3677b | 0.06 | 0.8983b | 0.15 | 1.2274 | 0.21 | 0.012 | 2.04 | 2.17 | 0.37 | 27.55 | 4.69 |
| 13637 | 645. | 0.7132 | 0.11 | 1.6779 | 0.26 | 1.1159 | 0.17 | 0.016 | 2.48 | 2.26 | 0.35 | 25.31 | 3.92 |
| 13638 | 624. | 0.6219 | 0.10 | 1.9129 | 0.31 | 1.3568 | 0.22 | 0.017 | 2.72 | 2.43 | 0.39 | 26.08 | 4.18 |
| 13639 | 579. | 0.6966 | 0.12 | 2.0712 | 0.36 | 1.0950 | 0.19 | 0.008 | 1.38 | 2.42 | 0.42 | 26.73 | 4.62 |
| 13640 | 623. | 0.6905 | 0.11 | 1.9493 | 0.31 | 0.9987 | 0.16 | 0.017 | 2.73 | 2.20 | 0.35 | 32.23 | 5.17 |
| 13641 | 548. | 0.7322 | 0.13 | 1.8401 | 0.34 | 0.9751 | 0.18 | 0.015 | 2.74 | 2.26 | 0.41 | 25.22 | 4.60 |
| 13642 | 572. | 0.7423 | 0.13 | 1.7467 | 0.30 | 1.2793 | 0.22 | 0.012 | 2.10 | 2.34 | 0.41 | 19.48 | 3.40 |
| 13643 | 603. | 0.7523 | 0.12 | 2.5181 | 0.42 | 1.1153 | 0.18 | 0.016 | 2.65 | 2.21 | 0.37 | 25.04 | 4.15 |
| 13644 | 592. | 0.7081 | 0.12 | 1.8376 | 0.31 | 1.1768 | 0.20 | 0.009 | 1.52 | 2.44 | 0.41 | 24.65 | 4.16 |
| 13645 | 567. | 0.6380 | 0.11 | 1.5823 | 0.28 | 1.0379 | 0.18 | 0.019 | 3.35 | 2.25 | 0.40 | 23.13 | 4.08 |
| 13646 | 549. | 0.6909 | 0.12 | 1.7069 | 0.31 | 1.4184 | 0.26 | 0.012 | 2.18 | 2.31 | 0.42 | 22.38 | 4.08 |
| 13647 | 577. | 0.6756 | 0.12 | 2.6503 | 0.46 | 0.6843 | 0.12 | 0.013 | 2.25 | 2.25 | 0.39 | 25.86 | 4.48 |
| 13648 | 623. | 0.6579 | 0.10 | 1.9075 | 0.31 | 1.0489 | 0.17 | 0.011 | 1.76 | 2.33 | 0.37 | 22.58 | 3.62 |
| 13649 | 528. | 0.6966 | 0.13 | 1.6978 | 0.32 | 1.4685 | 0.28 | 0.015 | 2.84 | 2.35 | 0.44 | 29.17 | 5.52 |
| 13650 | 584. | 0.7426 | 0.13 | 2.0238 | 0.35 | 1.1363 | 0.19 | 0.012 | 2.05 | 2.32 | 0.40 | 22.99 | 3.94 |
| 13651 | 597. | 0.7281 | 0.12 | 1.9809 | 0.33 | 0.8039 | 0.13 | 0.013 | 2.18 | 2.38 | 0.40 | 22.73 | 3.81 |
| 13652 | 569. | 0.7464 | 0.13 | 1.8349 | 0.32 | 0.9861 | 0.17 | 0.016 | 2.81 | 2.26 | 0.40 | 22.86 | 4.02 |
| 13653 | 520. | 0.6316 | 0.12 | 1.7942 | 0.34 | 1.1095 | 0.21 | 0.010 | 1.92 | 2.37 | 0.46 | 17.07 | 3.28 |
| 13654 | 589. | 0.6388 | 0.11 | 1.5501 | 0.26 | 1.2735 | 0.22 | 0.015 | 2.55 | 2.23 | 0.38 | 26.32 | 4.47 |
| 13655 | 647. | 0.7879 | 0.12 | 2.1403 | 0.33 | 0.9730 | 0.15 | 0.014 | 2.16 | 2.33 | 0.36 | 29.05 | 4.49 |
| 13656 | 517. | 0.7250 | 0.14 | 1.7659 | 0.34 | 1.6851 | 0.32 | 0.014 | 2.71 | 2.31 | 0.45 | 19.16 | 3.70 |
| 13657 | 475. | 0.6460 | 0.14 | 1.7433 | 0.37 | 1.1798 | 0.25 | 0.013 | 2.74 | 2.10 | 0.44 | 23.90 | 5.03 |
| 13658 | 576. | 0.6287 | 0.11 | 1.5591 | 0.27 | 0.8826 | 0.15 | 0.016 | 2.78 | 2.31 | 0.40 | 22.05 | 3.83 |
| 13659 | 531. | 0.7940 | 0.15 | 2.0007 | 0.38 | 1.1305 | 0.21 | 0.013 | 2.45 | 2.17c | 0.41 | 21.10 | 3.97 |
| 13660 | 697. | 0.7865 | 0.11 | 1.6440 | 0.24 | 1.1982 | 0.17 | 0.014 | 2.01 | 2.28 | 0.33 | 27.36 | 3.92 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Rat 13636 had a small and flaccid right epididymis and right testis. See the individual necropsy observations table (Table B16).
c. Damaged during processing (weight not affected).

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TABLE B18 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13631 | 548. | 2.49 | 0.45 | 2.48 | 0.45 | 0.034 | 6.20 | 0.034 | 6.20 | 0.95 | 0.17 | 0.39 | 0.07 |
| 13632 | 558. | 2.97 | 0.53 | 2.84 | 0.51 | 0.038 | 6.81 | 0.038 | 6.81 | 0.92 | 0.16 | 0.38 | 0.07 |
| 13633 | 502. | 2.67 | 0.53 | 2.62 | 0.52 | 0.032 | 6.37 | 0.031 | 6.18 | 0.68 | 0.14 | 0.26 | 0.05 |
| 13634 | 607. | 2.79 | 0.46 | 3.00 | 0.49 | 0.037 | 6.10 | 0.036 | 5.93 | 1.06 | 0.17 | 0.50 | 0.08 |
| 13635 | 526. | 2.32 | 0.44 | 2.15 | 0.41 | 0.028 | 5.32 | 0.028 | 5.32 | 0.70 | 0.13 | 0.41 | 0.08 |
| 13636 | 587. | 2.73 | 0.46 | 2.97 | 0.50 | 0.029 | 4.94 | 0.030 | 5.11 | 0.94 | 0.16 | 0.52 | 0.09 |
| 13637 | 645. | 2.29 | 0.36 | 2.36 | 0.36 | 0.036 | 5.58 | 0.037 | 5.74 | 1.05 | 0.16 | 0.47 | 0.07 |
| 13638 | 624. | 2.64 | 0.42 | 2.85 | 0.46 | 0.027 | 4.33 | 0.022 | 3.52 | 0.98 | 0.16 | 0.42 | 0.07 |
| 13639 | 579. | 2.72 | 0.47 | 2.44b | 0.42 | 0.036 | 6.22 | 0.029 | 5.01 | 0.90 | 0.16 | 0.25 | 0.04 |
| 13640 | 623. | 2.74 | 0.44 | 2.79 | 0.45 | 0.037 | 5.94 | 0.033 | 5.30 | 0.75 | 0.12 | 0.29 | 0.05 |
| 13641 | 548. | 2.66 | 0.48 | 2.57 | 0.47 | 0.032 | 5.84 | 0.032 | 5.84 | 1.02 | 0.19 | 0.35 | 0.06 |
| 13642 | 572. | 2.20 | 0.38 | 2.15 | 0.38 | 0.032 | 5.59 | 0.031 | 5.42 | 1.08 | 0.19 | 0.29 | 0.05 |
| 13643 | 603. | 2.84 | 0.47 | 2.68 | 0.44 | 0.034 | 5.64 | 0.033 | 5.47 | 0.72 | 0.12 | 0.45 | 0.07 |
| 13644 | 592. | 2.58 | 0.44 | 2.71 | 0.46 | 0.033 | 5.57 | 0.032 | 5.40 | 0.75 | 0.13 | 0.49 | 0.08 |
| 13645 | 567. | 2.80 | 0.49 | 2.77 | 0.49 | 0.038 | 6.70 | 0.036 | 6.35 | 1.02 | 0.18 | 0.31 | 0.05 |
| 13646 | 549. | 2.68 | 0.49 | 2.67 | 0.49 | 0.026 | 4.74 | 0.024 | 4.37 | 0.71 | 0.13 | 0.32 | 0.06 |
| 13647 | 577. | 2.67 | 0.46 | 2.70 | 0.47 | 0.031 | 5.37 | 0.030 | 5.20 | 0.95 | 0.16 | 0.52 | 0.09 |
| 13648 | 623. | 2.41 | 0.39 | 2.56 | 0.41 | 0.027 | 4.33 | 0.026 | 4.17 | 0.81 | 0.13 | 0.33 | 0.05 |
| 13649 | 528. | 2.55 | 0.48 | 2.72 | 0.52 | 0.032 | 6.06 | 0.042 | 7.95 | 0.80 | 0.15 | 0.44 | 0.08 |
| 13650 | 584. | 2.22 | 0.38 | 2.36 | 0.40 | 0.031 | 5.31 | 0.028 | 4.79 | 1.01 | 0.17 | 0.39 | 0.07 |
| 13651 | 597. | 2.56 | 0.43 | 2.80 | 0.47 | 0.029 | 4.86 | 0.025 | 4.19 | 0.93 | 0.16 | 0.43 | 0.07 |
| 13652 | 569. | 2.55 | 0.45 | 2.35 | 0.41 | 0.033 | 5.80 | 0.032 | 5.62 | 0.84 | 0.15 | 0.30 | 0.05 |
| 13653 | 520. | 2.06 | 0.40 | 2.30 | 0.44 | 0.024 | 4.62 | 0.022 | 4.23 | 0.74 | 0.14 | 0.36 | 0.07 |
| 13654 | 589. | 2.22 | 0.38 | 2.20 | 0.37 | 0.040 | 6.79 | 0.041 | 6.96 | 0.89 | 0.15 | 0.42 | 0.07 |
| 13655 | 647. | 2.87 | 0.44 | 3.18 | 0.49 | 0.027 | 4.17 | 0.024 | 3.71 | 0.88 | 0.14 | 0.36 | 0.06 |
| 13656 | 517. | 1.89 | 0.36 | 1.92 | 0.37 | 0.029 | 5.61 | 0.025 | 4.84 | 0.72 | 0.14 | 0.32 | 0.06 |
| 13657 | 475. | 2.20 | 0.46 | 2.17 | 0.46 | 0.029 | 6.10 | 0.032 | 6.74 | 0.86 | 0.18 | 0.31 | 0.06 |
| 13658 | 576. | 2.20 | 0.38 | 2.32 | 0.40 | 0.036 | 6.25 | 0.027 | 4.69 | 0.70 | 0.12 | 0.43 | 0.07 |
| 13659 | 531. | 2.11 | 0.40 | 2.10 | 0.40 | 0.030 | 5.65 | 0.029 | 5.46 | 0.87 | 0.16 | 0.31 | 0.06 |
| 13660 | 697. | 2.67 | 0.38 | 2.63 | 0.38 | 0.031 | 4.45 | 0.030 | 4.30 | 1.01 | 0.14 | 0.51 | 0.07 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13639 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

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TABLE B18 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13661 | 585. | 0.6912 | 0.12 | 0.3254 | 0.06 | 1.9614 | 0.34 | 1.7444 | 0.30 | 2.8329 | 0.48 | 1.4299 | 0.24 |
| 13662 | 539. | 0.6733 | 0.12 | 0.3247 | 0.06 | 1.7494 | 0.32 | 1.6186 | 0.30 | 1.7487 | 0.32 | 0.9591 | 0.18 |
| 13663 | 567. | 0.7359 | 0.13 | 0.3684 | 0.06 | 1.8987 | 0.33 | 1.7604 | 0.31 | 2.1959 | 0.39 | 1.1255 | 0.20 |
| 13664 | 511. | 0.6819 | 0.13 | 0.3250 | 0.06 | 1.8210 | 0.36 | 1.7070 | 0.33 | 2.3292 | 0.46 | 1.2339 | 0.24 |
| 13665 | 511. | 0.6495 | 0.13 | 0.3010 | 0.06 | 1.7079 | 0.33 | 1.5898 | 0.31 | 2.2164 | 0.43 | 1.0909 | 0.21 |
| 13666 | 481. | 0.6823 | 0.14 | 0.2923 | 0.06 | 1.8632 | 0.39 | 1.7270 | 0.36 | 2.1344 | 0.44 | 1.0447 | 0.22 |
| 13667 | 550. | 0.6787 | 0.12 | 0.3297 | 0.06 | 1.6308 | 0.30 | 1.5095 | 0.27 | 2.1297 | 0.39 | 1.2414 | 0.22 |
| 13668 | 453. | 0.5743 | 0.13 | 0.2440 | 0.05 | 1.6210 | 0.36 | 1.4979 | 0.33 | 1.8561 | 0.41 | 1.0709 | 0.24 |
| 13669 | 502. | 0.6734 | 0.13 | 0.3213 | 0.06 | 1.7453 | 0.35 | 1.5993 | 0.32 | 2.8444 | 0.57 | 1.4370 | 0.29 |
| 13670 | 555. | 0.7859 | 0.14 | 0.3657 | 0.06 | 1.8911 | 0.34 | 1.7575 | 0.32 | 2.8418 | 0.51 | 1.4905 | 0.27 |
| 13671 | 536. | 0.6692 | 0.12 | 0.2917 | 0.05 | 1.7697 | 0.33 | 1.6395 | 0.30 | 2.1255 | 0.40 | 1.3067 | 0.24 |
| 13672 | 504. | 0.6250 | 0.12 | 0.2759 | 0.05 | 1.8034 | 0.36 | 1.6454 | 0.33 | 2.5020 | 0.50 | 1.2914 | 0.26 |
| 13673 | 569. | 0.6469 | 0.11 | 0.2756 | 0.05 | 1.6549 | 0.29 | 1.5520 | 0.27 | 2.3554 | 0.41 | 1.2487 | 0.22 |
| 13674 | 498. | 0.6486 | 0.13 | 0.2841 | 0.06 | 1.6521 | 0.33 | 1.5435 | 0.31 | 2.1533 | 0.43 | 1.3208 | 0.26 |
| 13675 | 563. | 0.6728 | 0.12 | 0.3345 | 0.06 | 1.5921 | 0.28 | 1.4762 | 0.26 | 1.8019 | 0.32 | 1.1959 | 0.21 |
| 13676 | 475. | 0.7281 | 0.15 | 0.3253 | 0.07 | 1.9417 | 0.41 | 1.8298 | 0.38 | 2.3180 | 0.49 | 1.3884 | 0.29 |
| 13677 | 535. | 0.6628 | 0.12 | 0.3048 | 0.06 | 1.7046 | 0.32 | 1.5908 | 0.30 | 2.6193 | 0.49 | 1.2994 | 0.24 |
| 13678 | 628. | 0.6807 | 0.11 | 0.3119 | 0.05 | 1.7415 | 0.28 | 1.5851 | 0.25 | 2.1396 | 0.34 | 1.0874 | 0.17 |
| 13679 | 555. | 0.7220 | 0.13 | 0.3292 | 0.06 | 1.7870 | 0.32 | 1.6515 | 0.30 | 2.7896 | 0.50 | 1.5101 | 0.27 |
| 13680 | 536. | 0.7099 | 0.13 | 0.3186 | 0.06 | 1.9063 | 0.36 | 1.7722 | 0.33 | 2.0806 | 0.39 | 1.2158 | 0.23 |
| 13681 | 519. | 0.7653 | 0.15 | 0.3366 | 0.06 | 2.0456 | 0.39 | 1.9325 | 0.37 | 2.3093 | 0.44 | 1.1777 | 0.23 |
| 13682 | 596. | 0.7460 | 0.12 | 0.3481 | 0.06 | 2.0411 | 0.34 | 1.9264 | 0.32 | 2.5467 | 0.43 | 1.3425 | 0.22 |
| 13683 | 588. | 0.7294 | 0.12 | 0.2949 | 0.05 | 1.6796 | 0.28 | 1.5543 | 0.26 | 2.7770 | 0.47 | 1.3745 | 0.23 |
| 13684 | 536. | 0.7152 | 0.13 | 0.2938 | 0.05 | 1.7144 | 0.32 | 1.5779 | 0.29 | 2.2227 | 0.41 | 1.2772 | 0.24 |
| 13685 | 492. | 0.6832 | 0.14 | 0.3172 | 0.06 | 1.8082 | 0.37 | 1.6956 | 0.34 | 2.6755 | 0.54 | 1.5985 | 0.32 |
| 13686 | 508. | 0.6252 | 0.12 | 0.2874 | 0.06 | 1.7667 | 0.35 | 1.6740 | 0.33 | 2.0154 | 0.40 | 1.1092 | 0.22 |
| 13687 | 528. | 0.6735 | 0.13 | 0.3194 | 0.06 | 1.5957 | 0.30 | 1.4880 | 0.28 | 2.9111 | 0.55 | 1.6056 | 0.30 |
| 13688 | 582. | 0.7943 | 0.14 | 0.3601 | 0.06 | 2.0392 | 0.35 | 1.9123 | 0.33 | 2.2724 | 0.39 | 1.2595 | 0.22 |
| 13689 | 572. | 0.6982 | 0.12 | 0.3340 | 0.06 | 1.7096 | 0.30 | 1.5964 | 0.28 | 2.4406 | 0.43 | 1.2353 | 0.22 |
| 13690 | 676. | 0.6794 | 0.10 | 0.3048 | 0.04 | 1.7594 | 0.26 | 1.6408 | 0.24 | 2.4640 | 0.36 | 1.3996 | 0.21 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

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TABLE B18 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % TBW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % TBW | PROSTATE ABS. WT. | PROSTATE REL. % TBW | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13661 | 585. | 0.6942 | 0.12 | 1.9170 | 0.33 | 1.1744 | 0.20 | 0.014 | 2.39 | 2.24 | 0.38 | 28.39 | 4.85 |
| 13662 | 539. | 0.6884 | 0.13 | 1.7684 | 0.33 | 1.0222 | 0.19 | 0.018 | 3.34 | 2.11 | 0.39 | 28.59 | 5.30 |
| 13663 | 567. | 0.7462 | 0.13 | 1.9026 | 0.34 | 0.9513 | 0.17 | 0.008 | 1.41 | 2.32 | 0.41 | 26.16 | 4.61 |
| 13664 | 511. | 0.6483 | 0.13 | 1.7742 | 0.35 | 1.0531 | 0.21 | 0.013 | 2.54 | 2.39 | 0.47 | 28.39 | 5.56 |
| 13665 | 511. | 0.6558 | 0.13 | 1.7255 | 0.34 | 1.0904 | 0.21 | 0.013 | 2.54 | 2.40 | 0.47 | 28.78 | 5.63 |
| 13666 | 481. | 0.7041 | 0.15 | 1.9202 | 0.40 | 1.2313 | 0.26 | 0.010 | 2.08 | 2.00 | 0.42 | 24.12 | 5.01 |
| 13667 | 550. | 0.6941 | 0.13 | 1.6840 | 0.31 | 1.1857 | 0.22 | 0.012 | 2.18 | 2.23 | 0.40 | 31.05 | 5.64 |
| 13668 | 453. | 0.5695 | 0.12 | 1.6580 | 0.37 | 0.8687 | 0.19 | 0.009 | 1.99 | 2.13 | 0.47 | 25.21 | 5.56 |
| 13669 | 502. | 0.7484 | 0.15 | 1.8785 | 0.37 | 1.3318 | 0.26 | 0.013 | 2.59 | 2.34 | 0.47 | 29.67 | 5.91 |
| 13670 | 555. | 0.7844 | 0.14 | 1.8798 | 0.34 | 1.3966 | 0.25 | 0.014 | 2.52 | 2.12 | 0.38 | 27.92 | 5.03 |
| 13671 | 536. | 0.6884 | 0.13 | 1.7400 | 0.32 | 1.0287 | 0.19 | 0.011 | 2.05 | 2.36 | 0.44 | 24.03 | 4.48 |
| 13672 | 504. | 0.6282 | 0.12 | 1.7492 | 0.35 | 1.1247 | 0.22 | 0.011 | 2.18 | 2.22 | 0.44 | 26.01 | 5.16 |
| 13673 | 569. | 0.6464 | 0.11 | 1.6550 | 0.29 | 0.9881 | 0.17 | 0.003 | 0.53 | 2.07 | 0.36 | 28.10 | 4.94 |
| 13674 | 498. | 0.6375 | 0.13 | 1.7158 | 0.34 | 1.1467 | 0.23 | 0.010 | 2.01 | 2.36 | 0.47 | 24.17 | 4.85 |
| 13675 | 563. | 0.6921 | 0.12 | 1.5912 | 0.28 | 0.9485 | 0.17 | 0.014 | 2.49 | 2.22 | 0.39 | 28.39 | 5.04 |
| 13676 | 475. | 0.6965 | 0.15 | 1.9457 | 0.41 | 0.9484 | 0.20 | 0.010 | 2.10 | 2.14 | 0.45 | 22.77 | 4.79 |
| 13677 | 535. | 0.6481 | 0.12 | 1.7060 | 0.32 | 1.4671 | 0.27 | 0.013 | 2.43 | 2.31 | 0.43 | 27.65 | 5.17 |
| 13678 | 628. | 0.6848 | 0.11 | 1.7331 | 0.28 | 1.2232 | 0.19 | 0.011 | 1.75 | 2.35 | 0.37 | 26.48 | 4.22 |
| 13679 | 555. | 0.7450 | 0.13 | 1.7974 | 0.32 | 1.4973 | 0.27 | 0.011 | 1.98 | 2.41 | 0.43 | 27.01 | 4.87 |
| 13680 | 536. | 0.6700 | 0.12 | 1.9337 | 0.36 | 0.8157 | 0.15 | 0.016 | 2.98 | 2.29 | 0.43 | 29.45 | 5.49 |
| 13681 | 519. | 0.7726 | 0.15 | 2.0453 | 0.39 | 0.9378 | 0.18 | 0.010 | 1.93 | 2.42 | 0.47 | 29.31 | 5.65 |
| 13682 | 596. | 0.7609 | 0.13 | 2.0193 | 0.34 | 1.1773 | 0.20 | 0.012 | 2.01 | 2.45 | 0.41 | 29.50 | 4.95 |
| 13683 | 588. | 0.7217 | 0.12 | 1.6827 | 0.29 | 1.2601 | 0.21 | 0.013 | 2.21 | 2.19 | 0.37 | 28.45 | 4.84 |
| 13684 | 536. | 0.7096 | 0.13 | 1.7016 | 0.32 | 1.1324 | 0.21 | 0.009 | 1.68 | 2.20 | 0.41 | 22.94 | 4.28 |
| 13685 | 492. | 0.6926 | 0.14 | 1.8110 | 0.37 | 1.1725 | 0.24 | 0.014 | 2.84 | 2.12 | 0.43 | 26.28 | 5.34 |
| 13686 | 508. | 0.6045 | 0.12 | 1.7715 | 0.35 | 1.0562 | 0.21 | 0.017 | 3.35 | 2.30 | 0.45 | 28.94 | 5.70 |
| 13687 | 528. | 0.7076 | 0.13 | 1.5732 | 0.30 | 1.0888 | 0.21 | 0.013 | 2.46 | 2.34 | 0.44 | 29.66 | 5.62 |
| 13688 | 582. | 0.7951 | 0.14 | 2.0475 | 0.35 | 0.9953 | 0.17 | 0.014 | 2.40 | 2.08 | 0.36 | 25.96 | 4.46 |
| 13689 | 572. | 0.6814 | 0.12 | 1.6739 | 0.29 | 1.2406 | 0.22 | 0.012 | 2.10 | 2.27 | 0.40 | 34.16 | 5.97 |
| 13690 | 676. | 0.6736 | 0.10 | 1.7440 | 0.26 | 0.9884 | 0.15 | 0.016 | 2.37 | 2.28 | 0.34 | 33.85b | 5.01 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B18 (PAGE 9): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13661 | 585. | 2.49 | 0.42 | 2.45 | 0.42 | 0.038 | 6.50 | 0.044 | 7.52 | 1.01 | 0.17 | 0.34 | 0.06 |
| 13662 | 539. | 2.50 | 0.46 | 2.45 | 0.45 | 0.040 | 7.42 | 0.046 | 8.53 | 0.89 | 0.16 | 0.52 | 0.10 |
| 13663 | 567. | 2.20 | 0.39 | 2.34 | 0.41 | 0.031 | 5.47 | 0.034 | 6.00 | 0.82 | 0.14 | 0.45 | 0.08 |
| 13664 | 511. | 2.26 | 0.44 | 2.24 | 0.44 | 0.033 | 6.46 | 0.032 | 6.26 | 0.86 | 0.17 | 0.49 | 0.10 |
| 13665 | 511. | 2.36 | 0.46 | 2.50 | 0.49 | 0.042 | 8.22 | 0.044 | 8.61 | 0.74 | 0.14 | 0.39 | 0.08 |
| 13666 | 481. | 2.29 | 0.48 | 2.41 | 0.50 | 0.027 | 5.61 | 0.026 | 5.40 | 1.11 | 0.23 | 0.44 | 0.09 |
| 13667 | 550. | 2.43 | 0.44 | 2.48 | 0.45 | 0.026 | 4.73 | 0.021 | 3.82 | 0.90 | 0.16 | 0.50 | 0.09 |
| 13668 | 453. | 2.39 | 0.53 | 2.49 | 0.55 | 0.026 | 5.74 | 0.021 | 4.64 | 0.75 | 0.16 | 0.25 | 0.06 |
| 13669 | 502. | 2.60 | 0.52 | 2.50 | 0.50 | 0.029 | 5.78 | 0.021 | 4.18 | 0.90 | 0.18 | 0.42 | 0.08 |
| 13670 | 555. | 2.29 | 0.41 | 2.31b | 0.42 | 0.023 | 4.14 | 0.021 | 3.78 | 0.79 | 0.14 | 0.38 | 0.07 |
| 13671 | 536. | 2.47 | 0.46 | 2.20 | 0.41 | 0.034 | 6.34 | 0.030 | 5.60 | 0.84 | 0.16 | 0.24 | 0.04 |
| 13672 | 504. | 2.42 | 0.48 | 2.23c | 0.44 | 0.029 | 5.75 | 0.029 | 5.75 | 0.73 | 0.14 | 0.36 | 0.07 |
| 13673 | 569. | 2.54 | 0.45 | 2.60 | 0.46 | 0.021 | 3.69 | 0.022 | 3.87 | 0.91 | 0.16 | 0.45 | 0.08 |
| 13674 | 498. | 2.48 | 0.50 | 2.27 | 0.46 | 0.025 | 5.02 | 0.034 | 6.83 | 0.70 | 0.14 | 0.33 | 0.07 |
| 13675 | 563. | 2.49 | 0.44 | 2.56 | 0.45 | 0.025 | 4.44 | 0.028 | 4.97 | 0.88 | 0.16 | 0.53 | 0.09 |
| 13676 | 475. | 2.33 | 0.49 | 2.37 | 0.50 | 0.034 | 7.16 | 0.032 | 6.74 | 0.76 | 0.16 | 0.25 | 0.05 |
| 13677 | 535. | 2.78 | 0.52 | 2.55 | 0.48 | 0.035 | 6.54 | 0.027 | 5.05 | 0.65 | 0.12 | 0.33 | 0.06 |
| 13678 | 628. | 2.44 | 0.39 | 2.62 | 0.42 | 0.032 | 5.10 | 0.031 | 4.94 | 0.79 | 0.12 | 0.35 | 0.06 |
| 13679 | 555. | 2.41 | 0.43 | 2.67 | 0.48 | 0.042 | 7.57 | 0.034 | 6.13 | 0.77 | 0.14 | 0.50 | 0.09 |
| 13680 | 536. | 2.57 | 0.48 | 2.56 | 0.48 | 0.026 | 4.85 | 0.025 | 4.66 | 1.05 | 0.20 | 0.21 | 0.04 |
| 13681 | 519. | 2.69 | 0.52 | 2.66 | 0.51 | 0.027 | 5.20 | 0.029 | 5.59 | 0.97 | 0.19 | 0.30 | 0.06 |
| 13682 | 596. | 2.52 | 0.42 | 2.62 | 0.44 | 0.023 | 3.86 | 0.024 | 4.03 | 0.93 | 0.16 | 0.46 | 0.08 |
| 13683 | 588. | 2.44 | 0.41 | 2.33 | 0.40 | 0.025 | 4.25 | 0.045 | 7.65 | 0.82 | 0.14 | 0.53 | 0.09 |
| 13684 | 536. | 2.33 | 0.43 | 2.34 | 0.44 | 0.029 | 5.41 | 0.030 | 5.60 | 0.85 | 0.16 | 0.40 | 0.07 |
| 13685 | 492. | 2.65 | 0.54 | 2.58 | 0.52 | 0.021 | 4.27 | 0.019 | 3.86 | 0.82 | 0.17 | 0.24 | 0.05 |
| 13686 | 508. | 2.76 | 0.54 | 2.75 | 0.54 | 0.030 | 5.90 | 0.026 | 5.12 | 0.77 | 0.15 | 0.29 | 0.06 |
| 13687 | 528. | 2.45 | 0.46 | 2.43 | 0.46 | 0.029 | 5.49 | 0.025 | 4.73 | 0.91 | 0.17 | 0.27 | 0.05 |
| 13688 | 582. | 2.75 | 0.47 | 2.55 | 0.44 | 0.031 | 5.33 | 0.031 | 5.33 | 1.02 | 0.18 | 0.49 | 0.08 |
| 13689 | 572. | 2.88 | 0.50 | 2.82 | 0.49 | 0.029 | 5.07 | 0.022 | 3.85 | 1.07 | 0.19 | 0.39 | 0.07 |
| 13690 | 676. | 3.19 | 0.47 | 3.03 | 0.45 | 0.044 | 6.51 | 0.043 | 6.36 | 0.96 | 0.14 | 0.43 | 0.06 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13670 had moderate dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

c. Rat 13672 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

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TABLE B18 (PAGE 10): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13691 | 528. | 0.6510 | 0.12 | 0.2903 | 0.05 | 1.7748 | 0.34 | 1.6126 | 0.30 | 1.8099 | 0.34 | 1.1447 | 0.22 |
| 13692 | 450. | 0.7089 | 0.16 | 0.3304 | 0.07 | 1.8786 | 0.42 | 1.7780 | 0.40 | 2.3515 | 0.52 | 1.0306 | 0.23 |
| 13693 | 570. | 0.6386 | 0.11 | 0.2740 | 0.05 | 1.8515 | 0.32 | 1.7107 | 0.30 | 1.7267a | 0.30a | 1.0523 | 0.18 |
| 13694 | 571. | 0.7488 | 0.13 | 0.3793 | 0.07 | 1.6795 | 0.29 | 1.5725 | 0.28 | 2.4684 | 0.43 | 1.5301 | 0.27 |
| 13695 | 506. | 0.6307 | 0.12 | 0.2689 | 0.05 | 1.6411 | 0.32 | 1.5376 | 0.30 | 1.9912 | 0.39 | 1.2054 | 0.24 |
| 13696 | 553. | 0.6652 | 0.12 | 0.3142 | 0.06 | 1.9205 | 0.35 | 1.7789 | 0.32 | 2.0129 | 0.36 | 1.1453 | 0.21 |
| 13697 | 480. | 0.7278 | 0.15 | 0.3255 | 0.07 | 1.8740 | 0.39 | 1.7521 | 0.36 | 2.2800 | 0.48 | 1.2851 | 0.27 |
| 13698 | 533. | 0.7380 | 0.14 | 0.3381 | 0.06 | 2.0329 | 0.38 | 1.9220 | 0.36 | 2.6892 | 0.50 | 1.3437 | 0.25 |
| 13699 | 466. | 0.6450 | 0.14 | 0.2780 | 0.06 | 1.7274 | 0.37 | 1.5993 | 0.34 | 2.2776 | 0.49 | 1.2605 | 0.27 |
| 13700 | 535. | 0.7382 | 0.14 | 0.3455 | 0.06 | 1.8932 | 0.35 | 1.7207 | 0.32 | 2.4079 | 0.45 | 1.2589 | 0.24 |
| 13701 | 490. | 0.6860 | 0.14 | 0.2982 | 0.06 | 1.7259 | 0.35 | 1.5848 | 0.32 | 1.9875 | 0.40 | 1.0487 | 0.21 |
| 13702 | 498. | 0.7634 | 0.15 | 0.3364 | 0.07 | 1.8769 | 0.38 | 1.7673 | 0.35 | 2.3722 | 0.48 | 1.3402 | 0.27 |
| 13703 | 501. | 0.7196 | 0.14 | 0.3232 | 0.06 | 1.7387 | 0.35 | 1.6197 | 0.32 | 2.4935 | 0.50 | 1.5376 | 0.31 |
| 13704 | 624. | 0.7761 | 0.12 | 0.3537 | 0.06 | 1.8951 | 0.30 | 1.7609 | 0.28 | 2.3446 | 0.38 | 1.3177 | 0.21 |
| 13705 | 551. | 0.6684 | 0.12 | 0.2734 | 0.05 | 1.8277 | 0.33 | 1.6738 | 0.30 | 1.4559b | 0.26b | 1.0436 | 0.19 |
| 13706 | 526. | 0.7169 | 0.14 | 0.3511 | 0.07 | 1.8320 | 0.35 | 1.7076 | 0.32 | 2.3625 | 0.45 | 1.3581 | 0.26 |
| 13707 | 557. | 0.7793 | 0.14 | 0.3728 | 0.07 | 1.6347 | 0.29 | 1.5384 | 0.28 | 2.7172 | 0.49 | 1.4232 | 0.26 |
| 13708 | 563. | 0.7390 | 0.13 | 0.3343 | 0.06 | 1.8899 | 0.34 | 1.7878 | 0.32 | 2.6176 | 0.46 | 1.4343 | 0.25 |
| 13709 | 451. | 0.6284 | 0.14 | 0.2894 | 0.06 | 1.6529 | 0.37 | 1.5406 | 0.34 | 2.5577 | 0.57 | 1.4163 | 0.31 |
| 13710 | 398. | 0.6303 | 0.16 | 0.2903 | 0.07 | 1.8617 | 0.47 | 1.7607 | 0.44 | 2.1083 | 0.53 | 1.0055 | 0.25 |
| 13711 | 401. | 0.6687 | 0.17 | 0.3095 | 0.08 | 1.6931 | 0.42 | 1.5997 | 0.40 | 2.1691 | 0.54 | 1.1139 | 0.28 |
| 13712 | 455. | 0.6542 | 0.14 | 0.2903 | 0.06 | 1.8646 | 0.41 | 1.7482 | 0.38 | 2.0146 | 0.44 | 1.0707 | 0.24 |
| 13713 | 493. | 0.6660 | 0.14 | 0.3171 | 0.06 | 1.7775 | 0.36 | 1.6482 | 0.33 | 2.1117 | 0.43 | 1.1951 | 0.24 |
| 13714 | 443. | 0.7452 | 0.17 | 0.3291 | 0.07 | 1.8785 | 0.42 | 1.7562 | 0.40 | 2.7024 | 0.61 | 1.3951 | 0.31 |
| 13715 | 551. | 0.6832 | 0.12 | 0.2975 | 0.05 | 1.7745 | 0.32 | 1.6450 | 0.30 | 2.2975 | 0.42 | 1.1581 | 0.21 |
| 13716 | 528. | 0.7514 | 0.14 | 0.3387 | 0.06 | 2.0020 | 0.38 | 1.8087 | 0.34 | 2.3873 | 0.45 | 1.2017 | 0.23 |
| 13717 | 489. | 0.7523 | 0.15 | 0.3543 | 0.07 | 1.8418 | 0.38 | 1.7492 | 0.36 | 2.4171 | 0.49 | 1.3391 | 0.27 |
| 13718 | 543. | 0.7349 | 0.14 | 0.3363 | 0.06 | 1.8380 | 0.34 | 1.7356 | 0.32 | 2.3115 | 0.42 | 1.2358 | 0.23 |
| 13719 | 544. | 0.7209 | 0.13 | 0.3571 | 0.06 | 1.8179 | 0.33 | 1.6798 | 0.31 | 2.7956 | 0.51 | 1.5191 | 0.28 |
| 13720 | 591. | 0.7415 | 0.12 | 0.3476 | 0.06 | 1.8847 | 0.32 | 1.7681 | 0.30 | 2.9170 | 0.49 | 1.5807 | 0.27 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Damaged during processing (some fluid loss prior to weighing); values excluded from group averages and statistical analyses.
b. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

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TABLE B18 (PAGE 11): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % TBW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % TBW | PROSTATE ABS. WT. | PROSTATE REL. % TBW | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13691 | 528. | 0.6462 | 0.12 | 1.6959 | 0.32 | 1.1002 | 0.21 | 0.009 | 1.70 | 2.31 | 0.44 | 30.43 | 5.76 |
| 13692 | 450. | 0.6514 | 0.14 | 1.8472 | 0.41 | 0.6953 | 0.15 | 0.013 | 2.89 | 2.35 | 0.52 | 27.20 | 6.04 |
| 13693 | 570. | 0.4308 | 0.08 | 1.5803 | 0.28 | 0.9426 | 0.16 | 0.014 | 2.46 | 2.09 | 0.37 | 30.49 | 5.35 |
| 13694 | 571. | 0.7073 | 0.12 | 1.5982 | 0.28 | 0.8671 | 0.15 | 0.012 | 2.10 | 2.11 | 0.37 | 28.77 | 5.04 |
| 13695 | 506. | 0.6242 | 0.12 | 1.5583 | 0.31 | 1.1675 | 0.23 | 0.016 | 3.16 | 2.05 | 0.40 | 30.35 | 6.00 |
| 13696 | 553. | 0.6590 | 0.12 | 1.9059 | 0.34 | 1.1603 | 0.21 | 0.019 | 3.44 | 2.25 | 0.41 | 29.83 | 5.39 |
| 13697 | 480. | 0.7200 | 0.15 | 1.8881 | 0.39 | 1.1685 | 0.24 | 0.013 | 2.71 | 2.26 | 0.47 | 28.85 | 6.01 |
| 13698 | 533. | 0.7592 | 0.14 | 2.0050 | 0.38 | 1.2923 | 0.24 | 0.008 | 1.50 | 2.35 | 0.44 | 27.33 | 5.13 |
| 13699 | 466. | 0.6287 | 0.13 | 1.6871 | 0.36 | 1.2763 | 0.27 | 0.015 | 3.22 | 2.28 | 0.49 | 19.75 | 4.24 |
| 13700 | 535. | 0.7246 | 0.14 | 1.9501 | 0.36 | 0.8127 | 0.15 | 0.014 | 2.62 | 2.46 | 0.46 | 31.22 | 5.84 |
| 13701 | 490. | 0.6728 | 0.14 | 1.7611 | 0.36 | 0.9267 | 0.19 | 0.017 | 3.47 | 2.26 | 0.46 | 22.78 | 4.65 |
| 13702 | 498. | 0.7257 | 0.14 | 1.8833 | 0.38 | 0.9056 | 0.18 | 0.012 | 2.41 | 2.05 | 0.41 | 23.84 | 4.79 |
| 13703 | 501. | 0.7072 | 0.14 | 1.7711 | 0.35 | 1.2401 | 0.25 | 0.019 | 3.79 | 2.37 | 0.47 | 31.22 | 6.23 |
| 13704 | 624. | 0.7933 | 0.13 | 1.9822 | 0.32 | 1.4428 | 0.23 | 0.020 | 3.20 | 2.38 | 0.38 | 36.32 | 5.82 |
| 13705 | 551. | 0.6890 | 0.12 | 1.8191 | 0.33 | 1.0972 | 0.20 | 0.010 | 1.81 | 2.32 | 0.42 | 35.62 | 6.46 |
| 13706 | 526. | 0.3207b | 0.06 | 0.8699b | 0.16 | 1.1747 | 0.22 | 0.011 | 2.09 | 2.45 | 0.46 | 29.09 | 5.53 |
| 13707 | 557. | 0.7579 | 0.14 | 1.6624 | 0.30 | 1.2753 | 0.23 | 0.011 | 1.97 | 2.07 | 0.37 | 29.42 | 5.28 |
| 13708 | 563. | 0.7502 | 0.13 | 1.9331 | 0.34 | 0.8310 | 0.15 | 0.015 | 2.66 | 2.13 | 0.38 | 32.27 | 5.73 |
| 13709 | 451. | 0.6525 | 0.14 | 1.6711 | 0.37 | 1.0523 | 0.23 | 0.017 | 3.77 | 2.33 | 0.52 | 25.48 | 5.65 |
| 13710 | 398. | 0.6630 | 0.17 | 1.8448 | 0.46 | 0.7736 | 0.19 | 0.019 | 4.77 | 2.21 | 0.56 | 24.32 | 6.11 |
| 13711 | 401. | 0.6400 | 0.16 | 1.6398 | 0.41 | 0.9264 | 0.23 | 0.012 | 2.99 | 2.16 | 0.54 | 22.43 | 5.59 |
| 13712 | 455. | 0.6336 | 0.14 | 1.8443 | 0.40 | 0.8620 | 0.19 | 0.011 | 2.42 | 2.34 | 0.51 | 24.75 | 5.44 |
| 13713 | 493. | 0.6594 | 0.13 | 1.7083 | 0.35 | 1.1091 | 0.22 | 0.014 | 2.84 | 2.10 | 0.42 | 31.60 | 6.41 |
| 13714 | 443. | 0.7495 | 0.17 | 1.8709 | 0.42 | 1.0910 | 0.25 | 0.011 | 2.48 | 2.17 | 0.49 | 26.03 | 5.88 |
| 13715 | 551. | 0.6537 | 0.12 | 1.7351 | 0.31 | 1.2177 | 0.22 | 0.015 | 2.72 | 2.22 | 0.40 | 34.10 | 6.19 |
| 13716 | 528. | 0.7396 | 0.14 | 2.0528 | 0.39 | 1.0765 | 0.20 | 0.013 | 2.46 | 2.25 | 0.43 | 28.78 | 5.45 |
| 13717 | 489. | 0.7265 | 0.15 | 1.7853 | 0.36 | 1.0506 | 0.21 | 0.018 | 3.68 | 2.43 | 0.50 | 27.61 | 5.65 |
| 13718 | 543. | 0.7409 | 0.14 | 1.8402 | 0.34 | 0.6135 | 0.11 | 0.018 | 3.31 | 2.18 | 0.40 | 28.62 | 5.27 |
| 13719 | 544. | 0.7150 | 0.13 | 1.7551 | 0.32 | 0.7355 | 0.14 | 0.013 | 2.39 | 2.21 | 0.41 | 32.24 | 5.93 |
| 13720 | 591. | 0.7717 | 0.13 | 1.8332 | 0.31 | 1.2191 | 0.21 | 0.009 | 1.52 | 2.15 | 0.36 | 31.49 | 5.33 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13706 had a small and flaccid right epididymis and right testis. See the individual necropsy observations table (Table B16).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B18 (PAGE 12): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13691 | 528. | 2.23 | 0.42 | 2.27 | 0.43 | 0.018 | 3.41 | 0.043 | 8.14 | 1.01 | 0.19 | 0.61 | 0.12 |
| 13692 | 450. | 2.42 | 0.54 | 2.31 | 0.51 | 0.026 | 5.78 | 0.029 | 6.44 | 0.83 | 0.18 | 0.55 | 0.12 |
| 13693 | 570. | 2.34 | 0.41 | 2.37 | 0.42 | 0.036 | 6.32 | 0.038 | 6.67 | 0.97 | 0.17 | 0.77 | 0.14 |
| 13694 | 571. | 2.75 | 0.48 | 3.01 | 0.53 | 0.025 | 4.38 | 0.037 | 6.48 | 0.81 | 0.14 | 0.50 | 0.09 |
| 13695 | 506. | 2.29 | 0.45 | 2.34 | 0.46 | 0.028 | 5.53 | 0.030 | 5.93 | 0.79 | 0.16 | 0.40 | 0.08 |
| 13696 | 553. | 2.99 | 0.54 | 2.82 | 0.51 | 0.035 | 6.33 | 0.033 | 5.97 | 1.04 | 0.19 | 0.54 | 0.10 |
| 13697 | 480. | 2.16 | 0.45 | 2.16 | 0.45 | 0.032 | 6.67 | 0.033 | 6.88 | 0.90 | 0.19 | 0.50 | 0.10 |
| 13698 | 533. | 2.61 | 0.49 | 2.63 | 0.49 | 0.034 | 6.38 | 0.040 | 7.50 | 0.82 | 0.15 | 0.52 | 0.10 |
| 13699 | 466. | 2.11 | 0.45 | 2.09 | 0.45 | 0.019 | 4.08 | 0.016 | 3.43 | 0.81 | 0.17 | 0.42 | 0.09 |
| 13700 | 535. | 2.37 | 0.44 | 2.40 | 0.45 | 0.030 | 5.61 | 0.030 | 5.61 | 0.99 | 0.18 | 0.44 | 0.08 |
| 13701 | 490. | 2.03 | 0.41 | 2.01 | 0.41 | 0.022 | 4.49 | 0.021 | 4.28 | 0.71 | 0.14 | 0.26 | 0.05 |
| 13702 | 498. | 2.05 | 0.41 | 2.10 | 0.42 | 0.028 | 5.62 | 0.024 | 4.82 | 0.84 | 0.17 | 0.27 | 0.05 |
| 13703 | 501. | 2.52 | 0.50 | 2.38 | 0.48 | 0.043 | 8.58 | 0.034 | 6.79 | 0.95 | 0.19 | 0.31 | 0.06 |
| 13704 | 624. | 2.61 | 0.42 | 2.64 | 0.42 | 0.036 | 5.77 | 0.030 | 4.81 | 1.15 | 0.18 | 0.56 | 0.09 |
| 13705 | 551. | 2.45 | 0.44 | 2.51 | 0.46 | 0.033 | 5.99 | 0.026 | 4.72 | 0.90 | 0.16 | 0.54 | 0.10 |
| 13706 | 526. | 2.17 | 0.41 | 2.46 | 0.47 | 0.031 | 5.89 | 0.026 | 4.94 | 0.79 | 0.15 | 0.38 | 0.07 |
| 13707 | 557. | 2.50 | 0.45 | 2.47 | 0.44 | 0.032 | 5.74 | 0.030 | 5.38 | 0.79 | 0.14 | 0.40 | 0.07 |
| 13708 | 563. | 2.42 | 0.43 | 2.57 | 0.46 | 0.038 | 6.75 | 0.038 | 6.75 | 0.76 | 0.13 | 0.34 | 0.06 |
| 13709 | 451. | 2.19 | 0.48 | 2.20 | 0.49 | 0.031 | 6.87 | 0.019 | 4.21 | 0.74 | 0.16 | 0.28 | 0.06 |
| 13710 | 398. | 2.08 | 0.52 | 2.17 | 0.54 | 0.029 | 7.29 | 0.025 | 6.28 | 0.66 | 0.16 | 0.40 | 0.10 |
| 13711 | 401. | 1.87 | 0.47 | 1.92 | 0.48 | 0.028 | 6.98 | 0.039 | 9.72 | 0.83 | 0.21 | 0.50 | 0.12 |
| 13712 | 455. | 2.03 | 0.45 | 2.04 | 0.45 | 0.030 | 6.59 | 0.033 | 7.25 | 1.11 | 0.24 | 0.36 | 0.08 |
| 13713 | 493. | 2.18 | 0.44 | 2.15 | 0.44 | 0.025 | 5.07 | 0.027 | 5.48 | 0.72 | 0.15 | 0.26 | 0.05 |
| 13714 | 443. | 2.38 | 0.54 | 2.13 | 0.48 | 0.026 | 5.87 | 0.051 | 11.51 | 0.52 | 0.12 | 0.18 | 0.04 |
| 13715 | 551. | 2.39 | 0.43 | 2.45 | 0.44 | 0.035 | 6.35 | 0.033 | 5.99 | 0.98 | 0.18 | 0.29 | 0.05 |
| 13716 | 528. | 2.49 | 0.47 | 2.60 | 0.49 | 0.028 | 5.30 | 0.026 | 4.92 | 0.79 | 0.15 | 0.24 | 0.04 |
| 13717 | 489. | 2.37 | 0.48 | 2.38b | 0.49 | 0.030 | 6.13 | 0.032 | 6.54 | 0.87 | 0.18 | 0.39 | 0.08 |
| 13718 | 543. | 2.42 | 0.44 | 2.33 | 0.43 | 0.037 | 6.81 | 0.033 | 6.08 | 0.93 | 0.17 | 0.25 | 0.05 |
| 13719 | 544. | 2.31 | 0.42 | 2.42 | 0.44 | 0.033 | 6.07 | 0.037 | 6.80 | 1.10 | 0.20 | 0.47 | 0.09 |
| 13720 | 591. | 2.48 | 0.42 | 2.56 | 0.43 | 0.022 | 3.72 | 0.026 | 4.40 | 1.03 | 0.17 | 0.23 | 0.04 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13717 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

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TABLE B18 (PAGE 13): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13721 | 511. | 0.6074 | 0.12 | 0.2790 | 0.05 | 1.6557 | 0.32 | 1.5270 | 0.30 | 2.1394 | 0.42 | 1.1271 | 0.22 |
| 13722 | 452. | 0.6274 | 0.14 | 0.2822 | 0.06 | 2.0342 | 0.45 | 1.9065 | 0.42 | 1.9349 | 0.43 | 0.9897 | 0.22 |
| 13723 | 321. | 0.6173 | 0.19 | 0.2866 | 0.09 | 1.7454 | 0.54 | 1.6102 | 0.50 | 1.8187 | 0.57 | 1.0162 | 0.32 |
| 13724 | 378. | 0.6288 | 0.17 | 0.2856 | 0.08 | 1.7350 | 0.46 | 1.6175 | 0.43 | 1.8648 | 0.49 | 1.0530 | 0.28 |
| 13725 | 361. | 0.5636 | 0.16 | 0.2434 | 0.07 | 1.5799 | 0.44 | 1.4784 | 0.41 | 2.0211 | 0.56 | 1.1224 | 0.31 |
| 13726 | 465. | 0.5924 | 0.13 | 0.2529 | 0.05 | 1.6603 | 0.36 | 1.4205 | 0.30 | 2.3913 | 0.51 | 1.3574 | 0.29 |
| 13727 | 443. | 0.6562 | 0.15 | 0.3344 | 0.08 | 1.6767 | 0.38 | 1.5666 | 0.35 | 2.3512 | 0.53 | 1.2199 | 0.28 |
| 13728 | 418. | 0.6189 | 0.15 | 0.2708 | 0.06 | 1.8145 | 0.43 | 1.6036 | 0.38 | 1.6491 | 0.39 | 0.8819 | 0.21 |
| 13729 | 439. | 0.6563 | 0.15 | 0.2832 | 0.06 | 1.8213 | 0.41 | 1.7046 | 0.39 | 2.7535 | 0.63 | 1.6355 | 0.37 |
| 13730 | 522. | 0.7344 | 0.14 | 0.3692 | 0.07 | 1.9206 | 0.37 | 1.7641 | 0.34 | 2.7822 | 0.53 | 1.3529 | 0.26 |
| 13731 | 468. | 0.6264 | 0.13 | 0.2816 | 0.06 | 1.8082 | 0.39 | 1.6879 | 0.36 | 2.2953 | 0.49 | 1.3058 | 0.28 |
| 13732a | ---- | 0.32 | ---- | b | ---- | 1.57 | ---- | b | ---- | 0.41 | ---- | b | ---- |
| 13733 | 554. | 0.4488c | 0.08 | 0.2281 | 0.04 | 1.5848 | 0.29 | 0.7696c | 0.14 | 1.9756 | 0.36 | 1.0945 | 0.20 |
| 13734 | 456. | 0.6218 | 0.14 | 0.3056 | 0.07 | 1.7707 | 0.39 | 1.6457 | 0.36 | 1.9533 | 0.43 | 1.0168 | 0.22 |
| 13735 | 446. | 0.6602 | 0.15 | 0.2885 | 0.06 | 1.6260 | 0.36 | 1.4871 | 0.33 | 2.0416 | 0.46 | 1.0459 | 0.23 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Rat 13732 was moribund sacrificed on day 45 of study; values excluded from group averages and statistical analyses.

b. Value was not recorded.

c. Rat 13733 had a small and flaccid left epididymis and left testis minus tunica albuginea. See the individual necropsy observations table (Table B16).

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TABLE B18 (PAGE 14): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT | | CAUDA EPIDIDYMIS LEFT | | TESTIS LEFT | | L. TESTIS MINUS TUNICA ALBUGINEA | | SEMINAL VESICLES WITH FLUID | | SEMINAL VESICLES WITHOUT FLUID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13736 | 398. | 0.6673 | 0.17 | 0.3010 | 0.08 | 1.8057 | 0.45 | 1.6957 | 0.43 | 2.2496 | 0.56 | 1.2149 | 0.30 |
| 13737 | 385. | 0.6265 | 0.16 | 0.2859 | 0.07 | 1.8269 | 0.47 | 1.7194 | 0.45 | 1.7412 | 0.45 | 1.1388 | 0.30 |
| 13738 | 475. | 0.7368 | 0.16 | 0.3496 | 0.07 | 1.8806 | 0.40 | 1.7560 | 0.37 | 2.2771 | 0.48 | 1.1760 | 0.25 |
| 13739 | 374. | 0.6346 | 0.17 | 0.2936 | 0.08 | 1.7360 | 0.46 | 1.6485 | 0.44 | 2.1199 | 0.57 | 1.1596 | 0.31 |
| 13740 | 497. | 0.6890 | 0.14 | 0.3195 | 0.06 | 1.8928 | 0.38 | 1.7714 | 0.36 | 1.9407 | 0.39 | 1.0294 | 0.21 |
| 13741 | 358. | 0.4128a | 0.12 | 0.1813a | 0.05 | 0.9095a | 0.25 | 0.7763a | 0.22 | 1.5799 | 0.44 | 1.0094 | 0.28 |
| 13742 | 345. | 0.6057 | 0.18 | 0.2949 | 0.08 | 1.5689 | 0.45 | 1.4689 | 0.42 | 2.0911 | 0.61 | 1.1513 | 0.33 |
| 13743 | 401. | 0.6398 | 0.16 | 0.3157 | 0.08 | 1.7613 | 0.44 | 1.6391 | 0.41 | 2.2751 | 0.57 | 1.1189 | 0.28 |
| 13744 | 394. | 0.6318 | 0.16 | 0.2745 | 0.07 | 1.7873 | 0.45 | 1.6903 | 0.43 | 2.1831 | 0.55 | 1.2490 | 0.32 |
| 13745 | 413. | 0.5971 | 0.14 | 0.2785 | 0.07 | 1.7386 | 0.42 | 1.6364 | 0.40 | 1.6923 | 0.41 | 0.9536 | 0.23 |
| 13746 | 438. | 0.6928 | 0.16 | 0.2873 | 0.06 | 1.7150 | 0.39 | 1.6329 | 0.37 | 2.0396 | 0.46 | 1.1029 | 0.25 |
| 13747 | 321. | 0.6158 | 0.19 | 0.2828 | 0.09 | 1.9071 | 0.59 | 1.7986 | 0.56 | 1.8077 | 0.56 | 0.8948 | 0.28 |
| 13748 | 570. | 0.7390 | 0.13 | 0.3243 | 0.06 | 2.0476 | 0.36 | 1.9007 | 0.33 | 2.1969 | 0.38 | 1.2020 | 0.21 |
| 13749 | 469. | 0.7383 | 0.16 | 0.3499 | 0.07 | 1.9514 | 0.42 | 1.8267 | 0.39 | 2.0347 | 0.43 | 1.1848 | 0.25 |
| 13750 | 449. | 0.6466 | 0.14 | 0.2750 | 0.06 | 2.8842b | 0.64 | 2.6964b | 0.60 | 1.6893 | 0.38 | 1.0501 | 0.23 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Rat 13741 had small and flaccid epididymides and testes. See the individual necropsy observations table (Table B16).

b. Rat 13750 had a large left epididymis and left testis minus tunica albuginea. See the individual necropsy observations table (Table B16).

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TABLE B18 (PAGE 15): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % TBW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % TBW | PROSTATE ABS. WT. | PROSTATE REL. % TBW | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13721 | 511. | 0.5828 | 0.11 | 1.6442 | 0.32 | 0.8431 | 0.16 | 0.015 | 2.94 | 2.32 | 0.45 | 32.46 | 6.35 |
| 13722 | 452. | 0.6248 | 0.14 | 2.0050 | 0.44 | 0.8430 | 0.19 | 0.013 | 2.88 | 2.12 | 0.47 | 26.38 | 5.84 |
| 13723 | 321. | 0.6269 | 0.20 | 1.6768 | 0.52 | 0.5950 | 0.18 | 0.010 | 3.12 | 2.18 | 0.68 | 25.29 | 7.88 |
| 13724 | 378. | 0.6778 | 0.18 | 1.7229 | 0.46 | 0.6971 | 0.18 | 0.009 | 2.38 | 2.22 | 0.59 | 20.55 | 5.44 |
| 13725 | 361. | 0.6145 | 0.17 | 1.6811 | 0.46 | 0.7775 | 0.22 | 0.005 | 1.38 | 2.05 | 0.57 | 24.05 | 6.66 |
| 13726 | 465. | 0.5830 | 0.12 | 1.6140 | 0.35 | 1.1966 | 0.26 | 0.011 | 2.36 | 2.39 | 0.51 | 26.25 | 5.64 |
| 13727 | 443. | 0.6714 | 0.15 | 1.6811 | 0.38 | 1.1502 | 0.26 | 0.009 | 2.03 | 2.09 | 0.47 | 27.77 | 6.27 |
| 13728 | 418. | 0.5943 | 0.14 | 1.7995 | 0.43 | 0.8251 | 0.20 | 0.011 | 2.63 | 2.40 | 0.57 | 33.99 | 8.13 |
| 13729 | 439. | 0.6131 | 0.14 | 1.7874 | 0.41 | 0.8078 | 0.18 | 0.008 | 1.82 | 2.26 | 0.51 | 30.46 | 6.94 |
| 13730 | 522. | 0.7137 | 0.14 | 1.9707 | 0.38 | 0.8931 | 0.17 | 0.011 | 2.11 | 2.18 | 0.42 | 36.40 | 6.97 |
| 13731 | 468. | 0.6397 | 0.14 | 1.7492 | 0.37 | 0.6744 | 0.14 | 0.011 | 2.35 | 2.10 | 0.45 | 27.84 | 5.95 |
| 13732b | ---- | 0.31 | ---- | 1.54 | ---- | 0.34 | ---- | 0.006 | ---- | 1.83 | ---- | 15.94 | ---- |
| 13733 | 554. | 0.7056 | 0.13 | 1.8567 | 0.34 | 0.9479 | 0.17 | 0.012 | 2.17 | 2.41 | 0.44 | 34.60 | 6.24 |
| 13734 | 456. | 0.6340 | 0.14 | 1.7743 | 0.39 | 1.2570 | 0.28 | 0.007 | 1.54 | 2.25 | 0.49 | 28.30 | 6.21 |
| 13735 | 446. | 0.6247 | 0.14 | 1.6311 | 0.36 | 0.9716 | 0.22 | 0.007 | 1.57 | 2.22 | 0.50 | 26.33 | 5.90 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13732 was moribund sacrificed on day 45 of study; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B18 (PAGE 16): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % TBW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % TBW | PROSTATE ABS. WT. | PROSTATE REL. % TBW | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13736 | 398. | 0.6535 | 0.16 | 1.7745 | 0.44 | 1.1293 | 0.28 | 0.010 | 2.51 | 1.95 | 0.49 | 26.04 | 6.54 |
| 13737 | 385. | 0.6117 | 0.16 | 1.7991 | 0.47 | 0.6582 | 0.17 | 0.009 | 2.34 | 2.09 | 0.54 | 25.32 | 6.58 |
| 13738 | 475. | 0.7239 | 0.15 | 1.9556 | 0.41 | 0.9491 | 0.20 | 0.012 | 2.53 | 2.25 | 0.47 | 27.00 | 5.68 |
| 13739 | 374. | 0.6380 | 0.17 | 1.7722 | 0.47 | 0.6872 | 0.18 | 0.015 | 4.01 | 2.16 | 0.58 | 23.10 | 6.18 |
| 13740 | 497. | 0.6731 | 0.14 | 1.8953 | 0.38 | 1.0956 | 0.22 | 0.010 | 2.01 | 2.47 | 0.50 | 29.12 | 5.86 |
| 13741 | 358. | 0.3794b | 0.10 | 0.8606b | 0.24 | 0.5990 | 0.17 | 0.007 | 1.96 | 2.18 | 0.61 | 27.33 | 7.63 |
| 13742 | 345. | 0.6017 | 0.17 | 1.5535 | 0.45 | 0.7266 | 0.21 | 0.007 | 2.03 | 2.06 | 0.60 | 25.57 | 7.41 |
| 13743 | 401. | 0.6511 | 0.16 | 1.7824 | 0.44 | 0.8984 | 0.22 | 0.008 | 2.00 | 2.27 | 0.57 | 23.40 | 5.84 |
| 13744 | 394. | 0.6378 | 0.16 | 1.8145 | 0.46 | 0.7553 | 0.19 | 0.012 | 3.04 | 2.25 | 0.57 | 24.04 | 6.10 |
| 13745 | 413. | 0.5834 | 0.14 | 1.7338 | 0.42 | 0.8432 | 0.20 | 0.009 | 2.18 | 2.32 | 0.56 | 29.53 | 7.15 |
| 13746 | 438. | 0.6752 | 0.15 | 1.6953 | 0.39 | 0.8258 | 0.19 | 0.015 | 3.42 | 2.20 | 0.50 | 28.24 | 6.45 |
| 13747 | 321. | 0.6142 | 0.19 | 1.8456 | 0.57 | 0.5597 | 0.17 | 0.016 | 4.98 | 1.88 | 0.58 | 23.29 | 7.26 |
| 13748 | 570. | 0.7365 | 0.13 | 2.0122 | 0.35 | 1.0400 | 0.18 | 0.013 | 2.28 | 2.28 | 0.40 | 31.63 | 5.55 |
| 13749 | 469. | 0.7260 | 0.15 | 1.8831 | 0.40 | 0.8505 | 0.18 | 0.011 | 2.34 | 2.27 | 0.48 | 27.03 | 5.76 |
| 13750 | 449. | 0.6502 | 0.14 | 1.7065 | 0.38 | 0.8981 | 0.20 | 0.013 | 2.90 | 2.04 | 0.45 | 25.92 | 5.77 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13741 had small and flaccid epididymides and testes. See the individual necropsy observations table (Table B16).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B18 (PAGE 17): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13721 | 511. | 2.04 | 0.40 | 2.19 | 0.43 | 0.035 | 6.85 | 0.040 | 7.83 | 0.76 | 0.15 | 0.36 | 0.07 |
| 13722 | 452. | 1.97 | 0.44 | 2.19 | 0.48 | 0.035 | 7.74 | 0.035 | 7.74 | 0.80 | 0.18 | 0.49 | 0.11 |
| 13723 | 321. | 1.96 | 0.61 | 1.94 | 0.60 | 0.033 | 10.28 | 0.028 | 8.72 | 0.72 | 0.22 | 0.37 | 0.12 |
| 13724 | 378. | 2.05 | 0.54 | 2.01 | 0.53 | 0.042 | 11.11 | 0.037 | 9.79 | 0.79 | 0.21 | 0.49 | 0.13 |
| 13725 | 361. | 1.65 | 0.46 | 1.73 | 0.48 | 0.028 | 7.76 | 0.026 | 7.20 | 0.45 | 0.12 | 0.20 | 0.06 |
| 13726 | 465. | 2.21 | 0.48 | 2.20 | 0.47 | 0.029 | 6.24 | 0.039 | 8.39 | 0.93 | 0.20 | 0.51 | 0.11 |
| 13727 | 443. | 2.08 | 0.47 | 2.16 | 0.49 | 0.026 | 5.87 | 0.024 | 5.42 | 0.75 | 0.17 | 0.28 | 0.06 |
| 13728 | 418. | 1.89 | 0.45 | 1.94 | 0.46 | 0.028 | 6.70 | 0.025 | 5.98 | 0.67 | 0.16 | 0.25 | 0.06 |
| 13729 | 439. | 2.13 | 0.48 | 2.05b | 0.47 | 0.020 | 4.56 | 0.014 | 3.19 | 0.52 | 0.12 | 0.25 | 0.06 |
| 13730 | 522. | 2.44 | 0.47 | 2.45 | 0.47 | 0.035 | 6.70 | 0.031 | 5.94 | 0.70 | 0.13 | 0.38 | 0.07 |
| 13731 | 468. | 2.02 | 0.43 | 2.05 | 0.44 | 0.028 | 5.98 | 0.026 | 5.56 | 0.57 | 0.12 | 0.18 | 0.04 |
| 13732c | ---- | 1.22 | ---- | 1.25 | ---- | 0.026 | ---- | 0.026 | ---- | 0.13 | ---- | 0.12 | ---- |
| 13733 | 554. | 2.19 | 0.40 | 2.31d | 0.42 | 0.032 | 5.78 | 0.035 | 6.32 | 0.94 | 0.17 | 0.28 | 0.05 |
| 13734 | 456. | 2.22 | 0.49 | 2.30 | 0.50 | 0.022 | 4.82 | 0.023 | 5.04 | 0.69 | 0.15 | 0.32 | 0.07 |
| 13735 | 446. | 2.06 | 0.46 | 2.23 | 0.50 | 0.030 | 6.73 | 0.014 | 3.14 | 0.97 | 0.22 | 0.40 | 0.09 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Rat 13729 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).
c. Rat 13732 was moribund sacrificed on day 45 of study; values excluded from group averages and statistical analyses.
d. Rat 13733 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B18 (PAGE 18): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13736 | 398. | 1.85 | 0.46 | 1.99 | 0.50 | 0.030 | 7.54 | 0.023 | 5.78 | 0.72 | 0.18 | 0.28 | 0.07 |
| 13737 | 385. | 1.73 | 0.45 | 1.79 | 0.46 | 0.021 | 5.45 | 0.017 | 4.42 | 0.65 | 0.17 | 0.20 | 0.05 |
| 13738 | 475. | 1.98 | 0.42 | 1.95 | 0.41 | 0.037 | 7.79 | 0.032 | 6.74 | 0.73 | 0.15 | 0.32 | 0.07 |
| 13739 | 374. | 1.95 | 0.52 | 2.01 | 0.54 | 0.026 | 6.95 | 0.025 | 6.68 | 0.69 | 0.18 | 0.25 | 0.07 |
| 13740 | 497. | 1.98 | 0.40 | 2.15 | 0.43 | 0.024 | 4.83 | 0.027 | 5.43 | 0.80 | 0.16 | 0.27 | 0.05 |
| 13741 | 358. | 1.82 | 0.51 | 2.02 | 0.56 | 0.009 | 2.51 | 0.014 | 3.91 | 0.42 | 0.12 | 0.20 | 0.06 |
| 13742 | 345. | 1.60 | 0.46 | 1.64 | 0.48 | 0.027 | 7.83 | 0.029 | 8.40 | 0.86 | 0.25 | 0.17 | 0.05 |
| 13743 | 401. | 1.87 | 0.47 | 1.93 | 0.48 | 0.020 | 4.99 | 0.026 | 6.48 | 0.62 | 0.15 | 0.20 | 0.05 |
| 13744 | 394. | 1.80 | 0.46 | 1.94 | 0.49 | 0.029 | 7.36 | 0.028 | 7.11 | 0.58 | 0.15 | 0.29 | 0.07 |
| 13745 | 413. | 1.92 | 0.46 | 2.07 | 0.50 | 0.026 | 6.30 | 0.026 | 6.30 | 0.73 | 0.18 | 0.28 | 0.07 |
| 13746 | 438. | 2.27 | 0.52 | 2.20 | 0.50 | 0.028 | 6.39 | 0.025 | 5.71 | 0.74 | 0.17 | 0.35 | 0.08 |
| 13747 | 321. | 1.89 | 0.59 | 1.93 | 0.60 | 0.031 | 9.66 | 0.020 | 6.23 | 0.51 | 0.16 | 0.27 | 0.08 |
| 13748 | 570. | 2.20 | 0.38 | 2.43 | 0.43 | 0.032 | 5.61 | 0.030 | 5.26 | 1.09 | 0.19 | 0.38 | 0.07 |
| 13749 | 469. | 1.79 | 0.38 | 1.78 | 0.38 | 0.029 | 6.18 | 0.028 | 5.97 | 0.87 | 0.18 | 0.29 | 0.06 |
| 13750 | 449. | 2.07 | 0.46 | 2.04 | 0.45 | 0.021 | 4.68 | 0.020 | 4.45 | 1.06 | 0.24 | 0.27 | 0.06 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 1): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13601 | 2.36 | 0.6756 | 28.63 | 0.2966 | 12.57 | 1.5259 | 64.66 | 1.2920 | 54.74 | 1.3897 | 58.88 | 0.9914 | 42.01 |
| 13602 | 2.38 | 0.6786 | 28.51 | 0.3086 | 12.97 | 1.6647 | 69.94 | 1.5221 | 63.95 | 2.2138 | 93.02 | 1.2279 | 51.59 |
| 13603 | 2.19 | 0.7340 | 33.52 | 0.3341 | 15.26 | 1.7979 | 82.10 | 1.6608 | 75.84 | 2.2003 | 100.47 | 1.3738 | 62.73 |
| 13604 | 2.40 | 0.7152 | 29.80 | 0.3136 | 13.07 | 1.9262 | 80.26 | 1.7009 | 70.87 | 1.6708 | 69.62 | 1.1445 | 47.69 |
| 13605 | 2.22 | 0.7034 | 31.68 | 0.3543 | 15.96 | 1.8636 | 83.94 | 1.7079 | 76.93 | 2.1486 | 96.78 | 1.1320 | 50.99 |
| 13606 | 2.24 | 0.7420 | 33.12 | 0.3611 | 16.12 | 1.8832 | 84.07 | 1.7583 | 78.50 | 1.7423a | 77.78a | 1.2432 | 55.50 |
| 13607 | 2.35 | 0.6822 | 29.03 | 0.3203 | 13.63 | 1.8506 | 78.75 | 1.7435 | 74.19 | 2.1930 | 93.32 | 1.0702 | 45.54 |
| 13608 | 2.33 | 0.7947 | 34.11 | 0.3453 | 14.82 | 1.8574 | 79.72 | 1.7354 | 74.48 | 2.1517 | 92.35 | 1.2132 | 52.07 |
| 13609 | 2.11 | 0.5497 | 26.05 | 0.2145 | 10.16 | 1.6417 | 77.80 | 1.4397 | 68.23 | 2.6536 | 125.76 | 1.4047 | 66.57 |
| 13610 | 1.86 | 0.6732 | 36.19 | 0.2883 | 15.50 | 1.5787 | 84.88 | 1.4846 | 79.82 | 2.7678 | 148.81 | 1.3165 | 70.78 |
| 13611 | 2.32 | 0.6526 | 28.13 | 0.3271 | 14.10 | 1.7823 | 76.82 | 1.6617 | 71.62 | 2.1404 | 92.26 | 1.1786 | 50.80 |
| 13612 | 2.11 | 0.6830 | 32.37 | 0.2887 | 13.68 | 1.7653 | 83.66 | 1.6275 | 77.13 | 2.4939 | 118.19 | 1.3161 | 62.37 |
| 13613 | 2.51 | 0.6764 | 26.95 | 0.3010 | 11.99 | 1.7861 | 71.16 | 1.6113 | 64.20 | 1.9469 | 77.56 | 1.3192 | 52.56 |
| 13614 | 2.19 | 0.6695 | 30.57 | 0.2733 | 12.48 | 1.5910 | 72.65 | 1.4794 | 67.55 | 2.2970 | 104.88 | 1.0604 | 48.42 |
| 13615 | 2.25 | 0.7240 | 32.18 | 0.3652 | 16.23 | 1.9534 | 86.82 | 1.8326 | 81.45 | 2.5074 | 111.44 | 1.4403 | 64.01 |
| 13616 | 2.52 | 0.7570 | 30.04 | 0.3567 | 14.15 | 1.9754 | 78.39 | 1.8243 | 72.39 | 2.5305 | 100.42 | 1.3395 | 53.15 |
| 13617 | 2.52 | 0.7783 | 30.88 | 0.3479 | 13.80 | 1.7610 | 69.88 | 1.6507 | 65.50 | 2.1888 | 86.86 | 1.2973 | 51.48 |
| 13618 | 2.27 | 0.7269 | 32.02 | 0.3458 | 15.23 | 1.8719 | 82.46 | 1.7273 | 76.09 | 2.3224 | 102.31 | 1.3218 | 58.23 |
| 13619 | 2.33 | 0.7967 | 34.19 | 0.3973 | 17.05 | 1.9766 | 84.83 | 1.8446 | 79.17 | 2.6549 | 113.94 | 1.5503 | 66.54 |
| 13620 | 2.21 | 0.7542 | 34.13 | 0.3459 | 15.65 | 1.8314 | 82.87 | 1.7046 | 77.13 | 2.1074 | 95.36 | 1.0458 | 47.32 |
| 13621 | 2.15 | 0.6623 | 30.80 | 0.3287 | 15.29 | 1.6391 | 76.24 | 1.5212 | 70.75 | 2.4345 | 113.23 | 1.3000 | 60.46 |
| 13622 | 2.22 | 0.7321 | 32.98 | 0.3161 | 14.24 | 1.7766 | 80.03 | 1.6795 | 75.65 | 2.2753 | 102.49 | 1.2186 | 54.89 |
| 13623 | 2.45 | 0.7364 | 30.06 | 0.3896 | 15.90 | 1.6860 | 68.82 | 1.5789 | 64.44 | 2.0262 | 82.70 | 1.1769 | 48.04 |
| 13624 | 1.83 | 0.7481 | 40.88 | 0.3361 | 18.37 | 1.8174 | 99.31 | 1.6876 | 92.22 | 1.8379 | 100.43 | 0.9276 | 50.69 |
| 13625 | 2.25b | 0.7424 | 33.00 | 0.2999 | 13.33 | 1.7695 | 78.64 | 1.6738 | 74.39 | 2.9931 | 133.03 | 1.3586 | 60.38 |
| 13626 | 2.33 | 0.8408 | 36.08 | 0.3786 | 16.25 | 1.9527 | 83.81 | 1.8342 | 78.72 | 2.6403 | 113.32 | 1.4879 | 63.86 |
| 13627 | 2.17 | 0.7204 | 33.20 | 0.3192 | 14.71 | 1.6706 | 76.99 | 1.5585 | 71.82 | 2.4498 | 112.89 | 1.3752 | 63.37 |
| 13628 | 2.10 | 0.7515 | 35.78 | 0.3760 | 17.90 | 1.8851 | 89.77 | 1.7864 | 85.07 | 2.6437 | 125.89 | 1.5575 | 74.17 |
| 13629 | 2.10 | 0.6810 | 32.43 | 0.3307 | 15.75 | 1.6630 | 79.19 | 1.5519 | 73.90 | 2.3510 | 111.95 | 1.3665 | 65.07 |
| 13630 | 2.43 | 0.8494 | 34.95 | 0.3993 | 16.43 | 2.1140 | 87.00 | 1.9567 | 80.52 | 2.0128 | 82.83 | 1.3021 | 53.58 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (some fluid loss prior to weighing); values excluded from group averages and statistical analyses.
b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 2): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13601 | 2.36 | 0.6727 | 28.50 | 1.5705 | 66.55 | 0.9769 | 41.39 | 0.016 | 0.68 | 23.61 | 1000.42 | 2.17 | 91.95 |
| 13602 | 2.38 | 0.6538 | 27.47 | 1.5701 | 65.97 | 1.0477 | 44.02 | 0.014 | 0.59 | 22.78 | 957.14 | 2.55 | 107.14 |
| 13603 | 2.19 | 0.7422 | 33.89 | 1.8434 | 84.17 | 1.1461 | 52.33 | 0.012 | 0.55 | 18.43 | 841.55 | 1.90 | 86.76 |
| 13604 | 2.40 | 0.7242 | 30.18 | 1.8830 | 78.46 | 1.2982 | 54.09 | 0.016 | 0.67 | 20.30 | 845.83 | 2.33 | 97.08 |
| 13605 | 2.22 | 0.7013 | 31.59 | 1.8294 | 82.40 | 0.8545 | 38.49 | 0.014 | 0.63 | 15.86 | 714.41 | 2.26 | 101.80 |
| 13606 | 2.24 | 0.7714 | 34.44 | 1.9176 | 85.61 | 1.2630 | 56.38 | 0.009 | 0.40 | 22.82 | 1018.75 | 2.25 | 100.45 |
| 13607 | 2.35 | 0.6884 | 29.29 | 1.8831 | 80.13 | 1.4560 | 61.96 | 0.014 | 0.60 | 18.53 | 788.51 | 2.17 | 92.34 |
| 13608 | 2.33 | 0.7813 | 33.53 | 1.9010 | 81.59 | 1.3797 | 59.21 | 0.015 | 0.64 | 19.26 | 826.61 | 2.12 | 90.99 |
| 13609 | 2.11 | 0.6624 | 31.39 | 2.3432 | 111.05 | 1.2521 | 59.34 | 0.029 | 1.37 | 23.25 | 1101.90 | 2.33 | 110.43 |
| 13610 | 1.86 | 0.6645 | 35.72 | 1.5825 | 85.08 | 1.1033 | 59.32 | 0.017 | 0.91 | 22.41 | 1204.84 | 2.31 | 124.19 |
| 13611 | 2.32 | 0.6452 | 27.81 | 1.8363 | 79.15 | 1.1326 | 48.82 | 0.018 | 0.78 | 22.68 | 977.59 | 2.47 | 106.46 |
| 13612 | 2.11 | 0.7042 | 33.37 | 1.8260 | 86.54 | 1.0173 | 48.21 | 0.012 | 0.57 | 17.03 | 807.11 | 2.18 | 103.32 |
| 13613 | 2.51 | 0.6920 | 27.57 | 1.8150 | 72.31 | 1.2060 | 48.05 | 0.013 | 0.52 | 21.60 | 860.56 | 2.50 | 99.60 |
| 13614 | 2.19 | 0.6590 | 30.09 | 1.5240 | 69.59 | 1.2564 | 57.37 | 0.016 | 0.73 | 20.68 | 944.29 | 2.53 | 115.52 |
| 13615 | 2.25 | 0.7307 | 32.48 | 1.9427 | 86.34 | 1.0383 | 46.15 | 0.012 | 0.53 | 20.97 | 932.00 | 1.85 | 82.22 |
| 13616 | 2.52 | 0.7448 | 29.56 | 1.9684 | 78.11 | 0.9796 | 38.87 | 0.015 | 0.60 | 25.02 | 992.86 | 2.58 | 102.38 |
| 13617 | 2.52 | 0.8023 | 31.84 | 1.7778 | 70.55 | 1.0554 | 41.88 | 0.013 | 0.52 | 16.93 | 671.82 | 1.92 | 76.19 |
| 13618 | 2.27 | 0.6947 | 30.60 | 1.7963 | 79.13 | 1.0403 | 45.83 | 0.008 | 0.35 | 19.31 | 850.66 | 1.99 | 87.66 |
| 13619 | 2.33 | 0.8216 | 35.26 | 2.0150 | 86.48 | 1.1757 | 50.46 | 0.016 | 0.69 | 21.32 | 915.02 | 2.09 | 89.70 |
| 13620 | 2.21 | 0.6324 | 28.62 | 1.7662 | 79.92 | 1.3352 | 60.42 | 0.014 | 0.63 | 20.80 | 941.18 | 2.02 | 91.40 |
| 13621 | 2.15 | 0.6737 | 31.33 | 1.7174 | 79.88 | 1.1837 | 55.06 | 0.012 | 0.56 | 16.17 | 752.09 | 2.15 | 100.00 |
| 13622 | 2.22 | 0.6907 | 31.11 | 1.6943 | 76.32 | 1.2359 | 55.67 | 0.009 | 0.40 | 18.88 | 850.45 | 2.30 | 103.60 |
| 13623 | 2.45 | 0.7404 | 30.22 | 1.7379 | 70.93 | 1.2678 | 51.75 | 0.015 | 0.61 | 19.31 | 788.16 | 2.10 | 85.71 |
| 13624 | 1.83 | 0.7047 | 38.51 | 1.8086 | 98.83 | 0.9132 | 49.90 | 0.011 | 0.60 | 18.10 | 989.07 | 2.11 | 115.30 |
| 13625 | 2.25a | 0.7624 | 33.88 | 1.7619 | 78.31 | 1.1731 | 52.14 | 0.014 | 0.62 | 19.76 | 878.22 | 1.99 | 88.44 |
| 13626 | 2.33 | 0.8685 | 37.27 | 1.9505 | 83.71 | 1.6005 | 68.69 | 0.018 | 0.77 | 24.67 | 1058.80 | 2.28 | 97.85 |
| 13627 | 2.17 | 0.7318 | 33.72 | 1.6434 | 75.73 | 1.1031 | 50.83 | 0.011 | 0.51 | 17.86 | 823.04 | 2.09 | 96.31 |
| 13628 | 2.10 | 0.7165 | 34.12 | 1.8347 | 87.37 | 0.8151 | 38.81 | 0.012 | 0.57 | 22.09 | 1051.90 | 2.08 | 99.05 |
| 13629 | 2.10 | 0.6744 | 32.11 | 1.6857 | 80.27 | 1.0534 | 50.16 | 0.011 | 0.52 | 18.41 | 876.67 | 2.03 | 96.67 |
| 13630 | 2.43 | 0.8078 | 33.24 | 2.0934 | 86.15 | 0.7730 | 31.81 | 0.014 | 0.58 | 20.24 | 832.92 | 2.07 | 85.18 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 3): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | |
| 13601 | 2.36 | 2.19 | 92.80 | 0.030 | 1.27 | 0.031 | 1.31 | 0.75 | 31.78 | 0.38 | 16.10 |
| 13602 | 2.38 | 2.55 | 107.14 | 0.032 | 1.34 | 0.035 | 1.47 | 0.96 | 40.34 | 0.63 | 26.47 |
| 13603 | 2.19 | 1.96 | 89.50 | 0.031 | 1.42 | 0.026 | 1.19 | 0.69 | 31.51 | 0.38 | 17.35 |
| 13604 | 2.40 | 2.28 | 95.00 | 0.026 | 1.08 | 0.033 | 1.38 | 1.11 | 46.25 | 0.69 | 28.75 |
| 13605 | 2.22 | 2.25 | 101.35 | 0.029 | 1.31 | 0.028 | 1.26 | 1.00 | 45.04 | 0.45 | 20.27 |
| 13606 | 2.24 | 2.39 | 106.70 | 0.044 | 1.96 | 0.039 | 1.74 | 1.20 | 53.57 | 0.55 | 24.55 |
| 13607 | 2.35 | 2.14 | 91.06 | 0.046 | 1.96 | 0.021 | 0.89 | 0.83 | 35.32 | 0.41 | 17.45 |
| 13608 | 2.33 | 2.15 | 92.27 | 0.031 | 1.33 | 0.033 | 1.42 | 0.90 | 38.63 | 0.52 | 22.32 |
| 13609 | 2.11 | 2.43 | 115.16 | 0.031 | 1.47 | 0.029 | 1.37 | 1.04 | 49.29 | 0.42 | 19.90 |
| 13610 | 1.86 | 2.29 | 123.12 | 0.028 | 1.50 | 0.028 | 1.50 | 0.76 | 40.86 | 0.32 | 17.20 |
| 13611 | 2.32 | 2.38 | 102.59 | 0.035 | 1.51 | 0.038 | 1.64 | 0.94 | 40.52 | 0.29 | 12.50 |
| 13612 | 2.11 | 2.21 | 104.74 | 0.033 | 1.56 | 0.032 | 1.52 | 0.79 | 37.44 | 0.34 | 16.11 |
| 13613 | 2.51 | 2.32 | 92.43 | 0.029 | 1.16 | 0.033 | 1.31 | 0.98 | 39.04 | 0.49 | 19.52 |
| 13614 | 2.19 | 2.31 | 105.48 | 0.028 | 1.28 | 0.027 | 1.23 | 0.98 | 44.75 | 0.49 | 22.37 |
| 13615 | 2.25 | 2.03 | 90.22 | 0.035 | 1.56 | 0.039 | 1.73 | 1.01 | 44.89 | 0.40 | 17.78 |
| 13616 | 2.52 | 2.61 | 103.57 | 0.042 | 1.67 | 0.035 | 1.39 | 1.26 | 50.00 | 0.41 | 16.27 |
| 13617 | 2.52 | 2.05 | 81.35 | 0.032 | 1.27 | 0.031 | 1.23 | 1.12 | 44.44 | 0.50 | 19.84 |
| 13618 | 2.27 | 1.89 | 83.26 | 0.032 | 1.41 | 0.036 | 1.58 | 0.80 | 35.24 | 0.32 | 14.10 |
| 13619 | 2.33 | 2.03 | 87.12 | 0.035 | 1.50 | 0.033 | 1.42 | 0.93 | 39.91 | 0.39 | 16.74 |
| 13620 | 2.21 | 1.99 | 90.04 | 0.028 | 1.27 | 0.029 | 1.31 | 1.32 | 59.73 | 0.52 | 23.53 |
| 13621 | 2.15 | 2.12 | 98.60 | 0.027 | 1.26 | 0.023 | 1.07 | 0.85 | 39.53 | 0.40 | 18.60 |
| 13622 | 2.22 | 2.20 | 99.10 | 0.035 | 1.58 | 0.045 | 2.03 | 0.68 | 30.63 | 0.44 | 19.82 |
| 13623 | 2.45 | 2.30 | 93.88 | 0.033 | 1.35 | 0.031 | 1.26 | 0.80 | 32.65 | 0.33 | 13.47 |
| 13624 | 1.83 | 2.15 | 117.49 | 0.027 | 1.48 | 0.022 | 1.20 | 0.87 | 47.54 | 0.57 | 31.15 |
| 13625 | 2.25a | 2.09 | 92.89 | 0.027 | 1.20 | 0.027 | 1.20 | 0.87 | 38.67 | 0.31 | 13.78 |
| 13626 | 2.33 | 2.34 | 100.43 | 0.034 | 1.46 | 0.036 | 1.54 | 0.96 | 41.20 | 0.49 | 21.03 |
| 13627 | 2.17 | 2.05 | 94.47 | 0.032 | 1.47 | 0.036 | 1.66 | 0.94 | 43.32 | 0.42 | 19.35 |
| 13628 | 2.10 | 2.01 | 95.71 | 0.035 | 1.67 | 0.031 | 1.48 | 1.07 | 50.95 | 0.50 | 23.81 |
| 13629 | 2.10 | 1.99 | 94.76 | 0.029 | 1.38 | 0.033 | 1.57 | 0.68 | 32.38 | 0.26 | 12.38 |
| 13630 | 2.43 | 2.03 | 83.54 | 0.032 | 1.32 | 0.028 | 1.15 | 0.97 | 39.92 | 0.46 | 18.93 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 4): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT | | CAUDA EPIDIDYMIS LEFT | | TESTIS LEFT | | L. TESTIS MINUS TUNICA ALBUGINEA | | SEMINAL VESICLES WITH FLUID | | SEMINAL VESICLES WITHOUT FLUID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13631 | 2.22 | 0.6495 | 29.26 | 0.2998 | 13.50 | 1.6770 | 75.54 | 1.5445 | 69.57 | 2.4075 | 108.44 | 1.5081 | 67.93 |
| 13632 | 2.34 | 0.7034 | 30.06 | 0.3166 | 13.53 | 1.9768 | 84.48 | 1.8290 | 78.16 | 2.8763 | 122.92 | 1.4047 | 60.03 |
| 13633 | 2.43 | 0.7044 | 28.99 | 0.3546 | 14.59 | 1.7819 | 73.33 | 1.6458 | 67.73 | 3.2227 | 132.62 | 1.5709 | 64.65 |
| 13634 | 2.13 | 0.7068 | 33.18 | 0.3369 | 15.82 | 1.8226 | 85.57 | 1.6586 | 77.87 | 1.6848 | 79.10 | 1.1637 | 54.63 |
| 13635 | 2.07 | 0.6053 | 29.24 | 0.2813 | 13.59 | 1.6595 | 80.17 | 1.5483 | 74.80 | 1.4917 | 72.06 | 0.8167 | 39.45 |
| 13636 | 2.17 | 0.7697 | 35.47 | 0.3525 | 16.24 | 1.8739 | 86.35 | 1.6712 | 77.01 | 2.3337 | 107.54 | 1.2939 | 59.63 |
| 13637 | 2.26 | 0.7061 | 31.24 | 0.3434 | 15.19 | 1.6545 | 73.21 | 1.5240 | 67.43 | 2.5335 | 112.10 | 1.3047 | 57.73 |
| 13638 | 2.43 | 0.6470 | 26.62 | 0.2792 | 11.49 | 1.9344 | 79.60 | 1.8105 | 74.51 | 2.3501 | 96.71 | 1.1924 | 49.07 |
| 13639 | 2.42 | 0.7020 | 29.01 | 0.2951 | 12.19 | 2.0283 | 83.81 | 1.8573 | 76.75 | 2.3202 | 95.88 | 1.0796 | 44.61 |
| 13640 | 2.20 | 0.7283 | 33.10 | 0.3536 | 16.07 | 1.8745 | 85.20 | 1.7670 | 80.32 | 2.6251 | 119.32 | 1.3840 | 62.91 |
| 13641 | 2.26 | 0.7490 | 33.14 | 0.3527 | 15.61 | 1.8714 | 82.80 | 1.7242 | 76.29 | 2.3899 | 105.75 | 1.2356 | 54.67 |
| 13642 | 2.34 | 0.7241 | 30.94 | 0.3150 | 13.46 | 1.7279 | 73.84 | 1.6227 | 69.35 | 2.4003 | 102.58 | 1.2870 | 55.00 |
| 13643 | 2.21 | 0.7330 | 33.17 | 0.3398 | 15.38 | 1.9500 | 88.24 | 1.8364 | 83.10 | 2.5036 | 113.28 | 1.2468 | 56.42 |
| 13644 | 2.44 | 0.7089 | 29.05 | 0.3200 | 13.11 | 1.9383 | 79.44 | 1.8199 | 74.59 | 2.1300 | 87.30 | 1.2740 | 52.21 |
| 13645 | 2.25 | 0.6784 | 30.15 | 0.3183 | 14.15 | 1.6234 | 72.15 | 1.5062 | 66.94 | 2.4119 | 107.20 | 1.2195 | 54.20 |
| 13646 | 2.31 | 0.6822 | 29.53 | 0.3463 | 14.99 | 1.6999 | 73.59 | 1.5800 | 68.40 | 2.0676 | 89.51 | 1.1076 | 47.95 |
| 13647 | 2.25 | 0.6658 | 29.59 | 0.2982 | 13.25 | 1.7814 | 79.17 | 1.6328 | 72.57 | 2.6220 | 116.53 | 1.4890 | 66.18 |
| 13648 | 2.33 | 0.6317 | 27.11 | 0.3064 | 13.15 | 1.8391 | 78.93 | 1.7159 | 73.64 | 2.1504 | 92.29 | 1.1768 | 50.51 |
| 13649 | 2.35 | 0.6941 | 29.54 | 0.3058 | 13.01 | 1.7156 | 73.00 | 1.6256 | 69.17 | 2.2035 | 93.76 | 1.1379 | 48.42 |
| 13650 | 2.32 | 0.7437 | 32.06 | 0.2876 | 12.40 | 1.9510 | 84.09 | 1.8355 | 79.12 | 2.4213 | 104.37 | 1.4614 | 62.99 |
| 13651 | 2.38 | 0.7134 | 29.97 | 0.3282 | 13.79 | 1.9750 | 82.98 | 1.8339 | 77.05 | 2.5200 | 105.88 | 1.4917 | 62.68 |
| 13652 | 2.26 | 0.7191 | 31.82 | 0.3231 | 14.30 | 1.7946 | 79.41 | 1.6913 | 74.84 | 2.4900 | 110.18 | 1.2234 | 54.13 |
| 13653 | 2.37 | 0.6303 | 26.59 | 0.2784 | 11.75 | 1.8551 | 78.27 | 1.6992 | 71.70 | 1.6932 | 71.44 | 1.0140 | 42.78 |
| 13654 | 2.23 | 0.6840 | 30.67 | 0.2935 | 13.16 | 1.5110 | 67.76 | 1.4044 | 62.98 | 2.3628 | 105.96 | 1.1243 | 50.42 |
| 13655 | 2.33 | 0.8054 | 34.57 | 0.3335 | 14.31 | 2.1552 | 92.50 | 1.9836 | 85.13 | 2.8403 | 121.90 | 1.4880 | 63.86 |
| 13656 | 2.31 | 0.7198 | 31.16 | 0.3468 | 15.01 | 1.7050 | 73.81 | 1.6041 | 69.44 | 2.2805 | 98.72 | 1.2083 | 52.31 |
| 13657 | 2.10 | 0.6277 | 29.89 | 0.3055 | 14.55 | 1.7519 | 83.42 | 1.6518 | 78.66 | 2.1178 | 100.85 | 1.0602 | 50.48 |
| 13658 | 2.31 | 0.6425 | 27.81 | 0.2637 | 11.42 | 1.5617 | 67.61 | 1.4618 | 63.28 | 2.1529 | 93.20 | 1.1517 | 49.86 |
| 13659 | 2.17a | 0.7407 | 34.13 | 0.3172 | 14.62 | 1.9318 | 89.02 | 1.8052 | 83.19 | 2.1495 | 99.06 | 1.2183 | 56.14 |
| 13660 | 2.28 | 0.7581 | 33.25 | 0.3225 | 14.14 | 1.6871 | 74.00 | 1.5755 | 69.10 | 2.2241 | 97.55 | 1.2827 | 56.26 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 5): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT | | TESTIS RIGHT | | PROSTATE | | PITUITARY | | LIVER | | KIDNEY LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13631 | 2.22 | 0.6184 | 27.86 | 1.6665 | 75.07 | 1.2524 | 56.41 | 0.016 | 0.72 | 23.73 | 1068.92 | 2.49 | 112.16 |
| 13632 | 2.34 | 0.7187 | 30.71 | 2.0272 | 86.63 | 1.3965 | 59.68 | 0.015 | 0.64 | 26.29 | 1123.50 | 2.97 | 126.92 |
| 13633 | 2.43 | 0.7346 | 30.23 | 1.8301 | 75.31 | 1.1854 | 48.78 | 0.020 | 0.82 | 20.13 | 828.40 | 2.67 | 109.88 |
| 13634 | 2.13 | 0.7092 | 33.30 | 1.8432 | 86.54 | 0.9863 | 46.30 | 0.015 | 0.70 | 24.69 | 1159.15 | 2.79 | 130.98 |
| 13635 | 2.07 | 0.6527 | 31.53 | 1.7937 | 86.65 | 1.1001 | 53.14 | 0.010 | 0.48 | 23.30 | 1125.60 | 2.32 | 112.08 |
| 13636 | 2.17 | 0.3677a | 16.94 | 0.8983a | 41.40 | 1.2274 | 56.56 | 0.012 | 0.55 | 27.55 | 1269.58 | 2.73 | 125.81 |
| 13637 | 2.26 | 0.7132 | 31.56 | 1.6779 | 74.24 | 1.1159 | 49.38 | 0.016 | 0.71 | 25.31 | 1119.91 | 2.29 | 101.33 |
| 13638 | 2.43 | 0.6219 | 25.59 | 1.9129 | 78.72 | 1.3568 | 55.84 | 0.017 | 0.70 | 26.08 | 1073.25 | 2.64 | 108.64 |
| 13639 | 2.42 | 0.6966 | 28.78 | 2.0712 | 85.59 | 1.0950 | 45.25 | 0.008 | 0.33 | 26.73 | 1104.54 | 2.72 | 112.40 |
| 13640 | 2.20 | 0.6905 | 31.39 | 1.9493 | 88.60 | 0.9987 | 45.40 | 0.017 | 0.77 | 32.23 | 1465.00 | 2.74 | 124.54 |
| 13641 | 2.26 | 0.7322 | 32.40 | 1.8401 | 81.42 | 0.9751 | 43.15 | 0.015 | 0.66 | 25.22 | 1115.93 | 2.66 | 117.70 |
| 13642 | 2.34 | 0.7423 | 31.72 | 1.7467 | 74.64 | 1.2793 | 54.67 | 0.012 | 0.51 | 19.48 | 832.48 | 2.20 | 94.02 |
| 13643 | 2.21 | 0.7523 | 34.04 | 2.5181 | 113.94 | 1.1153 | 50.47 | 0.016 | 0.72 | 25.04 | 1133.03 | 2.84 | 128.51 |
| 13644 | 2.44 | 0.7081 | 29.02 | 1.8376 | 75.31 | 1.1768 | 48.23 | 0.009 | 0.37 | 24.65 | 1010.24 | 2.58 | 105.74 |
| 13645 | 2.25 | 0.6380 | 28.36 | 1.5823 | 70.32 | 1.0379 | 46.13 | 0.019 | 0.84 | 23.13 | 1028.00 | 2.80 | 124.44 |
| 13646 | 2.31 | 0.6909 | 29.91 | 1.7069 | 73.89 | 1.4184 | 61.40 | 0.012 | 0.52 | 22.38 | 968.83 | 2.68 | 116.02 |
| 13647 | 2.25 | 0.6756 | 30.03 | 2.6503 | 117.79 | 0.6843 | 30.41 | 0.013 | 0.58 | 25.86 | 1149.33 | 2.67 | 118.67 |
| 13648 | 2.33 | 0.6579 | 28.24 | 1.9075 | 81.87 | 1.0489 | 45.02 | 0.011 | 0.47 | 22.58 | 969.10 | 2.41 | 103.43 |
| 13649 | 2.35 | 0.6966 | 29.64 | 1.6978 | 72.25 | 1.4685 | 62.49 | 0.015 | 0.64 | 29.17 | 1241.28 | 2.55 | 108.51 |
| 13650 | 2.32 | 0.7426 | 32.01 | 2.0238 | 87.23 | 1.1363 | 48.98 | 0.012 | 0.52 | 22.99 | 990.95 | 2.22 | 95.69 |
| 13651 | 2.38 | 0.7281 | 30.59 | 1.9809 | 83.23 | 0.8039 | 33.78 | 0.013 | 0.55 | 22.73 | 955.04 | 2.56 | 107.56 |
| 13652 | 2.26 | 0.7464 | 33.03 | 1.8349 | 81.19 | 0.9861 | 43.63 | 0.016 | 0.71 | 22.86 | 1011.50 | 2.55 | 112.83 |
| 13653 | 2.37 | 0.6316 | 26.65 | 1.7942 | 75.70 | 1.1095 | 46.81 | 0.010 | 0.42 | 17.07 | 720.25 | 2.06 | 86.92 |
| 13654 | 2.23 | 0.6388 | 28.64 | 1.5501 | 69.51 | 1.2735 | 57.11 | 0.015 | 0.67 | 26.32 | 1180.27 | 2.22 | 99.55 |
| 13655 | 2.33 | 0.7879 | 33.82 | 2.1403 | 91.86 | 0.9730 | 41.76 | 0.014 | 0.60 | 29.05 | 1246.78 | 2.87 | 123.18 |
| 13656 | 2.31 | 0.7250 | 31.38 | 1.7659 | 76.44 | 1.6851 | 72.95 | 0.014 | 0.61 | 19.16 | 829.44 | 1.89 | 81.82 |
| 13657 | 2.10 | 0.6460 | 30.76 | 1.7433 | 83.01 | 1.1798 | 56.18 | 0.013 | 0.62 | 23.90 | 1138.10 | 2.20 | 104.76 |
| 13658 | 2.31 | 0.6287 | 27.22 | 1.5591 | 67.49 | 0.8826 | 38.21 | 0.016 | 0.69 | 22.05 | 954.54 | 2.20 | 95.24 |
| 13659 | 2.17b | 0.7940 | 36.59 | 2.0007 | 92.20 | 1.1305 | 52.10 | 0.013 | 0.60 | 21.10 | 972.35 | 2.11 | 97.24 |
| 13660 | 2.28 | 0.7865 | 34.50 | 1.6440 | 72.10 | 1.1982 | 52.55 | 0.014 | 0.61 | 27.36 | 1200.00 | 2.67 | 117.10 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13636 had a small and flaccid right epididymis and right testis. See the individual necropsy observations table (Table B16).

b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 6): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | |
| 13631 | 2.22 | 2.48 | 111.71 | 0.034 | 1.53 | 0.034 | 1.53 | 0.95 | 42.79 | 0.39 | 17.57 |
| 13632 | 2.34 | 2.84 | 121.37 | 0.038 | 1.62 | 0.038 | 1.62 | 0.92 | 39.32 | 0.38 | 16.24 |
| 13633 | 2.43 | 2.62 | 107.82 | 0.032 | 1.32 | 0.031 | 1.28 | 0.68 | 27.98 | 0.26 | 10.70 |
| 13634 | 2.13 | 3.00 | 140.84 | 0.037 | 1.74 | 0.036 | 1.69 | 1.06 | 49.76 | 0.50 | 23.47 |
| 13635 | 2.07 | 2.15 | 103.86 | 0.028 | 1.35 | 0.028 | 1.35 | 0.70 | 33.82 | 0.41 | 19.81 |
| 13636 | 2.17 | 2.97 | 136.87 | 0.029 | 1.34 | 0.030 | 1.38 | 0.94 | 43.32 | 0.52 | 23.96 |
| 13637 | 2.26 | 2.36 | 104.42 | 0.036 | 1.59 | 0.037 | 1.64 | 1.05 | 46.46 | 0.47 | 20.80 |
| 13638 | 2.43 | 2.85 | 117.28 | 0.027 | 1.11 | 0.022 | 0.90 | 0.98 | 40.33 | 0.42 | 17.28 |
| 13639 | 2.42 | 2.44a | 100.83 | 0.036 | 1.49 | 0.029 | 1.20 | 0.90 | 37.19 | 0.25 | 10.33 |
| 13640 | 2.20 | 2.79 | 126.82 | 0.037 | 1.68 | 0.033 | 1.50 | 0.75 | 34.09 | 0.29 | 13.18 |
| 13641 | 2.26 | 2.57 | 113.72 | 0.032 | 1.42 | 0.032 | 1.42 | 1.02 | 45.13 | 0.35 | 15.49 |
| 13642 | 2.34 | 2.15 | 91.88 | 0.032 | 1.37 | 0.031 | 1.32 | 1.08 | 46.15 | 0.29 | 12.39 |
| 13643 | 2.21 | 2.68 | 121.27 | 0.034 | 1.54 | 0.033 | 1.49 | 0.72 | 32.58 | 0.45 | 20.36 |
| 13644 | 2.44 | 2.71 | 111.06 | 0.033 | 1.35 | 0.032 | 1.31 | 0.75 | 30.74 | 0.49 | 20.08 |
| 13645 | 2.25 | 2.77 | 123.11 | 0.038 | 1.69 | 0.036 | 1.60 | 1.02 | 45.33 | 0.31 | 13.78 |
| 13646 | 2.31 | 2.67 | 115.58 | 0.026 | 1.12 | 0.024 | 1.04 | 0.71 | 30.74 | 0.32 | 13.85 |
| 13647 | 2.25 | 2.70 | 120.00 | 0.031 | 1.38 | 0.030 | 1.33 | 0.95 | 42.22 | 0.52 | 23.11 |
| 13648 | 2.33 | 2.56 | 109.87 | 0.027 | 1.16 | 0.026 | 1.12 | 0.81 | 34.76 | 0.33 | 14.16 |
| 13649 | 2.35 | 2.72 | 115.74 | 0.032 | 1.36 | 0.042 | 1.79 | 0.80 | 34.04 | 0.44 | 18.72 |
| 13650 | 2.32 | 2.36 | 101.72 | 0.031 | 1.34 | 0.028 | 1.21 | 1.01 | 43.53 | 0.39 | 16.81 |
| 13651 | 2.38 | 2.80 | 117.65 | 0.029 | 1.22 | 0.025 | 1.05 | 0.93 | 39.08 | 0.43 | 18.07 |
| 13652 | 2.26 | 2.35 | 103.98 | 0.033 | 1.46 | 0.032 | 1.42 | 0.84 | 37.17 | 0.30 | 13.27 |
| 13653 | 2.37 | 2.30 | 97.05 | 0.024 | 1.01 | 0.022 | 0.93 | 0.74 | 31.22 | 0.36 | 15.19 |
| 13654 | 2.23 | 2.20 | 98.65 | 0.040 | 1.79 | 0.041 | 1.84 | 0.89 | 39.91 | 0.42 | 18.83 |
| 13655 | 2.33 | 3.18 | 136.48 | 0.027 | 1.16 | 0.024 | 1.03 | 0.88 | 37.77 | 0.36 | 15.45 |
| 13656 | 2.31 | 1.92 | 83.12 | 0.029 | 1.26 | 0.025 | 1.08 | 0.72 | 31.17 | 0.32 | 13.85 |
| 13657 | 2.10 | 2.17 | 103.33 | 0.029 | 1.38 | 0.032 | 1.52 | 0.86 | 40.95 | 0.31 | 14.76 |
| 13658 | 2.31 | 2.32 | 100.43 | 0.036 | 1.56 | 0.027 | 1.17 | 0.70 | 30.30 | 0.43 | 18.61 |
| 13659 | 2.17b | 2.10 | 96.77 | 0.030 | 1.38 | 0.029 | 1.34 | 0.87 | 40.09 | 0.31 | 14.28 |
| 13660 | 2.28 | 2.63 | 115.35 | 0.031 | 1.36 | 0.030 | 1.32 | 1.01 | 44.30 | 0.51 | 22.37 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13639 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

b. Damaged during processing (weight not affected).

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TABLE B19 (PAGE 7): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13661 | 2.24 | 0.6912 | 30.86 | 0.3254 | 14.53 | 1.9614 | 87.56 | 1.7444 | 77.87 | 2.8329 | 126.47 | 1.4299 | 63.83 |
| 13662 | 2.11 | 0.6733 | 31.91 | 0.3247 | 15.39 | 1.7494 | 82.91 | 1.6186 | 76.71 | 1.7487 | 82.88 | 0.9591 | 45.45 |
| 13663 | 2.32 | 0.7359 | 31.72 | 0.3684 | 15.88 | 1.8987 | 81.84 | 1.7604 | 75.88 | 2.1959 | 94.65 | 1.1255 | 48.51 |
| 13664 | 2.39 | 0.6819 | 28.53 | 0.3250 | 13.60 | 1.8210 | 76.19 | 1.7070 | 71.42 | 2.3292 | 97.46 | 1.2339 | 51.63 |
| 13665 | 2.40 | 0.6495 | 27.06 | 0.3010 | 12.54 | 1.7079 | 71.16 | 1.5898 | 66.24 | 2.2164 | 92.35 | 1.0909 | 45.45 |
| 13666 | 2.00 | 0.6823 | 34.11 | 0.2923 | 14.62 | 1.8632 | 93.16 | 1.7270 | 86.35 | 2.1344 | 106.72 | 1.0447 | 52.24 |
| 13667 | 2.23 | 0.6787 | 30.43 | 0.3297 | 14.78 | 1.6308 | 73.13 | 1.5095 | 67.69 | 2.1297 | 95.50 | 1.2414 | 55.67 |
| 13668 | 2.13 | 0.5743 | 26.96 | 0.2440 | 11.46 | 1.6210 | 76.10 | 1.4979 | 70.32 | 1.8561 | 87.14 | 1.0709 | 50.28 |
| 13669 | 2.34 | 0.6734 | 28.78 | 0.3213 | 13.73 | 1.7453 | 74.58 | 1.5993 | 68.35 | 2.8444 | 121.56 | 1.4370 | 61.41 |
| 13670 | 2.12 | 0.7859 | 37.07 | 0.3657 | 17.25 | 1.8911 | 89.20 | 1.7575 | 82.90 | 2.8418 | 134.05 | 1.4905 | 70.31 |
| 13671 | 2.36 | 0.6692 | 28.36 | 0.2917 | 12.36 | 1.7697 | 74.99 | 1.6395 | 69.47 | 2.1255 | 90.06 | 1.3067 | 55.37 |
| 13672 | 2.22 | 0.6250 | 28.15 | 0.2759 | 12.43 | 1.8034 | 81.23 | 1.6454 | 74.12 | 2.5020 | 112.70 | 1.2914 | 58.17 |
| 13673 | 2.07 | 0.6469 | 31.25 | 0.2756 | 13.31 | 1.6549 | 79.95 | 1.5520 | 74.98 | 2.3554 | 113.79 | 1.2487 | 60.32 |
| 13674 | 2.36 | 0.6486 | 27.48 | 0.2841 | 12.04 | 1.6521 | 70.00 | 1.5435 | 65.40 | 2.1533 | 91.24 | 1.3208 | 55.97 |
| 13675 | 2.22 | 0.6728 | 30.31 | 0.3345 | 15.07 | 1.5921 | 71.72 | 1.4762 | 66.50 | 1.8019 | 81.17 | 1.1959 | 53.87 |
| 13676 | 2.14 | 0.7281 | 34.02 | 0.3253 | 15.20 | 1.9417 | 90.73 | 1.8298 | 85.50 | 2.3180 | 108.32 | 1.3884 | 64.88 |
| 13677 | 2.31 | 0.6628 | 28.69 | 0.3048 | 13.19 | 1.7046 | 73.79 | 1.5908 | 68.86 | 2.6193 | 113.39 | 1.2994 | 56.25 |
| 13678 | 2.35 | 0.6807 | 28.96 | 0.3119 | 13.27 | 1.7415 | 74.11 | 1.5851 | 67.45 | 2.1396 | 91.05 | 1.0874 | 46.27 |
| 13679 | 2.41 | 0.7220 | 29.96 | 0.3292 | 13.66 | 1.7870 | 74.15 | 1.6515 | 68.53 | 2.7896 | 115.75 | 1.5101 | 62.66 |
| 13680 | 2.29 | 0.7099 | 31.00 | 0.3186 | 13.91 | 1.9063 | 83.24 | 1.7722 | 77.39 | 2.0806 | 90.86 | 1.2158 | 53.09 |
| 13681 | 2.42 | 0.7653 | 31.62 | 0.3366 | 13.91 | 2.0456 | 84.53 | 1.9325 | 79.86 | 2.3093 | 95.42 | 1.1777 | 48.66 |
| 13682 | 2.45 | 0.7460 | 30.45 | 0.3481 | 14.21 | 2.0411 | 83.31 | 1.9264 | 78.63 | 2.5467 | 103.95 | 1.3425 | 54.80 |
| 13683 | 2.19 | 0.7294 | 33.30 | 0.2949 | 13.46 | 1.6796 | 76.69 | 1.5543 | 70.97 | 2.7770 | 126.80 | 1.3745 | 62.76 |
| 13684 | 2.20 | 0.7152 | 32.51 | 0.2938 | 13.35 | 1.7144 | 77.93 | 1.5779 | 71.72 | 2.2227 | 101.03 | 1.2772 | 58.05 |
| 13685 | 2.12 | 0.6832 | 32.23 | 0.3172 | 14.96 | 1.8082 | 85.29 | 1.6956 | 79.98 | 2.6755 | 126.20 | 1.5985 | 75.40 |
| 13686 | 2.30 | 0.6252 | 27.18 | 0.2874 | 12.50 | 1.7667 | 76.81 | 1.6740 | 72.78 | 2.0154 | 87.63 | 1.1092 | 48.23 |
| 13687 | 2.34 | 0.6735 | 28.78 | 0.3194 | 13.65 | 1.5957 | 68.19 | 1.4880 | 63.59 | 2.9111 | 124.40 | 1.6056 | 68.62 |
| 13688 | 2.08 | 0.7943 | 38.19 | 0.3601 | 17.31 | 2.0392 | 98.04 | 1.9123 | 91.94 | 2.2724 | 109.25 | 1.2595 | 60.55 |
| 13689 | 2.27 | 0.6982 | 30.76 | 0.3340 | 14.71 | 1.7096 | 75.31 | 1.5964 | 70.32 | 2.4406 | 107.52 | 1.2353 | 54.42 |
| 13690 | 2.28 | 0.6794 | 29.80 | 0.3048 | 13.37 | 1.7594 | 77.17 | 1.6408 | 71.96 | 2.4640 | 108.07 | 1.3996 | 61.38 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 8): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13661 | 2.24 | 0.6942 | 30.99 | 1.9170 | 85.58 | 1.1744 | 52.43 | 0.014 | 0.62 | 28.39 | 1267.41 | 2.49 | 111.16 |
| 13662 | 2.11 | 0.6884 | 32.62 | 1.7684 | 83.81 | 1.0222 | 48.44 | 0.018 | 0.85 | 28.59 | 1354.98 | 2.50 | 118.48 |
| 13663 | 2.32 | 0.7462 | 32.16 | 1.9026 | 82.01 | 0.9513 | 41.00 | 0.008 | 0.34 | 26.16 | 1127.59 | 2.20 | 94.83 |
| 13664 | 2.39 | 0.6483 | 27.12 | 1.7742 | 74.23 | 1.0531 | 44.06 | 0.013 | 0.54 | 28.39 | 1187.87 | 2.26 | 94.56 |
| 13665 | 2.40 | 0.6558 | 27.32 | 1.7255 | 71.90 | 1.0904 | 45.43 | 0.013 | 0.54 | 28.78 | 1199.17 | 2.36 | 98.33 |
| 13666 | 2.00 | 0.7041 | 35.20 | 1.9202 | 96.01 | 1.2313 | 61.56 | 0.010 | 0.50 | 24.12 | 1206.00 | 2.29 | 114.50 |
| 13667 | 2.23 | 0.6941 | 31.12 | 1.6840 | 75.52 | 1.1857 | 53.17 | 0.012 | 0.54 | 31.05 | 1392.38 | 2.43 | 108.97 |
| 13668 | 2.13 | 0.5695 | 26.74 | 1.6580 | 77.84 | 0.8687 | 40.78 | 0.009 | 0.42 | 25.21 | 1183.57 | 2.39 | 112.21 |
| 13669 | 2.34 | 0.7484 | 31.98 | 1.8785 | 80.28 | 1.3318 | 56.91 | 0.013 | 0.56 | 29.67 | 1267.95 | 2.60 | 111.11 |
| 13670 | 2.12 | 0.7844 | 37.00 | 1.8798 | 88.67 | 1.3966 | 65.88 | 0.014 | 0.66 | 27.92 | 1316.98 | 2.29 | 108.02 |
| 13671 | 2.36 | 0.6884 | 29.17 | 1.7400 | 73.73 | 1.0287 | 43.59 | 0.011 | 0.47 | 24.03 | 1018.22 | 2.47 | 104.66 |
| 13672 | 2.22 | 0.6282 | 28.30 | 1.7492 | 78.79 | 1.1247 | 50.66 | 0.011 | 0.50 | 26.01 | 1171.62 | 2.42 | 109.01 |
| 13673 | 2.07 | 0.6464 | 31.23 | 1.6550 | 79.95 | 0.9881 | 47.73 | 0.003 | 0.14 | 28.10 | 1357.49 | 2.54 | 122.70 |
| 13674 | 2.36 | 0.6375 | 27.01 | 1.7158 | 72.70 | 1.1467 | 48.59 | 0.010 | 0.42 | 24.17 | 1024.15 | 2.48 | 105.08 |
| 13675 | 2.22 | 0.6921 | 31.18 | 1.5912 | 71.68 | 0.9485 | 42.72 | 0.014 | 0.63 | 28.39 | 1278.83 | 2.49 | 112.16 |
| 13676 | 2.14 | 0.6965 | 32.55 | 1.9457 | 90.92 | 0.9484 | 44.32 | 0.010 | 0.47 | 22.77 | 1064.02 | 2.33 | 108.88 |
| 13677 | 2.31 | 0.6481 | 28.06 | 1.7060 | 73.85 | 1.4671 | 63.51 | 0.013 | 0.56 | 27.65 | 1196.97 | 2.78 | 120.35 |
| 13678 | 2.35 | 0.6848 | 29.14 | 1.7331 | 73.75 | 1.2232 | 52.05 | 0.011 | 0.47 | 26.48 | 1126.81 | 2.44 | 103.83 |
| 13679 | 2.41 | 0.7450 | 30.91 | 1.7974 | 74.58 | 1.4973 | 62.13 | 0.011 | 0.46 | 27.01 | 1120.75 | 2.41 | 100.00 |
| 13680 | 2.29 | 0.6700 | 29.26 | 1.9337 | 84.44 | 0.8157 | 35.62 | 0.016 | 0.70 | 29.45 | 1286.03 | 2.57 | 112.23 |
| 13681 | 2.42 | 0.7726 | 31.92 | 2.0453 | 84.52 | 0.9378 | 38.75 | 0.010 | 0.41 | 29.31 | 1211.16 | 2.69 | 111.16 |
| 13682 | 2.45 | 0.7609 | 31.06 | 2.0193 | 82.42 | 1.1773 | 48.05 | 0.012 | 0.49 | 29.50 | 1204.08 | 2.52 | 102.86 |
| 13683 | 2.19 | 0.7217 | 32.95 | 1.6827 | 76.84 | 1.2601 | 57.54 | 0.013 | 0.59 | 28.45 | 1299.09 | 2.44 | 111.42 |
| 13684 | 2.20 | 0.7096 | 32.25 | 1.7016 | 77.34 | 1.1324 | 51.47 | 0.009 | 0.41 | 22.94 | 1042.73 | 2.33 | 105.91 |
| 13685 | 2.12 | 0.6926 | 32.67 | 1.8110 | 85.42 | 1.1725 | 55.31 | 0.014 | 0.66 | 26.28 | 1239.62 | 2.65 | 125.00 |
| 13686 | 2.30 | 0.6045 | 26.28 | 1.7715 | 77.02 | 1.0562 | 45.92 | 0.017 | 0.74 | 28.94 | 1258.26 | 2.76 | 120.00 |
| 13687 | 2.34 | 0.7076 | 30.24 | 1.5732 | 67.23 | 1.0888 | 46.53 | 0.013 | 0.56 | 29.66 | 1267.52 | 2.45 | 104.70 |
| 13688 | 2.08 | 0.7951 | 38.22 | 2.0475 | 98.44 | 0.9953 | 47.85 | 0.014 | 0.67 | 25.96 | 1248.08 | 2.75 | 132.21 |
| 13689 | 2.27 | 0.6814 | 30.02 | 1.6739 | 73.74 | 1.2406 | 54.65 | 0.012 | 0.53 | 34.16 | 1504.84 | 2.88 | 126.87 |
| 13690 | 2.28 | 0.6736 | 29.54 | 1.7440 | 76.49 | 0.9884 | 43.35 | 0.016 | 0.70 | 33.85a | 1484.65 | 3.19 | 139.91 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 9): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | |
| 13661 | 2.24 | 2.45 | 109.38 | 0.038 | 1.70 | 0.044 | 1.96 | 1.01 | 45.09 | 0.34 | 15.18 |
| 13662 | 2.11 | 2.45 | 116.11 | 0.040 | 1.90 | 0.046 | 2.18 | 0.89 | 42.18 | 0.52 | 24.64 |
| 13663 | 2.32 | 2.34 | 100.86 | 0.031 | 1.34 | 0.034 | 1.46 | 0.82 | 35.34 | 0.45 | 19.40 |
| 13664 | 2.39 | 2.24 | 93.72 | 0.033 | 1.38 | 0.032 | 1.34 | 0.86 | 35.98 | 0.49 | 20.50 |
| 13665 | 2.40 | 2.50 | 104.17 | 0.042 | 1.75 | 0.044 | 1.83 | 0.74 | 30.83 | 0.39 | 16.25 |
| 13666 | 2.00 | 2.41 | 120.50 | 0.027 | 1.35 | 0.026 | 1.30 | 1.11 | 55.50 | 0.44 | 22.00 |
| 13667 | 2.23 | 2.48 | 111.21 | 0.026 | 1.16 | 0.021 | 0.94 | 0.90 | 40.36 | 0.50 | 22.42 |
| 13668 | 2.13 | 2.49 | 116.90 | 0.026 | 1.22 | 0.021 | 0.98 | 0.75 | 35.21 | 0.25 | 11.74 |
| 13669 | 2.34 | 2.50 | 106.84 | 0.029 | 1.24 | 0.021 | 0.90 | 0.90 | 38.46 | 0.42 | 17.95 |
| 13670 | 2.12 | 2.31a | 108.96 | 0.023 | 1.08 | 0.021 | 0.99 | 0.79 | 37.26 | 0.38 | 17.92 |
| 13671 | 2.36 | 2.20 | 93.22 | 0.034 | 1.44 | 0.030 | 1.27 | 0.84 | 35.59 | 0.24 | 10.17 |
| 13672 | 2.22 | 2.23b | 100.45 | 0.029 | 1.31 | 0.029 | 1.31 | 0.73 | 32.88 | 0.36 | 16.22 |
| 13673 | 2.07 | 2.60 | 125.60 | 0.021 | 1.01 | 0.022 | 1.06 | 0.91 | 43.96 | 0.45 | 21.74 |
| 13674 | 2.36 | 2.27 | 96.19 | 0.025 | 1.06 | 0.034 | 1.44 | 0.70 | 29.66 | 0.33 | 13.98 |
| 13675 | 2.22 | 2.56 | 115.32 | 0.025 | 1.13 | 0.028 | 1.26 | 0.88 | 39.64 | 0.53 | 23.87 |
| 13676 | 2.14 | 2.37 | 110.75 | 0.034 | 1.59 | 0.032 | 1.50 | 0.76 | 35.51 | 0.25 | 11.68 |
| 13677 | 2.31 | 2.55 | 110.39 | 0.035 | 1.52 | 0.027 | 1.17 | 0.65 | 28.14 | 0.33 | 14.28 |
| 13678 | 2.35 | 2.62 | 111.49 | 0.032 | 1.36 | 0.031 | 1.32 | 0.79 | 33.62 | 0.35 | 14.89 |
| 13679 | 2.41 | 2.67 | 110.79 | 0.042 | 1.74 | 0.034 | 1.41 | 0.77 | 31.95 | 0.50 | 20.75 |
| 13680 | 2.29 | 2.56 | 111.79 | 0.026 | 1.14 | 0.025 | 1.09 | 1.05 | 45.85 | 0.21 | 9.17 |
| 13681 | 2.42 | 2.66 | 109.92 | 0.027 | 1.12 | 0.029 | 1.20 | 0.97 | 40.08 | 0.30 | 12.40 |
| 13682 | 2.45 | 2.62 | 106.94 | 0.023 | 0.94 | 0.024 | 0.98 | 0.93 | 37.96 | 0.46 | 18.78 |
| 13683 | 2.19 | 2.33 | 106.39 | 0.025 | 1.14 | 0.045 | 2.05 | 0.82 | 37.44 | 0.53 | 24.20 |
| 13684 | 2.20 | 2.34 | 106.36 | 0.029 | 1.32 | 0.030 | 1.36 | 0.85 | 38.64 | 0.40 | 18.18 |
| 13685 | 2.12 | 2.58 | 121.70 | 0.021 | 0.99 | 0.019 | 0.90 | 0.82 | 38.68 | 0.24 | 11.32 |
| 13686 | 2.30 | 2.75 | 119.56 | 0.030 | 1.30 | 0.026 | 1.13 | 0.77 | 33.48 | 0.29 | 12.61 |
| 13687 | 2.34 | 2.43 | 103.85 | 0.029 | 1.24 | 0.025 | 1.07 | 0.91 | 38.89 | 0.27 | 11.54 |
| 13688 | 2.08 | 2.55 | 122.60 | 0.031 | 1.49 | 0.031 | 1.49 | 1.02 | 49.04 | 0.49 | 23.56 |
| 13689 | 2.27 | 2.82 | 124.23 | 0.029 | 1.28 | 0.022 | 0.97 | 1.07 | 47.14 | 0.39 | 17.18 |
| 13690 | 2.28 | 3.03 | 132.89 | 0.044 | 1.93 | 0.043 | 1.88 | 0.96 | 42.10 | 0.43 | 18.86 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13670 had moderate dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

b. Rat 13672 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

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TABLE B19 (PAGE 10): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13691 | 2.31 | 0.6510 | 28.18 | 0.2903 | 12.57 | 1.7748 | 76.83 | 1.6126 | 69.81 | 1.8099 | 78.35 | 1.1447 | 49.55 |
| 13692 | 2.35 | 0.7089 | 30.16 | 0.3304 | 14.06 | 1.8786 | 79.94 | 1.7780 | 75.66 | 2.3515 | 100.06 | 1.0306 | 43.86 |
| 13693 | 2.09 | 0.6386 | 30.56 | 0.2740 | 13.11 | 1.8515 | 88.59 | 1.7107 | 81.85 | 1.7267a | 82.62a | 1.0523 | 50.35 |
| 13694 | 2.11 | 0.7488 | 35.49 | 0.3793 | 17.98 | 1.6795 | 79.60 | 1.5725 | 74.53 | 2.4684 | 116.98 | 1.5301 | 72.52 |
| 13695 | 2.05 | 0.6307 | 30.76 | 0.2689 | 13.12 | 1.6411 | 80.05 | 1.5376 | 75.00 | 1.9912 | 97.13 | 1.2054 | 58.80 |
| 13696 | 2.25 | 0.6652 | 29.56 | 0.3142 | 13.96 | 1.9205 | 85.36 | 1.7789 | 79.06 | 2.0129 | 89.46 | 1.1453 | 50.90 |
| 13697 | 2.26 | 0.7278 | 32.20 | 0.3255 | 14.40 | 1.8740 | 82.92 | 1.7521 | 77.53 | 2.2800 | 100.88 | 1.2851 | 56.86 |
| 13698 | 2.35 | 0.7380 | 31.40 | 0.3381 | 14.39 | 2.0329 | 86.51 | 1.9220 | 81.79 | 2.6892 | 114.43 | 1.3437 | 57.18 |
| 13699 | 2.28 | 0.6450 | 28.29 | 0.2780 | 12.19 | 1.7274 | 75.76 | 1.5993 | 70.14 | 2.2776 | 99.89 | 1.2605 | 55.28 |
| 13700 | 2.46 | 0.7382 | 30.01 | 0.3455 | 14.04 | 1.8932 | 76.96 | 1.7207 | 69.95 | 2.4079 | 97.88 | 1.2589 | 51.17 |
| 13701 | 2.26 | 0.6860 | 30.35 | 0.2982 | 13.19 | 1.7259 | 76.37 | 1.5848 | 70.12 | 1.9875 | 87.94 | 1.0487 | 46.40 |
| 13702 | 2.05 | 0.7634 | 37.24 | 0.3364 | 16.41 | 1.8769 | 91.56 | 1.7673 | 86.21 | 2.3722 | 115.72 | 1.3402 | 65.38 |
| 13703 | 2.37 | 0.7196 | 30.36 | 0.3232 | 13.64 | 1.7387 | 73.36 | 1.6197 | 68.34 | 2.4935 | 105.21 | 1.5376 | 64.88 |
| 13704 | 2.38 | 0.7761 | 32.61 | 0.3537 | 14.86 | 1.8951 | 79.63 | 1.7609 | 73.99 | 2.3446 | 98.51 | 1.3177 | 55.36 |
| 13705 | 2.32 | 0.6684 | 28.81 | 0.2734 | 11.78 | 1.8277 | 78.78 | 1.6738 | 72.15 | 1.4559b | 62.75b | 1.0436 | 44.98 |
| 13706 | 2.45 | 0.7169 | 29.26 | 0.3511 | 14.33 | 1.8320 | 74.78 | 1.7076 | 69.70 | 2.3625 | 96.43 | 1.3581 | 55.43 |
| 13707 | 2.07 | 0.7793 | 37.65 | 0.3728 | 18.01 | 1.6347 | 78.97 | 1.5384 | 74.32 | 2.7172 | 131.26 | 1.4232 | 68.75 |
| 13708 | 2.13 | 0.7390 | 34.69 | 0.3343 | 15.69 | 1.8899 | 88.73 | 1.7878 | 83.93 | 2.6176 | 122.89 | 1.4343 | 67.34 |
| 13709 | 2.33 | 0.6284 | 26.97 | 0.2894 | 12.42 | 1.6529 | 70.94 | 1.5406 | 66.12 | 2.5577 | 109.77 | 1.4163 | 60.78 |
| 13710 | 2.21 | 0.6303 | 28.52 | 0.2903 | 13.14 | 1.8617 | 84.24 | 1.7607 | 79.67 | 2.1083 | 95.40 | 1.0055 | 45.50 |
| 13711 | 2.16 | 0.6687 | 30.96 | 0.3095 | 14.33 | 1.6931 | 78.38 | 1.5997 | 74.06 | 2.1691 | 100.42 | 1.1139 | 51.57 |
| 13712 | 2.34 | 0.6542 | 27.96 | 0.2903 | 12.40 | 1.8646 | 79.68 | 1.7482 | 74.71 | 2.0146 | 86.09 | 1.0707 | 45.76 |
| 13713 | 2.10 | 0.6660 | 31.71 | 0.3171 | 15.10 | 1.7775 | 84.64 | 1.6482 | 78.48 | 2.1117 | 100.56 | 1.1951 | 56.91 |
| 13714 | 2.17 | 0.7452 | 34.34 | 0.3291 | 15.16 | 1.8785 | 86.57 | 1.7562 | 80.93 | 2.7024 | 124.53 | 1.3951 | 64.29 |
| 13715 | 2.22 | 0.6832 | 30.77 | 0.2975 | 13.40 | 1.7745 | 79.93 | 1.6450 | 74.10 | 2.2975 | 103.49 | 1.1581 | 52.17 |
| 13716 | 2.25 | 0.7514 | 33.40 | 0.3387 | 15.05 | 2.0020 | 88.98 | 1.8087 | 80.39 | 2.3873 | 106.10 | 1.2017 | 53.41 |
| 13717 | 2.43 | 0.7523 | 30.96 | 0.3543 | 14.58 | 1.8418 | 75.79 | 1.7492 | 71.98 | 2.4171 | 99.47 | 1.3391 | 55.11 |
| 13718 | 2.18 | 0.7349 | 33.71 | 0.3363 | 15.43 | 1.8380 | 84.31 | 1.7356 | 79.61 | 2.3115 | 106.03 | 1.2358 | 56.69 |
| 13719 | 2.21 | 0.7209 | 32.62 | 0.3571 | 16.16 | 1.8179 | 82.26 | 1.6798 | 76.01 | 2.7956 | 126.50 | 1.5191 | 68.74 |
| 13720 | 2.15 | 0.7415 | 34.49 | 0.3476 | 16.17 | 1.8847 | 87.66 | 1.7681 | 82.24 | 2.9170 | 135.67 | 1.5807 | 73.52 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Damaged during processing (some fluid loss prior to weighing); values excluded from group averages and statistical analyses.

b. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 11): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13691 | 2.31 | 0.6462 | 27.97 | 1.6959 | 73.42 | 1.1002 | 47.63 | 0.009 | 0.39 | 30.43 | 1317.32 | 2.23 | 96.54 |
| 13692 | 2.35 | 0.6514 | 27.72 | 1.8472 | 78.60 | 0.6953 | 29.59 | 0.013 | 0.55 | 27.20 | 1157.45 | 2.42 | 102.98 |
| 13693 | 2.09 | 0.4308 | 20.61 | 1.5803 | 75.61 | 0.9426 | 45.10 | 0.014 | 0.67 | 30.49 | 1458.85 | 2.34 | 111.96 |
| 13694 | 2.11 | 0.7073 | 33.52 | 1.5982 | 75.74 | 0.8671 | 41.09 | 0.012 | 0.57 | 28.77 | 1363.51 | 2.75 | 130.33 |
| 13695 | 2.05 | 0.6242 | 30.45 | 1.5583 | 76.01 | 1.1675 | 56.95 | 0.016 | 0.78 | 30.35 | 1480.49 | 2.29 | 111.71 |
| 13696 | 2.25 | 0.6590 | 29.29 | 1.9059 | 84.71 | 1.1603 | 51.57 | 0.019 | 0.84 | 29.83 | 1325.78 | 2.99 | 132.89 |
| 13697 | 2.26 | 0.7200 | 31.86 | 1.8881 | 83.54 | 1.1685 | 51.70 | 0.013 | 0.58 | 28.85 | 1276.55 | 2.16 | 95.58 |
| 13698 | 2.35 | 0.7592 | 32.31 | 2.0050 | 85.32 | 1.2923 | 54.99 | 0.008 | 0.34 | 27.33 | 1162.98 | 2.61 | 111.06 |
| 13699 | 2.28 | 0.6287 | 27.57 | 1.6871 | 74.00 | 1.2763 | 55.98 | 0.015 | 0.66 | 19.75 | 866.23 | 2.11 | 92.54 |
| 13700 | 2.46 | 0.7246 | 29.46 | 1.9501 | 79.27 | 0.8127 | 33.04 | 0.014 | 0.57 | 31.22 | 1269.10 | 2.37 | 96.34 |
| 13701 | 2.26 | 0.6728 | 29.77 | 1.7611 | 77.92 | 0.9267 | 41.00 | 0.017 | 0.75 | 22.78 | 1007.96 | 2.03 | 89.82 |
| 13702 | 2.05 | 0.7257 | 35.40 | 1.8833 | 91.87 | 0.9056 | 44.18 | 0.012 | 0.58 | 23.84 | 1162.93 | 2.05 | 100.00 |
| 13703 | 2.37 | 0.7072 | 29.84 | 1.7711 | 74.73 | 1.2401 | 52.32 | 0.019 | 0.80 | 31.22 | 1317.30 | 2.52 | 106.33 |
| 13704 | 2.38 | 0.7933 | 33.33 | 1.9822 | 83.28 | 1.4428 | 60.62 | 0.020 | 0.84 | 36.32 | 1526.05 | 2.61 | 109.66 |
| 13705 | 2.32 | 0.6890 | 29.70 | 1.8191 | 78.41 | 1.0972 | 47.29 | 0.010 | 0.43 | 35.62 | 1535.34 | 2.45 | 105.60 |
| 13706 | 2.45 | 0.3207a | 13.09 | 0.8699a | 35.51 | 1.1747 | 47.95 | 0.011 | 0.45 | 29.09 | 1187.35 | 2.17 | 88.57 |
| 13707 | 2.07 | 0.7579 | 36.61 | 1.6624 | 80.31 | 1.2753 | 61.61 | 0.011 | 0.53 | 29.42 | 1421.26 | 2.50 | 120.77 |
| 13708 | 2.13 | 0.7502 | 35.22 | 1.9331 | 90.76 | 0.8310 | 39.01 | 0.015 | 0.70 | 32.27 | 1515.02 | 2.42 | 113.62 |
| 13709 | 2.33 | 0.6525 | 28.00 | 1.6711 | 71.72 | 1.0523 | 45.16 | 0.017 | 0.73 | 25.48 | 1093.56 | 2.19 | 93.99 |
| 13710 | 2.21 | 0.6630 | 30.00 | 1.8448 | 83.48 | 0.7736 | 35.00 | 0.019 | 0.86 | 24.32 | 1100.45 | 2.08 | 94.12 |
| 13711 | 2.16 | 0.6400 | 29.63 | 1.6398 | 75.92 | 0.9264 | 42.89 | 0.012 | 0.56 | 22.43 | 1038.43 | 1.87 | 86.57 |
| 13712 | 2.34 | 0.6336 | 27.08 | 1.8443 | 78.82 | 0.8620 | 36.84 | 0.011 | 0.47 | 24.75 | 1057.69 | 2.03 | 86.75 |
| 13713 | 2.10 | 0.6594 | 31.40 | 1.7083 | 81.35 | 1.1091 | 52.81 | 0.014 | 0.67 | 31.60 | 1504.76 | 2.18 | 103.81 |
| 13714 | 2.17 | 0.7495 | 34.54 | 1.8709 | 86.22 | 1.0910 | 50.28 | 0.011 | 0.51 | 26.03 | 1199.54 | 2.38 | 109.68 |
| 13715 | 2.22 | 0.6537 | 29.44 | 1.7351 | 78.16 | 1.2177 | 54.85 | 0.015 | 0.68 | 34.10 | 1536.04 | 2.39 | 107.66 |
| 13716 | 2.25 | 0.7396 | 32.87 | 2.0528 | 91.24 | 1.0765 | 47.84 | 0.013 | 0.58 | 28.78 | 1279.11 | 2.49 | 110.67 |
| 13717 | 2.43 | 0.7265 | 29.90 | 1.7853 | 73.47 | 1.0506 | 43.23 | 0.018 | 0.74 | 27.61 | 1136.21 | 2.37 | 97.53 |
| 13718 | 2.18 | 0.7409 | 33.99 | 1.8402 | 84.41 | 0.6135 | 28.14 | 0.018 | 0.82 | 28.62 | 1312.84 | 2.42 | 111.01 |
| 13719 | 2.21 | 0.7150 | 32.35 | 1.7551 | 79.42 | 0.7355 | 33.28 | 0.013 | 0.59 | 32.24 | 1458.82 | 2.31 | 104.52 |
| 13720 | 2.15 | 0.7717 | 35.89 | 1.8332 | 85.26 | 1.2191 | 56.70 | 0.009 | 0.42 | 31.49 | 1464.65 | 2.48 | 115.35 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13706 had a small and flaccid right epididymis and right testis. See the individual necropsy observations table (Table B16).

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TABLE B19 (PAGE 12): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | | SPLEEN | | THYMUS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| DOSAGE GROUP IV | | | 10 MG/KG/DAY | | | | | | | | |
| 13691 | 2.31 | 2.27 | 98.27 | 0.018 | 0.78 | 0.043 | 1.86 | 1.01 | 43.72 | 0.61 | 26.41 |
| 13692 | 2.35 | 2.31 | 98.30 | 0.026 | 1.11 | 0.029 | 1.23 | 0.83 | 35.32 | 0.55 | 23.40 |
| 13693 | 2.09 | 2.37 | 113.40 | 0.036 | 1.72 | 0.038 | 1.82 | 0.97 | 46.41 | 0.77 | 36.84 |
| 13694 | 2.11 | 3.01 | 142.65 | 0.025 | 1.18 | 0.037 | 1.75 | 0.81 | 38.39 | 0.50 | 23.70 |
| 13695 | 2.05 | 2.34 | 114.15 | 0.028 | 1.36 | 0.030 | 1.46 | 0.79 | 38.54 | 0.40 | 19.51 |
| 13696 | 2.25 | 2.82 | 125.33 | 0.035 | 1.56 | 0.033 | 1.47 | 1.04 | 46.22 | 0.54 | 24.00 |
| 13697 | 2.26 | 2.16 | 95.58 | 0.032 | 1.42 | 0.033 | 1.46 | 0.90 | 39.82 | 0.50 | 22.12 |
| 13698 | 2.35 | 2.63 | 111.91 | 0.034 | 1.45 | 0.040 | 1.70 | 0.82 | 34.89 | 0.52 | 22.13 |
| 13699 | 2.28 | 2.09 | 91.67 | 0.019 | 0.83 | 0.016 | 0.70 | 0.81 | 35.53 | 0.42 | 18.42 |
| 13700 | 2.46 | 2.40 | 97.56 | 0.030 | 1.22 | 0.030 | 1.22 | 0.99 | 40.24 | 0.44 | 17.89 |
| 13701 | 2.26 | 2.01 | 88.94 | 0.022 | 0.97 | 0.021 | 0.93 | 0.71 | 31.42 | 0.26 | 11.50 |
| 13702 | 2.05 | 2.10 | 102.44 | 0.028 | 1.36 | 0.024 | 1.17 | 0.84 | 40.98 | 0.27 | 13.17 |
| 13703 | 2.37 | 2.38 | 100.42 | 0.043 | 1.81 | 0.034 | 1.43 | 0.95 | 40.08 | 0.31 | 13.08 |
| 13704 | 2.38 | 2.64 | 110.92 | 0.036 | 1.51 | 0.030 | 1.26 | 1.15 | 48.32 | 0.56 | 23.53 |
| 13705 | 2.32 | 2.51 | 108.19 | 0.033 | 1.42 | 0.026 | 1.12 | 0.90 | 38.79 | 0.54 | 23.28 |
| 13706 | 2.45 | 2.46 | 100.41 | 0.031 | 1.26 | 0.026 | 1.06 | 0.79 | 32.24 | 0.38 | 15.51 |
| 13707 | 2.07 | 2.47 | 119.32 | 0.032 | 1.54 | 0.030 | 1.45 | 0.79 | 38.16 | 0.40 | 19.32 |
| 13708 | 2.13 | 2.57 | 120.66 | 0.038 | 1.78 | 0.038 | 1.78 | 0.76 | 35.68 | 0.34 | 15.96 |
| 13709 | 2.33 | 2.20 | 94.42 | 0.031 | 1.33 | 0.019 | 0.82 | 0.74 | 31.76 | 0.28 | 12.02 |
| 13710 | 2.21 | 2.17 | 98.19 | 0.029 | 1.31 | 0.025 | 1.13 | 0.66 | 29.86 | 0.40 | 18.10 |
| 13711 | 2.16 | 1.92 | 88.89 | 0.028 | 1.30 | 0.039 | 1.80 | 0.83 | 38.42 | 0.50 | 23.15 |
| 13712 | 2.34 | 2.04 | 87.18 | 0.030 | 1.28 | 0.033 | 1.41 | 1.11 | 47.44 | 0.36 | 15.38 |
| 13713 | 2.10 | 2.15 | 102.38 | 0.025 | 1.19 | 0.027 | 1.28 | 0.72 | 34.28 | 0.26 | 12.38 |
| 13714 | 2.17 | 2.13 | 98.16 | 0.026 | 1.20 | 0.051 | 2.35 | 0.52 | 23.96 | 0.18 | 8.29 |
| 13715 | 2.22 | 2.45 | 110.36 | 0.035 | 1.58 | 0.033 | 1.49 | 0.98 | 44.14 | 0.29 | 13.06 |
| 13716 | 2.25 | 2.60 | 115.56 | 0.028 | 1.24 | 0.026 | 1.16 | 0.79 | 35.11 | 0.24 | 10.67 |
| 13717 | 2.43 | 2.38a | 97.94 | 0.030 | 1.23 | 0.032 | 1.32 | 0.87 | 35.80 | 0.39 | 16.05 |
| 13718 | 2.18 | 2.33 | 106.88 | 0.037 | 1.70 | 0.033 | 1.51 | 0.93 | 42.66 | 0.25 | 11.47 |
| 13719 | 2.21 | 2.42 | 109.50 | 0.033 | 1.49 | 0.037 | 1.67 | 1.10 | 49.77 | 0.47 | 21.27 |
| 13720 | 2.15 | 2.56 | 119.07 | 0.022 | 1.02 | 0.026 | 1.21 | 1.03 | 47.91 | 0.23 | 10.70 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Rat 13717 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

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TABLE B19 (PAGE 13): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13721 | 2.32 | 0.6074 | 26.18 | 0.2790 | 12.02 | 1.6557 | 71.37 | 1.5270 | 65.82 | 2.1394 | 92.22 | 1.1271 | 48.58 |
| 13722 | 2.12 | 0.6274 | 29.59 | 0.2822 | 13.31 | 2.0342 | 95.95 | 1.9065 | 89.93 | 1.9349 | 91.27 | 0.9897 | 46.68 |
| 13723 | 2.18 | 0.6173 | 28.32 | 0.2866 | 13.15 | 1.7454 | 80.06 | 1.6102 | 73.86 | 1.8187 | 83.43 | 1.0162 | 46.61 |
| 13724 | 2.22 | 0.6288 | 28.32 | 0.2856 | 12.86 | 1.7350 | 78.15 | 1.6175 | 72.86 | 1.8648 | 84.00 | 1.0530 | 47.43 |
| 13725 | 2.05 | 0.5636 | 27.49 | 0.2434 | 11.87 | 1.5799 | 77.07 | 1.4784 | 72.12 | 2.0211 | 98.59 | 1.1224 | 54.75 |
| 13726 | 2.39 | 0.5924 | 24.79 | 0.2529 | 10.58 | 1.6603 | 69.47 | 1.4205 | 59.44 | 2.3913 | 100.05 | 1.3574 | 56.79 |
| 13727 | 2.09 | 0.6562 | 31.40 | 0.3344 | 16.00 | 1.6767 | 80.22 | 1.5666 | 74.96 | 2.3512 | 112.50 | 1.2199 | 58.37 |
| 13728 | 2.40 | 0.6189 | 25.79 | 0.2708 | 11.28 | 1.8145 | 75.60 | 1.6036 | 66.82 | 1.6491 | 68.71 | 0.8819 | 36.74 |
| 13729 | 2.26 | 0.6563 | 29.04 | 0.2832 | 12.53 | 1.8213 | 80.59 | 1.7046 | 75.42 | 2.7535 | 121.84 | 1.6355 | 72.37 |
| 13730 | 2.18 | 0.7344 | 33.69 | 0.3692 | 16.94 | 1.9206 | 88.10 | 1.7641 | 80.92 | 2.7822 | 127.62 | 1.3529 | 62.06 |
| 13731 | 2.10 | 0.6264 | 29.83 | 0.2816 | 13.41 | 1.8082 | 86.10 | 1.6879 | 80.38 | 2.2953 | 109.30 | 1.3058 | 62.18 |
| 13732a | 1.83 | 0.32 | ----- | b | ---- | 1.57 | ---- | b | ----- | 0.41 | ----- | b | ----- |
| 13733 | 2.41 | 0.4488c | 18.62 | 0.2281 | 9.46 | 1.5848 | 65.76 | 0.7696c | 31.93 | 1.9756 | 81.98 | 1.0945 | 45.41 |
| 13734 | 2.25 | 0.6218 | 27.64 | 0.3056 | 13.58 | 1.7707 | 78.70 | 1.6457 | 73.14 | 1.9533 | 86.81 | 1.0168 | 45.19 |
| 13735 | 2.22 | 0.6602 | 29.74 | 0.2885 | 13.00 | 1.6260 | 73.24 | 1.4871 | 66.99 | 2.0416 | 91.96 | 1.0459 | 47.11 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13732 was moribund sacrificed on day 45 of study; values excluded from group averages and statistical analyses.
b. Value was not recorded.
c. Rat 13733 had a small and flaccid left epididymis and left testis minus tunica albuginea. See the individual necropsy observations table (Table B16).

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TABLE B19 (PAGE 14): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13736 | 1.95 | 0.6673 | 34.22 | 0.3010 | 15.44 | 1.8057 | 92.60 | 1.6957 | 86.96 | 2.2496 | 115.36 | 1.2149 | 62.30 |
| 13737 | 2.09 | 0.6265 | 29.98 | 0.2859 | 13.68 | 1.8269 | 87.41 | 1.7194 | 82.27 | 1.7412 | 83.31 | 1.1388 | 54.49 |
| 13738 | 2.25 | 0.7368 | 32.75 | 0.3496 | 15.54 | 1.8806 | 83.58 | 1.7560 | 78.04 | 2.2771 | 101.20 | 1.1760 | 52.27 |
| 13739 | 2.16 | 0.6346 | 29.38 | 0.2936 | 13.59 | 1.7360 | 80.37 | 1.6485 | 76.32 | 2.1199 | 98.14 | 1.1596 | 53.68 |
| 13740 | 2.47 | 0.6890 | 27.89 | 0.3195 | 12.94 | 1.8928 | 76.63 | 1.7714 | 71.72 | 1.9407 | 78.57 | 1.0294 | 41.68 |
| 13741 | 2.18 | 0.4128a | 18.94 | 0.1813a | 8.32 | 0.9095a | 41.72 | 0.7763a | 35.61 | 1.5799 | 72.47 | 1.0094 | 46.30 |
| 13742 | 2.06 | 0.6057 | 29.40 | 0.2949 | 14.32 | 1.5689 | 76.16 | 1.4689 | 71.30 | 2.0911 | 101.51 | 1.1513 | 55.89 |
| 13743 | 2.27 | 0.6398 | 28.18 | 0.3157 | 13.91 | 1.7613 | 77.59 | 1.6391 | 72.21 | 2.2751 | 100.22 | 1.1189 | 49.29 |
| 13744 | 2.25 | 0.6318 | 28.08 | 0.2745 | 12.20 | 1.7873 | 79.44 | 1.6903 | 75.12 | 2.1831 | 97.03 | 1.2490 | 55.51 |
| 13745 | 2.32 | 0.5971 | 25.74 | 0.2785 | 12.00 | 1.7386 | 74.94 | 1.6364 | 70.53 | 1.6923 | 72.94 | 0.9536 | 41.10 |
| 13746 | 2.20 | 0.6928 | 31.49 | 0.2873 | 13.06 | 1.7150 | 77.95 | 1.6329 | 74.22 | 2.0396 | 92.71 | 1.1029 | 50.13 |
| 13747 | 1.88 | 0.6158 | 32.76 | 0.2828 | 15.04 | 1.9071 | 101.44 | 1.7986 | 95.67 | 1.8077 | 96.15 | 0.8948 | 47.60 |
| 13748 | 2.28 | 0.7390 | 32.41 | 0.3243 | 14.22 | 2.0476 | 89.81 | 1.9007 | 83.36 | 2.1969 | 96.36 | 1.2020 | 52.72 |
| 13749 | 2.27 | 0.7383 | 32.52 | 0.3499 | 15.41 | 1.9514 | 85.96 | 1.8267 | 80.47 | 2.0347 | 89.63 | 1.1848 | 52.19 |
| 13750 | 2.04 | 0.6466 | 31.70 | 0.2750 | 13.48 | 2.8842b | 141.38 | 2.6964b | 132.18 | 1.6893 | 82.81 | 1.0501 | 51.48 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13741 had small and flaccid epididymides and testes. See the individual necropsy observations table (Table B16).

b. Rat 13750 had a large left epididymis and left testis minus tunica albuginea. See the individual necropsy observations table (Table B16).

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TABLE B19 (PAGE 15): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13721 | 2.32 | 0.5828 | 25.12 | 1.6442 | 70.87 | 0.8431 | 36.34 | 0.015 | 0.65 | 32.46 | 1399.14 | 2.04 | 87.93 |
| 13722 | 2.12 | 0.6248 | 29.47 | 2.0050 | 94.58 | 0.8430 | 39.76 | 0.013 | 0.61 | 26.38 | 1244.34 | 1.97 | 92.92 |
| 13723 | 2.18 | 0.6269 | 28.76 | 1.6768 | 76.92 | 0.5950 | 27.29 | 0.010 | 0.46 | 25.29 | 1160.09 | 1.96 | 89.91 |
| 13724 | 2.22 | 0.6778 | 30.53 | 1.7229 | 77.61 | 0.6971 | 31.40 | 0.009 | 0.40 | 20.55 | 925.68 | 2.05 | 92.34 |
| 13725 | 2.05 | 0.6145 | 29.98 | 1.6811 | 82.00 | 0.7775 | 37.93 | 0.005 | 0.24 | 24.05 | 1173.17 | 1.65 | 80.49 |
| 13726 | 2.39 | 0.5830 | 24.39 | 1.6140 | 67.53 | 1.1966 | 50.07 | 0.011 | 0.46 | 26.25 | 1098.33 | 2.21 | 92.47 |
| 13727 | 2.09 | 0.6714 | 32.12 | 1.6811 | 80.44 | 1.1502 | 55.03 | 0.009 | 0.43 | 27.77 | 1328.71 | 2.08 | 99.52 |
| 13728 | 2.40 | 0.5943 | 24.76 | 1.7995 | 74.98 | 0.8251 | 34.38 | 0.011 | 0.46 | 33.99 | 1416.25 | 1.89 | 78.75 |
| 13729 | 2.26 | 0.6131 | 27.13 | 1.7874 | 79.09 | 0.8078 | 35.74 | 0.008 | 0.35 | 30.46 | 1347.79 | 2.13 | 94.25 |
| 13730 | 2.18 | 0.7137 | 32.74 | 1.9707 | 90.40 | 0.8931 | 40.97 | 0.011 | 0.50 | 36.40 | 1669.72 | 2.44 | 111.93 |
| 13731 | 2.10 | 0.6397 | 30.46 | 1.7492 | 83.30 | 0.6744 | 32.11 | 0.011 | 0.52 | 27.84 | 1325.71 | 2.02 | 96.19 |
| 13732a | 1.83 | 0.31 | ----- | 1.54 | ---- | 0.34 | ---- | 0.006 | ----- | 15.94 | ------- | 1.22 | ----- |
| 13733 | 2.41 | 0.7056 | 29.28 | 1.8567 | 77.04 | 0.9479 | 39.33 | 0.012 | 0.50 | 34.60 | 1435.68 | 2.19 | 90.87 |
| 13734 | 2.25 | 0.6340 | 28.18 | 1.7743 | 78.86 | 1.2570 | 55.87 | 0.007 | 0.31 | 28.30 | 1257.78 | 2.22 | 98.67 |
| 13735 | 2.22 | 0.6247 | 28.14 | 1.6311 | 73.47 | 0.9716 | 43.76 | 0.007 | 0.32 | 26.33 | 1186.04 | 2.06 | 92.79 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Rat 13732 was moribund sacrificed on day 45 of study; values excluded from group averages and statistical analyses.



ARGUS 418-020

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 16): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13736 | 1.95 | 0.6535 | 33.51 | 1.7745 | 91.00 | 1.1293 | 57.91 | 0.010 | 0.51 | 26.04 | 1335.38 | 1.85 | 94.87 |
| 13737 | 2.09 | 0.6117 | 29.27 | 1.7991 | 86.08 | 0.6582 | 31.49 | 0.009 | 0.43 | 25.32 | 1211.48 | 1.73 | 82.78 |
| 13738 | 2.25 | 0.7239 | 32.17 | 1.9556 | 86.92 | 0.9491 | 42.18 | 0.012 | 0.53 | 27.00 | 1200.00 | 1.98 | 88.00 |
| 13739 | 2.16 | 0.6380 | 29.54 | 1.7722 | 82.05 | 0.6872 | 31.81 | 0.015 | 0.69 | 23.10 | 1069.44 | 1.95 | 90.28 |
| 13740 | 2.47 | 0.6731 | 27.25 | 1.8953 | 76.73 | 1.0956 | 44.36 | 0.010 | 0.40 | 29.12 | 1178.95 | 1.98 | 80.16 |
| 13741 | 2.18 | 0.3794a | 17.40 | 0.8606a | 39.48 | 0.5990 | 27.48 | 0.007 | 0.32 | 27.33 | 1253.67 | 1.82 | 83.49 |
| 13742 | 2.06 | 0.6017 | 29.21 | 1.5535 | 75.41 | 0.7266 | 35.27 | 0.007 | 0.34 | 25.57 | 1241.26 | 1.60 | 77.67 |
| 13743 | 2.27 | 0.6511 | 28.68 | 1.7824 | 78.52 | 0.8984 | 39.58 | 0.008 | 0.35 | 23.40 | 1030.84 | 1.87 | 82.38 |
| 13744 | 2.25 | 0.6378 | 28.35 | 1.8145 | 80.64 | 0.7553 | 33.57 | 0.012 | 0.53 | 24.04 | 1068.44 | 1.80 | 80.00 |
| 13745 | 2.32 | 0.5834 | 25.15 | 1.7338 | 74.73 | 0.8432 | 36.34 | 0.009 | 0.39 | 29.53 | 1272.84 | 1.92 | 82.76 |
| 13746 | 2.20 | 0.6752 | 30.69 | 1.6953 | 77.06 | 0.8258 | 37.54 | 0.015 | 0.68 | 28.24 | 1283.64 | 2.27 | 103.18 |
| 13747 | 1.88 | 0.6142 | 32.67 | 1.8456 | 98.17 | 0.5597 | 29.77 | 0.016 | 0.85 | 23.29 | 1238.83 | 1.89 | 100.53 |
| 13748 | 2.28 | 0.7365 | 32.30 | 2.0122 | 88.25 | 1.0400 | 45.61 | 0.013 | 0.57 | 31.63 | 1387.28 | 2.20 | 96.49 |
| 13749 | 2.27 | 0.7260 | 31.98 | 1.8831 | 82.96 | 0.8505 | 37.47 | 0.011 | 0.48 | 27.03 | 1190.75 | 1.79 | 78.85 |
| 13750 | 2.04 | 0.6502 | 31.87 | 1.7065 | 83.65 | 0.8981 | 44.02 | 0.013 | 0.64 | 25.92 | 1270.59 | 2.07 | 101.47 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13741 had small and flaccid epididymides and testes. See the individual necropsy observations table (Table B16).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 17): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | |
| 13721 | 2.32 | 2.19 | 94.40 | 0.035 | 1.51 | 0.040 | 1.72 | 0.76 | 32.76 | 0.36 | 15.52 |
| 13722 | 2.12 | 2.19 | 103.30 | 0.035 | 1.65 | 0.035 | 1.65 | 0.80 | 37.74 | 0.49 | 23.11 |
| 13723 | 2.18 | 1.94 | 88.99 | 0.033 | 1.51 | 0.028 | 1.28 | 0.72 | 33.03 | 0.37 | 16.97 |
| 13724 | 2.22 | 2.01 | 90.54 | 0.042 | 1.89 | 0.037 | 1.67 | 0.79 | 35.58 | 0.49 | 22.07 |
| 13725 | 2.05 | 1.73 | 84.39 | 0.028 | 1.36 | 0.026 | 1.27 | 0.45 | 21.95 | 0.20 | 9.76 |
| 13726 | 2.39 | 2.20 | 92.05 | 0.029 | 1.21 | 0.039 | 1.63 | 0.93 | 38.91 | 0.51 | 21.34 |
| 13727 | 2.09 | 2.16 | 103.35 | 0.026 | 1.24 | 0.024 | 1.15 | 0.75 | 35.88 | 0.28 | 13.40 |
| 13728 | 2.40 | 1.94 | 80.83 | 0.028 | 1.17 | 0.025 | 1.04 | 0.67 | 27.92 | 0.25 | 10.42 |
| 13729 | 2.26 | 2.05a | 90.71 | 0.020 | 0.88 | 0.014 | 0.62 | 0.52 | 23.01 | 0.25 | 11.06 |
| 13730 | 2.18 | 2.45 | 112.38 | 0.035 | 1.60 | 0.031 | 1.42 | 0.70 | 32.11 | 0.38 | 17.43 |
| 13731 | 2.10 | 2.05 | 97.62 | 0.028 | 1.33 | 0.026 | 1.24 | 0.57 | 27.14 | 0.18 | 8.57 |
| 13732b | 1.83 | 1.25 | ----- | 0.026 | ---- | 0.026 | ---- | 0.13 | ----- | 0.12 | ---- |
| 13733 | 2.41 | 2.31c | 95.85 | 0.032 | 1.33 | 0.035 | 1.45 | 0.94 | 39.00 | 0.28 | 11.62 |
| 13734 | 2.25 | 2.30 | 102.22 | 0.022 | 0.98 | 0.023 | 1.02 | 0.69 | 30.67 | 0.32 | 14.22 |
| 13735 | 2.22 | 2.23 | 100.45 | 0.030 | 1.35 | 0.014 | 0.63 | 0.97 | 43.69 | 0.40 | 18.02 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13729 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

b. Rat 13732 was moribund sacrificed on day 45 of study; values excluded from group averages and statistical analyses.

c. Rat 13733 had slight dilation of the pelvis of the right kidney. See the individual necropsy observations table (Table B16).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B19 (PAGE 18): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | | SPLEEN | | THYMUS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | |
| 13736 | 1.95 | 1.99 | 102.05 | 0.030 | 1.54 | 0.023 | 1.18 | 0.72 | 36.92 | 0.28 | 14.36 |
| 13737 | 2.09 | 1.79 | 85.64 | 0.021 | 1.00 | 0.017 | 0.81 | 0.65 | 31.10 | 0.20 | 9.57 |
| 13738 | 2.25 | 1.95 | 86.67 | 0.037 | 1.64 | 0.032 | 1.42 | 0.73 | 32.44 | 0.32 | 14.22 |
| 13739 | 2.16 | 2.01 | 93.06 | 0.026 | 1.20 | 0.025 | 1.16 | 0.69 | 31.94 | 0.25 | 11.57 |
| 13740 | 2.47 | 2.15 | 87.04 | 0.024 | 0.97 | 0.027 | 1.09 | 0.80 | 32.39 | 0.27 | 10.93 |
| 13741 | 2.18 | 2.02 | 92.66 | 0.009 | 0.41 | 0.014 | 0.64 | 0.42 | 19.27 | 0.20 | 9.17 |
| 13742 | 2.06 | 1.64 | 79.61 | 0.027 | 1.31 | 0.029 | 1.41 | 0.86 | 41.75 | 0.17 | 8.25 |
| 13743 | 2.27 | 1.93 | 85.02 | 0.020 | 0.88 | 0.026 | 1.14 | 0.62 | 27.31 | 0.20 | 8.81 |
| 13744 | 2.25 | 1.94 | 86.22 | 0.029 | 1.29 | 0.028 | 1.24 | 0.58 | 25.78 | 0.29 | 12.89 |
| 13745 | 2.32 | 2.07 | 89.22 | 0.026 | 1.12 | 0.026 | 1.12 | 0.73 | 31.46 | 0.28 | 12.07 |
| 13746 | 2.20 | 2.20 | 100.00 | 0.028 | 1.27 | 0.025 | 1.14 | 0.74 | 33.64 | 0.35 | 15.91 |
| 13747 | 1.88 | 1.93 | 102.66 | 0.031 | 1.65 | 0.020 | 1.06 | 0.51 | 27.13 | 0.27 | 14.36 |
| 13748 | 2.28 | 2.43 | 106.58 | 0.032 | 1.40 | 0.030 | 1.32 | 1.09 | 47.81 | 0.38 | 16.67 |
| 13749 | 2.27 | 1.78 | 78.41 | 0.029 | 1.28 | 0.028 | 1.23 | 0.87 | 38.32 | 0.29 | 12.78 |
| 13750 | 2.04 | 2.04 | 100.00 | 0.021 | 1.03 | 0.020 | 0.98 | 1.06 | 51.96 | 0.27 | 13.24 |

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

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TABLE B20 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP I | | | | 0 MG/KG/DAY | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 13601 | 267 | 92 | 22 | 289 | 79 | 770.5 | 38 | 85.1 |
| 13602 | 189 | 87 | 29 | 218 | 111 | 1040.5 | 36 | 68.4 |
| 13603 | 392 | 86 | 64 | 456 | 89 | 770.6 | 45 | 78.4 |
| 13604 | 408 | 92 | 37 | 445 | 77 | 710.3 | 33 | 56.1 |
| 13605 | 400 | 85 | 72 | 472 | 118 | 963.4 | 66 | 111.8 |
| 13606 | 502 | 84 | 93 | 595 | 136 | 1089.5 | 36 | 59.2 |
| 13607 | 380 | 92 | 34 | 414 | 128 | 1156.0 | 75 | 124.4 |
| 13608 | 359 | 88 | 50 | 409 | 143 | 1198.0 | 68 | 113.3 |
| 13609 | 123 | 34 | 240 | 363 | 38 | 512.5 | 27 | 54.2 |
| 13610 | 409 | 88 | 58 | 467 | 132 | 1324.4 | 59 | 115.0 |
| 13611 | 247 | 76 | 76 | 323 | 91 | 804.8 | 91 | 158.4 |
| 13612 | 458 | 89 | 54 | 512 | 120 | 1202.4 | 56 | 99.5 |
| 13613 | 360 | 88 | 50 | 410 | 95 | 913.0 | 67 | 120.3 |
| 13614 | 428 | 79 | 112 | 540 | 60 | 635.1 | 52 | 101.7 |
| 13615 | 375 | 89 | 47 | 422 | 145 | 1148.5 | 67 | 105.8 |
| 13616 | 269 | 80 | 68 | 337 | 129 | 1046.1 | 71 | 112.6 |
| 13617 | 548 | 81 | 127 | 675 | 117 | 972.8 | 47 | 82.4 |
| 13618 | 229 | 85 | 42 | 271 | 117 | 978.7 | 38 | 63.6 |
| 13619 | 155 | 63 | 91 | 246 | 89 | 648.0 | 50 | 78.4 |
| 13620 | 372 | 77 | 113 | 485 | 95 | 794.5 | 53 | 89.9 |
| 13621 | 413 | 87 | 60 | 473 | 146 | 1284.9 | 29 | 161.0 |
| 13622 | 286 | 88 | 40 | 326 | 147 | 1345.2 | 82 | 141.2 |
| 13623 | 267 | 83 | 53 | 320 | 137 | 1017.2 | 50 | 91.6 |
| 13624 | 398 | 89 | 47 | 445 | 205 | 1764.4 | 45 | 77.1 |
| 13625 | 392 | 91 | 38 | 430 | 83 | 800.6 | 56 | 96.8 |
| 13626 | 454 | 85 | 83 | 537 | 63 | 481.4 | 37 | 58.4 |
| 13627 | 355 | 85 | 61 | 416 | 83 | 752.2 | 44 | 81.7 |
| 13628 | 373 | 84 | 73 | 446 | 133 | 1023.2 | 37 | 59.9 |
| 13629 | 394 | 75 | 131 | 525 | 125 | 1093.4 | 37 | 69.0 |
| 13630 | 417 | 76 | 133 | 550 | 88 | 637.5 | 30 | 44.4 |

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TABLE B20 (PAGE 2): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP II | | | 1 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 13631 | 530 | 87 | 82 | 612 | 101 | 974.5 | 40 | 74.9 |
| 13632 | 274 | 84 | 51 | 325 | 101 | 922.8 | 45 | 71.2 |
| 13633 | 403 | 89 | 49 | 452 | 69 | 562.9 | 44 | 77.3 |
| 13634 | 264 | 83 | 56 | 320 | 103 | 884.4 | 56 | 97.7 |
| 13635 | 178 | 70 | 77 | 255 | 98 | 1007.8 | 49 | 91.5 |
| 13636 | 440 | 82 | 96 | 536 | 93 | 763.2 | 42 | 72.7 |
| 13637 | 554 | 88 | 75 | 629 | 98 | 825.5 | 42 | 79.7 |
| 13638 | 350 | 78 | 101 | 451 | 54 | 559.5 | 39 | 62.3 |
| 13639 | 244 | 92 | 21 | 265 | 147 | 1441.0 | 51 | 113.5 |
| 13640 | 198 | 85 | 35 | 233 | 130 | 1063.5 | 56 | 91.7 |
| 13641 | 541 | 86 | 89 | 630 | 104 | 853.0 | 47 | 78.9 |
| 13642 | 407 | 84 | 78 | 485 | 114 | 1046.9 | 40 | 71.3 |
| 13643 | 302 | 93 | 22 | 324 | 138 | 1174.8 | 49 | 77.2 |
| 13644 | 177 | 80 | 45 | 222 | 112 | 1012.4 | 49 | 77.9 |
| 13645 | 272 | 84 | 52 | 324 | 130 | 1181.4 | 32 | 61.5 |
| 13646 | 225 | 69 | 101 | 326 | 199 | 1662.3 | 31 | 56.8 |
| 13647 | 328 | 67 | 159 | 487 | 104 | 1008.9 | 68 | 120.5 |
| 13648 | 430 | 80 | 110 | 540 | 135 | 1274.5 | 48 | 80.9 |
| 13649 | 410 | 79 | 109 | 519 | 132 | 1248.7 | 28 | 49.8 |
| 13650 | 305 | 84 | 56 | 361 | 78 | 784.5 | 65 | 102.4 |
| 13651 | 300 | 92 | 27 | 327 | 180 | 1586.5 | 59 | 93.1 |
| 13652 | 205 | 95 | 10 | 215 | 212 | 1898.0 | 50 | 85.5 |
| 13653 | 370 | 89 | 48 | 418 | 117 | 1215.7 | 62 | 105.5 |
| 13654 | 227 | 88 | 31 | 258 | 99 | 975.7 | 60 | 123.6 |
| 13655 | 562 | 89 | 66 | 628 | 162 | 1405.2 | 72 | 105.0 |
| 13656 | 470 | 93 | 37 | 507 | 170 | 1418.0 | 41 | 73.9 |
| 13657 | 417 | 91 | 43 | 460 | 110 | 1041.6 | 40 | 70.0 |
| 13658 | 490 | 84 | 95 | 585 | 72 | 789.8 | 24 | 47.5 |
| 13659 | 280 | 88 | 39 | 319 | 152 | 1386.2 | 30 | 48.1 |
| 13660 | 243 | 89 | 31 | 274 | 71 | 636.8 | 18 | 33.0 |

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TABLE B20 (PAGE 3): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP III | | | 3 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 13661 | 261 | 94 | 17 | 278 | 87 | 773.4 | 40 | 66.3 |
| 13662 | 387 | 87 | 59 | 446 | 132 | 1176.0 | 48 | 85.8 |
| 13663 | 258 | 87 | 40 | 298 | 118 | 926.5 | 48 | 78.9 |
| 13664 | 288 | 63 | 172 | 460 | 95 | 845.6 | 49 | 83.0 |
| 13665 | 424 | 82 | 94 | 518 | 86 | 826.5 | 53 | 96.4 |
| 13666 | 392 | 89 | 46 | 438 | 77 | 762.0 | 43 | 72.0 |
| 13667 | 508 | 93 | 37 | 545 | 78 | 684.4 | 39 | 74.7 |
| 13668 | 423 | 92 | 37 | 460 | 72 | 853.6 | 56 | 108.1 |
| 13669 | 424 | 86 | 70 | 494 | 117 | 1053.4 | 63 | 114.0 |
| 13670 | 298 | 91 | 31 | 329 | 173 | 1368.4 | 98 | 161.3 |
| 13671 | 503 | 92 | 43 | 546 | 85 | 842.9 | 50 | 88.2 |
| 13672 | 270 | 83 | 54 | 324 | 64 | 671.0 | 29 | 51.0 |
| 13673 | 451 | 90 | 48 | 499 | 90 | 944.6 | 47 | 87.6 |
| 13674 | 549 | 83 | 112 | 661 | 87 | 885.8 | 64 | 119.9 |
| 13675 | 512 | 90 | 56 | 568 | 131 | 1132.9 | 32 | 62.7 |
| 13676 | 523 | 92 | 47 | 570 | 121 | 1076.0 | 59 | 93.3 |
| 13677 | 376 | 93 | 27 | 403 | 139 | 1319.2 | 46 | 83.6 |
| 13678 | 358 | 79 | 94 | 452 | 76 | 704.9 | 39 | 71.2 |
| 13679 | 293 | 90 | 33 | 326 | 134 | 1177.5 | 27 | 47.3 |
| 13680 | 269 | 88 | 36 | 305 | 107 | 971.5 | 43 | 70.2 |
| 13681 | 235 | 73 | 85 | 320 | 79 | 678.9 | 80 | 119.8 |
| 13682 | 391 | 87 | 60 | 451 | 183 | 1520.7 | 50 | 75.1 |
| 13683 | 453 | 91 | 44 | 497 | 214 | 2099.2 | 54 | 100.5 |
| 13684 | 549 | 87 | 84 | 633 | 105 | 1033.8 | 42 | 77.0 |
| 13685 | 221 | 94 | 13 | 234 | 180 | 1641.5 | 43 | 73.4 |
| 13686 | 411 | 88 | 57 | 468 | 82 | 825.3 | 57 | 98.5 |
| 13687 | 357 | 81 | 83 | 440 | 107 | 969.1 | 34 | 66.1 |
| 13688 | 245 | 82 | 54 | 299 | 100 | 803.3 | 37 | 56.0 |
| 13689 | 252 | 85 | 45 | 297 | 138 | 1195.2 | 26 | 47.1 |
| 13690 | 317 | 93 | 24 | 341 | 78 | 740.3 | 24 | 42.3 |

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TABLE B20 (PAGE 4): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP IV | | | | 10 MG/KG/DAY | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 13691 | 353 | 85 | 61 | 414 | 103 | 1026.3 | 26 | 46.6 |
| 13692 | 328 | 86 | 55 | 383 | 101 | 884.3 | 40 | 65.1 |
| 13693 | 368 | 89 | 45 | 413 | 78 | 823.5 | 63 | 106.5 |
| 13694 | 202 | 83 | 40 | 242 | 157 | 1197.4 | 46 | 84.6 |
| 13695 | 517 | 82 | 116 | 633 | 94 | 1011.2 | 30 | 56.4 |
| 13696 | 305 | 83 | 64 | 369 | 72 | 662.9 | 33 | 53.7 |
| 13697 | 248 | 86 | 40 | 288 | 109 | 968.7 | 62 | 102.4 |
| 13698 | 467 | 88 | 61 | 528 | 136 | 1163.6 | 59 | 88.8 |
| 13699 | 283 | 91 | 29 | 312 | 106 | 1103.0 | 48 | 86.8 |
| 13700 | 334 | 89 | 40 | 374 | 100 | 837.3 | 70 | 117.7 |
| 13701 | 237 | 81 | 54 | 291 | 86 | 834.2 | 36 | 65.7 |
| 13702 | 355 | 93 | 27 | 382 | 121 | 1040.5 | 51 | 83.5 |
| 13703 | 385 | 86 | 65 | 450 | 129 | 1154.6 | 55 | 98.2 |
| 13704 | 305 | 88 | 40 | 345 | 278 | 2273.6 | 42 | 69.0 |
| 13705 | 456 | 90 | 51 | 507 | 92 | 973.4 | 46 | 79.5 |
| 13706 | 241 | 85 | 44 | 285 | 89 | 733.3 | 71 | 120.3 |
| 13707 | 401 | 93 | 30 | 431 | 162 | 1257.0 | 59 | 110.9 |
| 13708 | 334 | 92 | 30 | 364 | 152 | 1315.3 | 52 | 84.1 |
| 13709 | 251 | 85 | 43 | 294 | 69 | 689.7 | 51 | 95.8 |
| 13710 | 535 | 87 | 82 | 617 | 86 | 857.0 | 69 | 113.4 |
| 13711 | 294 | 94 | 20 | 314 | 143 | 1336.5 | 43 | 77.8 |
| 13712 | 396 | 93 | 32 | 428 | 84 | 837.0 | 55 | 91.0 |
| 13713 | 302 | 89 | 39 | 341 | 139 | 1268.0 | 58 | 101.8 |
| 13714 | 247 | 80 | 63 | 310 | 121 | 1063.6 | 38 | 62.6 |
| 13715 | 447 | 86 | 74 | 521 | 72 | 700.1 | 30 | 52.8 |
| 13716 | 273 | 87 | 41 | 314 | 128 | 1093.2 | 59 | 94.4 |
| 13717 | 210 | 83 | 43 | 253 | 160 | 1306.3 | 29 | 48.0 |
| 13718 | 412 | 87 | 63 | 475 | 81 | 696.7 | 19 | 31.7 |
| 13719 | 397 | 96 | 15 | 412 | 179 | 1450.0 | 26 | 44.8 |
| 13720 | 264 | 86 | 44 | 308 | 105 | 873.8 | 25 | 40.9 |

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TABLE B20 (PAGE 5): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP V | | | 30 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 13721 | 498 | 92 | 44 | 542 | 82 | 850.2 | 40 | 75.8 |
| 13722 | 375 | 82 | 81 | 456 | 87 | 891.8 | 44 | 66.8 |
| 13723 | 386 | 84 | 71 | 457 | 64 | 646.0 | 39 | 70.1 |
| 13724 | 208 | 75 | 68 | 276 | 105 | 1063.5 | 48 | 85.8 |
| 13725 | 457 | 81 | 105 | 562 | 57 | 677.4 | 41 | 80.2 |
| 13726 | 368 | 77 | 107 | 475 | 80 | 915.1 | 36 | 73.3 |
| 13727 | 243 | 89 | 29 | 272 | 134 | 1159.2 | 82 | 151.4 |
| 13728 | 420 | 88 | 59 | 479 | 70 | 747.7 | 43 | 77.6 |
| 13729 | 188 | 80 | 46 | 234 | 107 | 1092.9 | 49 | 83.2 |
| 13730 | 345 | 90 | 37 | 382 | 157 | 1230.1 | 51 | 83.6 |
| 13731 | 477 | 86 | 78 | 555 | 118 | 1212.1 | 52 | 89.1 |
| 13732 | MORIBUND SACRIFICED ON DAY 45 OF STUDY | | | | | | | |
| 13733 | 106 | 90 | 12 | 118 | 1 | 12.7 | 2 | 7.5 |
| 13734 | 321 | 90 | 34 | 355 | 115 | 1088.6 | 74 | 130.1 |
| 13735 | 320 | 81 | 73 | 393 | 69 | 691.8 | 44 | 85.6 |
| 13736 | 710 | 92 | 60 | 770 | 85 | 816.9 | 66 | 112.6 |
| 13737 | 294 | 65 | 158 | 452 | 122 | 1234.4 | 52 | 87.5 |
| 13738 | 266 | 78 | 73 | 339 | 173 | 1431.5 | 55 | 90.6 |
| 13739 | 262 | 86 | 41 | 303 | 105 | 1034.5 | 38 | 66.7 |
| 13740 | 388 | 86 | 61 | 449 | 101 | 914.4 | 41 | 67.0 |
| 13741 | 108 | 58 | 79 | 187 | 13 | 207.4 | 3 | 11.2 |
| 13742 | 179 | 68 | 83 | 262 | 113 | 1108.4 | 42 | 82.7 |
| 13743 | 320 | 96 | 15 | 335 | 119 | 1090.4 | 41 | 72.4 |
| 13744 | 392 | 93 | 31 | 423 | 91 | 959.0 | 41 | 70.2 |
| 13745 | 440 | 89 | 53 | 493 | 130 | 1350.3 | 37 | 65.4 |
| 13746 | 273 | 90 | 31 | 304 | 102 | 1027.0 | 41 | 72.6 |
| 13747 | 228 | 82 | 49 | 277 | 77 | 787.6 | 39 | 62.7 |
| 13748 | 218 | 84 | 42 | 260 | 131 | 1168.5 | 39 | 59.4 |
| 13749 | 470 | 90 | 51 | 521 | 125 | 1033.4 | 34 | 53.8 |
| 13750 | 235 | 91 | 23 | 258 | 113 | 1188.6 | 23 | 24.7 |

PROTOCOL 418-020: ORAL (GAVAGE) TWO GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B20 (PAGE 6): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P GENERATION MALE RATS

FOOTNOTES:

a. Sum of number motile and static count. Groups of five fields were evaluated until a sperm count of at least 200 was achieved or 20 fields were evaluated.

b. Sperm count used in the calculation of sperm density. Ten fields were evaluated.

c. The sperm density was calculated by dividing the sperm count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table B17 for the weight of the left cauda epididymis) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

d. Spermatid count used in the calculation of spermatid density. Ten fields were evaluated.

e. The spermatid density was calculated by dividing the spermatid count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the spermatid concentration. The calculated spermatid concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left testis minus tunica albuginea (see Table B18 for the weight of the left testis minus tunica albuginea) to obtain the spermatid density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B21 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGEL-LUM | NO HOOK | EXCES-SIVE HOOK | COILED FLAGEL-LUM | BENT FLAGEL-LUM | SHORT SPERM HEAD | OTHER | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | | 0 MG/KG/DAY | | | | | | | | |
| 13601 | 193 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13602 | 199 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| 13603 | 192 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13604 | 189 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13605 | 189 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13606 | 190 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13607 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13608 | 194 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13609 | 60 | 64 | 75 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 70.0 |
| 13610 | 189 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13611 | 179 | 15 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10.5 |
| 13612 | 186 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.0 |
| 13613 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13614 | 187 | 6 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 |
| 13615 | 189 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13616 | 188 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 |
| 13617 | 193 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13618 | 181 | 10 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.5 |
| 13619 | 192 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13620 | 191 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13621 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13622 | 191 | 3 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13623 | 192 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13624 | 191 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13625 | 196 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13626 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13627 | 195 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13628 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13629 | 196 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13630 | 192 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B21 (PAGE 2): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGEL-LUM | NO HOOK | EXCES-SIVE HOOK | COILED FLAGEL-LUM | BENT FLAGEL-LUM | SHORT SPERM HEAD | OTHER | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | | 1 MG/KG/DAY | | | | | | | | |
| 13631 | 194 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13632 | 191 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13633 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13634 | 185 | 4 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 7.5 |
| 13635 | 188 | 7 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 |
| 13636 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13637 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13638 | 160 | 20 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 20.0 |
| 13639 | 196 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13640 | 187 | 6 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 |
| 13641 | 195 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13642 | 196 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13643 | 197 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13644 | 194 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13645 | 197 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13646 | 195 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13647 | 197 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13648 | 186 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.0 |
| 13649 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13650 | 192 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13651 | 190 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13652 | 191 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13653 | 185 | 10 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 7.5 |
| 13654 | 191 | 4 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13655 | 196 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13656 | 196 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13657 | 193 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13658 | 191 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13659 | 189 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13660 | 191 | 5 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4.5 |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B21 (PAGE 3): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGEL-LUM | NO HOOK | EXCES-SIVE HOOK | COILED FLAGEL-LUM | BENT FLAGEL-LUM | SHORT SPERM HEAD | OTHER | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | | 3 MG/KG/DAY | | | | | | | | |
| 13661 | 198 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 13662 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13663 | 196 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13664 | 185 | 5 | 8 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 7.5 |
| 13665 | 190 | 4 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13666 | 189 | 6 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13667 | 193 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13668 | 194 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13669 | 193 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13670 | 188 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 |
| 13671 | 189 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13672 | 194 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13673 | 191 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13674 | 172 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 14.0 |
| 13675 | 194 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13676 | 189 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13677 | 194 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13678 | 195 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13679 | 187 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 |
| 13680 | 195 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13681 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13682 | 194 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13683 | 187 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 |
| 13684 | 191 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13685 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13686 | 181 | 11 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.5 |
| 13687 | 194 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13688 | 194 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13689 | 193 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13690 | 189 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B21 (PAGE 4): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGEL-LUM | NO HOOK | EXCES-SIVE HOOK | COILED FLAGEL-LUM | BENT FLAGEL-LUM | SHORT SPERM HEAD | OTHER | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | | 10 MG/KG/DAY | | | | | | | | |
| 13691 | 195 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13692 | 193 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13693 | 193 | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13694 | 186 | 6 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.0 |
| 13695 | 193 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13696 | 186 | 9 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7.0 |
| 13697 | 194 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13698 | 194 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13699 | 192 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4.0 |
| 13700 | 192 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13701 | 184 | 11 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8.0 |
| 13702 | 196 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13703 | 189 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13704 | 191 | 8 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4.5 |
| 13705 | 193 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13706 | 187 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 |
| 13707 | 190 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13708 | 183 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.5 |
| 13709 | 189 | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13710 | 188 | 9 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 6.0 |
| 13711 | 194 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13712 | 192 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13713 | 194 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13714 | 194 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13715 | 185 | 11 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7.5 |
| 13716 | 193 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13717 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13718 | 193 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13719 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13720 | 188 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE B21 (PAGE 5): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P GENERATION MALE RATS

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGEL-LUM | NO HOOK | EXCES-SIVE HOOK | COILED FLAGEL-LUM | BENT FLAGEL-LUM | SHORT SPERM HEAD | OTHER | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | | 30 MG/KG/DAY | | | | | | | | |
| 13721 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 13722 | 193 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13723 | 187 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 |
| 13724 | 196 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13725 | 193 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 13726 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13727 | 190 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13728 | 190 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13729 | 194 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13730 | 190 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13731 | 191 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13732 | MORIBUND SACRIFICED ON DAY 45 OF STUDY | | | | | | | | | | |
| 13733 | 4 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69.2 |
| 13734 | 196 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 13735 | 188 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 |
| 13736 | 190 | 5 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 13737 | 189 | 3 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 13738 | 191 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13739 | 194 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3.0 |
| 13740 | 191 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13741 | 3 | 83 | 94 | 17 | 1 | 1 | 1 | 0 | 0 | 0 | 98.5 |
| 13742 | 192 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13743 | 191 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 13744 | 192 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 13745 | 194 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 13746 | 187 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6.5 |
| 13747 | 197 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 13748 | 198 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 13749 | 194 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 3.0 |
| 13750 | 175 | 15 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 12.5 |

# APPENDIX C

## REPORT TABLES - P GENERATION FEMALE RATS

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C1 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| PRECOHABITATION (DAY 1 OF STUDY TO THE DAY OF COHABITATION): | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 2098/ 30 | 2089/ 30 | 2100/ 30 | 2100/ 30 | 2100/ 30 |
| MORIBUND SACRIFICED | 1a | 1b | 0 | 0 | 0 |
| INCISORS: TOTAL | 13/ 3 | 6/ 1 | 16/ 1 | 26/ 1 | 48/ 2 |
| MISSING/BROKEN | 12/ 2 | 6/ 1 | 0/ 0 | 13/ 1 | 27/ 2 |
| MISALIGNED | 1/ 1a | 0/ 0 | 16/ 1 | 13/ 1 | 39/ 1 |
| CHROMORHINORRHEA | 1/ 1a | 6/ 1 | 5/ 3 | 1/ 1 | 2/ 1 |
| UNGROOMED COAT | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 |
| SCAB(S) c | 7/ 1 | 0/ 0 | 0/ 0 | 7/ 1 | 0/ 0 |
| CHROMODACRYORRHEA | 1/ 1a | 0/ 0 | 3/ 1 | 13/ 1 | 0/ 0 |
| LOCALIZED ALOPECIA: TOTAL | 84/ 2 | 51/ 2 | 0/ 0 | 0/ 0 | 0/ 0 |
| LIMBS | 84/ 2 | 39/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| UNDERSIDE | 0/ 0 | 12/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| LEFT FORELIMB AND FOREPAW: SWOLLEN | 0/ 0 | 3/ 1b | 0/ 0 | 0/ 0 | 0/ 0 |
| SOFT OR LIQUID FECES | 0/ 0 | 3/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| LEFT FORELIMB: FRACTURED | 0/ 0 | 1/ 1b | 0/ 0 | 0/ 0 | 0/ 0 |
| PALATE: BROKEN | 1/ 1a | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| SWOLLEN SNOUT | 1/ 1a | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS X RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 13804 was moribund sacrificed on day 68 of study.
b. Rat 13836 was moribund sacrificed on day 59 of study.
c. Located on the back, right forelimb or left forelimb.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C1 (PAGE 2): CLINICAL OBSERVATIONS - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| PRESUMED GESTATION: a | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 640/ 29 | 642/ 29 | 641/ 29 | 595/ 27 | 640/ 29 |
| MORTALITY | 0 | 0 | 0 | 0 | 0 |
| LOCALIZED ALOPECIA: TOTAL | 26/ 3 | 37/ 2 | 7/ 1 | 17/ 1 | 15/ 2 |
| LIMBS | 26/ 3 | 22/ 1 | 7/ 1 | 17/ 1 | 15/ 2 |
| UNDERSIDE | 0/ 0 | 15/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| RIGHT OR BOTH EARS: SWOLLEN | 18/ 1 | 0/ 0 | 15/ 1 | 15/ 1 | 28/ 2 |
| INCISORS: TOTAL | 19/ 1 | 0/ 0 | 22/ 1 | 42/ 3 | 21/ 1 |
| MISSING/BROKEN | 0/ 0 | 0/ 0 | 0/ 0 | 20/ 2 | 13/ 1 |
| MISALIGNED | 19/ 1 | 0/ 0 | 22/ 1 | 22/ 1 | 21/ 1 |
| CHROMORHINORRHEA | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 | 1/ 1 |
| HEAD: MASS | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 3/ 1 |
| CHROMODACRYORRHEA | 19/ 1 | 0/ 0 | 3/ 1 | 4/ 2 | 0/ 0 |
| DRIED, RED PERINASAL SUBSTANCE | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 | 0/ 0 |
| BOTH FOREPAWS: DRIED, RED SUBSTANCE | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 | 0/ 0 |
| LEFT HINDPAW: SWOLLEN | 0/ 0 | 0/ 0 | 18/ 1 | 0/ 0 | 0/ 0 |
| LEFT HINDPAW OR LOWER MIDLINE: SCAB | 0/ 0 | 6/ 1 | 4/ 1 | 0/ 0 | 0/ 0 |
| LEFT HINDPAW: ABRASION | 0/ 0 | 0/ 0 | 3/ 1 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS X RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Restricted to rats with a confirmed mating date.

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TABLE C1 (PAGE 3): CLINICAL OBSERVATIONS - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| LACTATION: | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 602/ 28 | 583/ 27 | 638/ 29 | 638/ 29 | 617/ 29 |
| MORTALITY | | | | | |
| SACRIFICED a | 1b | 1c | 0 | 0 | 0 |
| LOCALIZED ALOPECIA: TOTAL | 34/ 3 | 49/ 3 | 2/ 2 | 22/ 1 | 30/ 4 |
| LIMBS | 34/ 3 | 42/ 3 | 2/ 2 | 22/ 1 | 23/ 3 |
| UNDERSIDE | 0/ 0 | 22/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| HEAD | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 7/ 1 |
| RIGHT OR BOTH EARS: SWOLLEN | 27/ 2 | 19/ 1 | 0/ 0 | 32/ 3 | 49/ 3 |
| INCISORS: TOTAL | 22/ 1 | 0/ 0 | 22/ 1 | 31/ 2 | 16/ 1 |
| MISSING/BROKEN | 0/ 0 | 0/ 0 | 16/ 1 | 9/ 1 | 16/ 1 |
| MISALIGNED | 22/ 1 | 0/ 0 | 22/ 1 | 22/ 1 | 14/ 1 |
| CHROMODACRYORRHEA | 22/ 1 | 0/ 0 | 0/ 0 | 4/ 1 | 10/ 1 |
| HEAD OR RIGHT AXILLA: MASS | 0/ 0 | 0/ 0 | 0/ 0 | 3/ 1 | 4/ 1 |
| HEAD: SCAB | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 7/ 1 |
| SOFT OR LIQUID FECES | 8/ 5 | 4/ 2 | 2/ 1 | 6/ 2 | 0/ 0 |
| TRAUMATIZED CORNEA | 0/ 0 | 0/ 0 | 19/ 1 | 0/ 0 | 0/ 0 |
| RIGHT EYE: SWOLLEN | 0/ 0 | 0/ 0 | 10/ 1 | 0/ 0 | 0/ 0 |
| TEAT: SWOLLEN | 0/ 0 | 0/ 0 | 2/ 1 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS X RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.
b. Dam 13822 was sacrificed on day 8 of lactation.
c. Dam 13852 was sacrificed on day 11 of lactation.

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TABLE C2 (PAGE 1): BODY WEIGHTS - PRECOHABITATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | | N | 30 | 30 | 30 | 30 | 30 |
| BODY WEIGHT (G) | | | | | | | |
| DAY 1 | | MEAN±S.D. | 147.8 ± 7.3 | 148.0 ± 5.7 | 149.3 ± 6.5 | 149.4 ± 6.5 | 148.9 ± 6.7 |
| DAY 8 | | MEAN±S.D. | 177.7 ± 9.1 | 175.3 ± 7.3 | 181.3 ± 8.2 | 180.6 ± 9.3 | 178.8 ± 7.0 |
| DAY 15 | | MEAN±S.D. | 202.4 ± 12.2 | 199.2 ± 11.1 | 206.9 ± 11.8 | 205.9 ± 12.0 | 202.7 ± 8.2 |
| DAY 22 | | MEAN±S.D. | 218.5 ± 15.0 | 214.5 ± 14.1 | 224.1 ± 15.8 | 223.1 ± 14.7 | 217.4 ± 9.6 |
| DAY 29 | | MEAN±S.D. | 234.5 ± 18.5 | 228.0 ± 15.5 | 239.8 ± 19.6 | 238.4 ± 15.8 | 233.0 ± 10.2 |
| DAY 36 | | MEAN±S.D. | 243.7 ± 18.2 | 236.7 ± 16.6 | 249.2 ± 21.5 | 247.9 ± 16.9 | 238.9 ± 10.1 |
| DAY 43 | | MEAN±S.D. | 252.8 ± 20.9 | 245.9 ± 16.1 | 259.7 ± 24.2 | 257.8 ± 17.2 | 250.1 ± 11.1 |
| DAY 50 | | MEAN±S.D. | 262.8 ± 20.4 | 255.8 ± 17.6 | 269.0 ± 25.5 | 268.3 ± 18.0 | 258.8 ± 11.7 |
| DAY 57 | | MEAN±S.D. | 268.9 ± 22.4 | 261.3 ± 17.4 | 276.9 ± 25.9 | 272.8 ± 19.0 | 264.0 ± 13.3 |
| DAY 64 | | MEAN±S.D. | 274.4 ± 22.2 | 268.5 ± 18.2 [ 29]a | 284.2 ± 27.1 | 279.7 ± 19.2 | 267.5 ± 13.0 |
| DAY 70b | | MEAN±S.D. | 276.8 ± 22.7 [ 29]a | 271.8 ± 18.1 [ 29]a | 287.2 ± 27.6 | 284.4 ± 21.8 | 271.8 ± 14.0 |

DAY = DAY OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were moribund sacrificed.
b. Last value recorded before cohabitation.

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TABLE C3 (PAGE 1): BODY WEIGHT CHANGES - PRECOHABITATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | +30.0 ± 7.5 | +27.3 ± 5.2 | +32.0 ± 4.7 | +31.2 ± 4.8 | +30.0 ± 4.1 |
| DAYS 8 - 15 | MEAN±S.D. | +24.6 ± 6.0 | +23.9 ± 5.4 | +25.6 ± 4.9 | +25.3 ± 5.8 | +23.8 ± 4.7 |
| DAYS 15 - 22 | MEAN±S.D. | +16.1 ± 5.5 | +15.3 ± 5.2 | +17.2 ± 7.0 | +17.2 ± 6.0 | +14.7 ± 4.8 |
| DAYS 22 - 29 | MEAN±S.D. | +16.0 ± 7.0 | +13.5 ± 4.0 | +15.7 ± 5.6 | +15.3 ± 3.9 | +15.6 ± 4.1 |
| DAYS 29 - 36 | MEAN±S.D. | +9.2 ± 6.9 | +8.8 ± 5.4 | +9.5 ± 4.5 | +9.5 ± 3.6 | +6.0 ± 4.9* |
| DAYS 36 - 43 | MEAN±S.D. | +9.1 ± 5.3 | +9.1 ± 5.3 | +10.5 ± 5.2 | +9.9 ± 4.1 | +11.1 ± 4.6 |
| DAYS 43 - 50 | MEAN±S.D. | +10.0 ± 5.8 | +9.9 ± 4.5 | +9.2 ± 5.1 | +10.4 ± 4.8 | +8.7 ± 5.1 |
| DAYS 50 - 57 | MEAN±S.D. | +6.1 ± 5.7 | +5.5 ± 4.4 | +7.9 ± 5.1 | +4.6 ± 5.0 | +5.2 ± 3.8 |
| DAYS 57 - 64 | MEAN±S.D. | +5.5 ± 5.8 | +6.4 ± 4.9 [ 29]a | +7.3 ± 3.8 | +6.9 ± 5.9 | +3.5 ± 5.9 |
| DAYS 64 - 70b | MEAN±S.D. | +2.6 ± 5.4 [ 29]a | +3.3 ± 3.6 [ 29]a | +3.1 ± 5.0 | +4.7 ± 5.6 | +4.3 ± 5.5 |
| DAYS 1 - 70b | MEAN±S.D. | +129.3± 21.7 [ 29]a | +124.1± 17.1 [ 29]a | +138.0± 24.1 | +134.9± 18.7 | +123.0± 13.4 |

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were moribund sacrificed.
b. Last value recorded before cohabitation.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE C4 (PAGE 1): MATERNAL BODY WEIGHTS - GESTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | | N | 28 | 27 | 30 | 29 | 29 |
| INCLUDED IN ANALYSES | | N | 28 | 27 | 29b | 27b | 28b |
| MATERNAL BODY WEIGHT (G) | | | | | | | |
| DAY | 0 | MEAN±S.D. | 280.3 ± 24.2 | 272.0 ± 19.2 | 283.5 ± 27.3 | 279.7 ± 22.7 | 269.8 ± 14.8 |
| DAY | 7 | MEAN±S.D. | 310.3 ± 24.9 | 299.6 ± 21.8 | 313.6 ± 30.0 | 309.6 ± 22.2 | 295.1 ± 15.5* |
| DAY | 10 | MEAN±S.D. | 320.6 ± 25.5 | 310.5 ± 22.6 | 325.4 ± 31.3 | 322.7 ± 23.7 | 306.4 ± 16.2 |
| DAY | 14 | MEAN±S.D. | 337.7 ± 26.3 | 324.7 ± 22.2 | 343.3 ± 32.8 | 337.3 ± 24.4 | 320.5 ± 19.7* |
| DAY | 18 | MEAN±S.D. | 377.4 ± 29.3 [ 27]c | 371.6 ± 26.8 | 386.4 ± 35.6 | 378.8 ± 26.8 | 363.3 ± 25.7 |
| DAY | 21 | MEAN±S.D. | 405.4 ± 46.0 [ 27]d | 389.0 ± 51.5 | 414.7 ± 47.2 | 415.3 ± 29.8 [ 26]d | 381.4 ± 43.1 |

DAY = DAY OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes rats that did not have a confirmed mating date.
c. Excludes values that were not recorded.
d. Excludes values for rats that delivered.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE C5 (PAGE 1): MATERNAL BODY WEIGHT CHANGES - GESTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 28 | 27 | 29b | 27b | 28b |
| MATERNAL BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 0 - 7 | MEAN±S.D. | +30.0 ± 9.3 | +27.6 ± 7.1 | +30.1 ± 9.0 | +29.9 ± 10.4 | +25.3 ± 8.3 |
| DAYS 7 - 10 | MEAN±S.D. | +10.3 ± 6.0 | +10.9 ± 6.3 | +11.8 ± 5.3 | +13.1 ± 5.2 | +11.3 ± 6.4 |
| DAYS 10 - 14 | MEAN±S.D. | +17.1 ± 6.2 | +14.2 ± 4.3 | +17.9 ± 5.4 | +14.6 ± 6.2 | +14.0 ± 9.4 |
| DAYS 14 - 18 | MEAN±S.D. | +39.1 ± 11.2 [ 27]c | +46.9 ± 8.9 | +43.0 ± 12.1 | +41.5 ± 9.3 | +42.8 ± 15.0 |
| DAYS 18 - 21 | MEAN±S.D. | +29.5 ± 31.6 [ 26]c,d | +17.4 ± 38.2 | +28.3 ± 24.6 | +36.6 ± 12.0 [ 26]d | +18.1 ± 35.7 |
| DAYS 0 - 21 | MEAN±S.D. | +126.0± 33.2 [ 27]d | +117.1± 40.8 | +131.2± 29.4 | +134.8± 20.5 [ 26]d | +111.5± 38.9 |

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes rats that did not have a confirmed mating date.
c. Excludes values that were not recorded.
d. Excludes values for rats that delivered.



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TABLE C6 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | | N | 28 | 27 | 30 | 29 | 29 |
| DELIVERED A LITTER | | N | 28 | 27 | 29 | 29 | 29 |
| MATERNAL BODY WEIGHT (G) | | | | | | | |
| DAY 1 | | MEAN±S.D. | 313.1 ± 24.7 | 303.2 ± 19.8 | 321.2 ± 28.8 | 312.2 ± 24.1 | 300.3 ± 19.9 |
| DAY 5 | | MEAN±S.D. | 322.8 ± 28.6 | 310.2 ± 22.0 | 327.3 ± 29.1 | 318.8 ± 25.4 | 308.3 ± 18.8 [ 27]b,c |
| DAY 8 | | MEAN±S.D. | 341.0 ± 26.3 [ 24]b | 327.8 ± 24.3 [ 23]b | 337.7 ± 27.6 [ 25]b | 339.8 ± 28.2 [ 21]b | 322.8 ± 19.4 [ 25]b,c |
| DAY 11 | | MEAN±S.D. | 351.5 ± 28.2 [ 25]b,c | 339.4 ± 29.7 [ 22]b,c | 351.4 ± 31.2 [ 28]b | 345.2 ± 24.9 | 332.3 ± 20.5 [ 27]b,c |
| DAY 15 | | MEAN±S.D. | 354.4 ± 29.5 [ 27]c | 345.3 ± 26.8 [ 26]c | 357.7 ± 28.9 | 349.9 ± 27.8 | 344.2 ± 18.1 [ 28]c |
| DAY 22 | | MEAN±S.D. | 345.0 ± 29.1 [ 27]c | 339.5 ± 23.6 [ 26]c | 351.4 ± 23.0 | 342.1 ± 26.1 | 345.0 ± 17.7 [ 28]c |

DAY = DAY OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes values that were not recorded.
c. Excludes values for rats that were sacrificed or sacrificed due to no surviving pups.

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TABLE C7 (PAGE 1): MATERNAL BODY WEIGHT CHANGES - LACTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| DELIVERED A LITTER | N | 28 | 27 | 29 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 28 | 27 | 29 | 29 | 28b |
| MATERNAL BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 1 - 5 | MEAN±S.D. | +9.7 ± 11.8 | +7.0 ± 14.5 | +6.1 ± 11.0 | +6.6 ± 12.8 | +7.4 ± 13.0 [ 27]c |
| DAYS 5 - 8 | MEAN±S.D. | +12.4 ± 13.1 [ 24]c | +16.0 ± 10.6 [ 23]c | +14.1 ± 10.7 [ 25]c | +18.8 ± 8.4 [ 21]c | +12.5 ± 9.8 [ 24]c |
| DAYS 8 - 11 | MEAN±S.D. | +14.9 ± 12.9 [ 21]b,c | +9.8 ± 14.9 [ 18]b,c | +9.6 ± 13.2 [ 24]c | +7.1 ± 22.6 [ 21]c | +9.1 ± 15.2 [ 24]c |
| DAYS 11 - 15 | MEAN±S.D. | +4.3 ± 15.9 [ 25]b,c | +8.5 ± 19.3 [ 22]b,c | +6.0 ± 16.1 [ 28]c | +4.8 ± 19.1 | +12.6 ± 13.4 [ 27]c |
| DAYS 1 - 15 | MEAN±S.D. | +41.8 ± 14.5 [ 27]b | +42.8 ± 17.5 [ 26]b | +36.5 ± 13.0 | +37.8 ± 16.0 | +42.9 ± 17.2 |
| DAYS 15 - 22 | MEAN±S.D. | -9.4 ± 25.2 [ 27]b | -5.8 ± 22.5 [ 26]b | -6.3 ± 16.5 | -7.9 ± 22.9 | +0.8 ± 16.8 |
| DAYS 1 - 22 | MEAN±S.D. | +32.4 ± 23.0 [ 27]b | +37.0 ± 21.7 [ 26]b | +30.2 ± 19.4 | +29.9 ± 21.3 | +43.7 ± 15.8 |

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were moribund sacrificed prior to cohabitation.
b. Excludes values for rats that were sacrificed or sacrificed due to no surviving pups.
c. Excludes values that were not recorded.

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TABLE C8 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - PRECOHABITATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 18.8 ± 1.8 | 19.2 ± 2.1 [ 29]a | 19.9 ± 1.4 | 19.7 ± 1.7 | 19.6 ± 1.5 [ 29]a |
| DAYS 8 - 15 | MEAN±S.D. | 20.8 ± 2.4 | 21.0 ± 2.9 [ 29]a | 21.8 ± 2.7 [ 29]a | 21.7 ± 2.4 | 21.2 ± 1.8 |
| DAYS 15 - 22 | MEAN±S.D. | 21.5 ± 2.0 [ 28]a | 21.2 ± 2.3 [ 29]a | 21.8 ± 2.2 [ 29]a | 22.2 ± 1.9 [ 29]a | 20.9 ± 1.6 [ 25]a |
| DAYS 22 - 29 | MEAN±S.D. | 21.3 ± 2.2 [ 28]a | 20.7 ± 2.2 | 22.3 ± 2.8 | 22.1 ± 2.9 [ 29]a | 21.2 ± 1.6 [ 28]a |
| DAYS 29 - 36 | MEAN±S.D. | 21.4 ± 2.4 | 21.0 ± 1.8 | 21.8 ± 2.1 [ 29]a | 22.0 ± 2.3 [ 29]a | 21.0 ± 1.9 [ 29]a |
| DAYS 36 - 43 | MEAN±S.D. | 21.6 ± 2.5 [ 29]a | 21.5 ± 1.9 [ 29]a | 22.6 ± 2.7 | 22.2 ± 2.2 [ 29]a | 21.4 ± 1.8 [ 29]a |
| DAYS 43 - 50 | MEAN±S.D. | 22.6 ± 2.8 [ 27]a | 21.7 ± 1.8 [ 29]a | 22.8 ± 2.5 [ 29]a | 22.5 ± 2.4 [ 28]a | 22.0 ± 3.0 |
| DAYS 50 - 57 | MEAN±S.D. | 21.0 ± 2.3 [ 28]a | 21.2 ± 2.0 | 22.2 ± 2.2 [ 27]a | 22.2 ± 2.8 [ 29]a | 21.2 ± 2.3 [ 28]a |
| DAYS 57 - 64 | MEAN±S.D. | 21.8 ± 2.8 [ 27]a | 21.1 ± 1.6 [ 29]b | 22.1 ± 1.8 | 21.8 ± 2.2 [ 29]a | 20.5 ± 1.7* |
| DAYS 64 - 70c | MEAN±S.D. | 21.3 ± 2.0 [ 27]a,b | 21.1 ± 2.3 [ 29]b | 21.4 ± 2.0 | 21.2 ± 2.4 [ 29]a | 20.1 ± 2.0 |
| DAYS 1 - 70c | MEAN±S.D. | 21.3 ± 1.6 [ 27]a,b | 21.0 ± 1.7 [ 29]b | 21.9 ± 2.0 | 21.8 ± 1.9 [ 29]a | 21.0 ± 1.5 |

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were not recorded or appeared incorrectly recorded, as well as those associated with spillage.
b. Excludes values for rats that were moribund sacrificed.
c. Last value recorded before cohabitation.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE C9 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - PRECOHABITATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 30 | 30 |
| FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 115.6 ± 9.4 | 118.9 ± 11.6 [ 29]a | 120.4 ± 6.5 | 119.6 ± 7.8 | 120.0 ± 8.0 [ 29]a |
| DAYS 8 - 15 | MEAN±S.D. | 110.0 ± 14.4 | 112.0 ± 13.7 [ 29]a | 112.8 ± 13.5 [ 29]a | 112.1 ± 9.5 | 111.2 ± 8.9 |
| DAYS 15 - 22 | MEAN±S.D. | 102.4 ± 8.4 [ 28]a | 102.2 ± 7.4 [ 29]a | 101.3 ± 7.6 [ 29]a | 103.7 ± 7.1 [ 29]a | 100.0 ± 6.0 [ 25]a |
| DAYS 22 - 29 | MEAN±S.D. | 94.3 ± 8.9 [ 28]a | 93.5 ± 6.7 | 96.0 ± 9.1 | 95.2 ± 10.7 [ 29]a | 94.1 ± 6.4 [ 28]a |
| DAYS 29 - 36 | MEAN±S.D. | 89.3 ± 5.8 | 90.7 ± 5.9 | 89.2 ± 4.8 [ 29]a | 90.5 ± 6.4 [ 29]a | 89.2 ± 8.0 [ 29]a |
| DAYS 36 - 43 | MEAN±S.D. | 86.9 ± 6.9 [ 29]a | 88.8 ± 6.4 [ 29]a | 88.7 ± 7.2 | 87.6 ± 6.1 [ 29]a | 87.5 ± 5.6 [ 29]a |
| DAYS 43 - 50 | MEAN±S.D. | 87.8 ± 7.2 [ 27]a | 86.7 ± 5.3 [ 29]a | 86.0 ± 6.2 [ 29]a | 85.6 ± 5.8 [ 28]a | 86.3 ± 10.3 |
| DAYS 50 - 57 | MEAN±S.D. | 79.6 ± 6.4 [ 28]a | 82.1 ± 6.2 | 80.7 ± 5.8 [ 27]a | 82.1 ± 7.2 [ 29]a | 81.0 ± 7.0 [ 28]a |
| DAYS 57 - 64 | MEAN±S.D. | 81.1 ± 9.2 [ 27]a | 79.7 ± 5.0 [ 29]b | 78.9 ± 4.8 | 78.7 ± 5.8 [ 29]a | 77.3 ± 4.8 |
| DAYS 64 - 70c | MEAN±S.D. | 76.6 ± 5.4 [ 27]a,b | 78.1 ± 7.8 [ 29]b | 75.3 ± 6.3 | 75.2 ± 5.2 [ 29]a | 74.3 ± 5.7 |
| DAYS 1 - 70c | MEAN±S.D. | 91.1 ± 4.1 [ 27]a,b | 92.2 ± 5.4 [ 29]b | 91.8 ± 5.7 | 91.9 ± 4.8 [ 29]a | 91.0 ± 4.7 |

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were not recorded or appeared incorrectly recorded, as well as those associated with spillage.
b. Excludes values for rats that were moribund sacrificed.
c. Last value recorded before cohabitation.

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TABLE C10 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - GESTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 28 | 27 | 29b | 27b | 28b |
| MATERNAL FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 0 - 7 | MEAN±S.D. | 25.9 ± 3.2 [ 27]c | 25.7 ± 2.4 | 26.0 ± 3.1 [ 26]c | 25.0 ± 2.5 | 24.1 ± 2.3 [ 27]c |
| DAYS 7 - 10 | MEAN±S.D. | 27.0 ± 3.7 | 25.7 ± 2.5 | 28.0 ± 2.9 | 26.8 ± 2.8 [ 26]c | 25.5 ± 2.5 |
| DAYS 10 - 14 | MEAN±S.D. | 27.6 ± 3.5 | 25.8 ± 2.4* [ 26]c | 28.4 ± 3.5 [ 28]c | 26.2 ± 3.3 [ 26]c | 25.4 ± 3.0* |
| DAYS 14 - 18 | MEAN±S.D. | 26.1 ± 2.8 | 26.8 ± 2.7 [ 26]c | 27.3 ± 3.1 | 26.1 ± 2.5 [ 26]c | 25.6 ± 3.7 |
| DAYS 18 - 21 | MEAN±S.D. | 23.6 ± 2.4 [ 25]d | 23.2 ± 3.1 [ 23]d | 24.5 ± 2.8 [ 28]d | 23.5 ± 3.6 [ 26]d | 23.0 ± 3.9 [ 27]d |
| DAYS 0 - 21 | MEAN±S.D. | 26.1 ± 2.6 [ 25]d | 25.6 ± 1.9 [ 23]d | 26.7 ± 2.3 [ 28]d | 25.6 ± 2.2 [ 26]d | 24.6 ± 2.2* [ 27]d |

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes rats that did not have a confirmed mating date.
c. Excludes values that were associated with spillage.
d. Excludes values for rats that delivered.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE C11 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - GESTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 28 | 27 | 29b | 27b | 28b |
| MATERNAL FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 0 - 7 | MEAN±S.D. | 87.5 ± 9.5 [ 27]c | 90.1 ± 8.3 | 87.0 ± 7.6 [ 26]c | 84.8 ± 7.4 | 85.3 ± 7.1 [ 27]c |
| DAYS 7 - 10 | MEAN±S.D. | 85.4 ± 8.3 | 84.5 ± 7.0 | 87.7 ± 7.1 | 85.1 ± 6.5 [ 26]c | 84.8 ± 6.4 |
| DAYS 10 - 14 | MEAN±S.D. | 84.0 ± 7.7 | 81.5 ± 7.3 [ 26]c | 84.4 ± 8.0 [ 28]c | 79.6 ± 6.5 [ 26]c | 81.0 ± 7.6 |
| DAYS 14 - 18 | MEAN±S.D. | 73.3 ± 6.2 [ 27]c | 77.1 ± 7.7 [ 26]c | 75.1 ± 8.6 | 73.2 ± 5.4 [ 26]c | 74.7 ± 9.4 |
| DAYS 18 - 21 | MEAN±S.D. | 59.7 ± 8.5 [ 24]c,d | 59.9 ± 7.7 [ 23]d | 61.3 ± 6.0 [ 28]d | 59.1 ± 7.7 [ 26]d | 61.7 ± 9.2 [ 27]d |
| DAYS 0 - 21 | MEAN±S.D. | 77.0 ± 5.5 [ 25]d | 77.3 ± 5.7 [ 23]d | 77.7 ± 4.4 [ 28]d | 75.0 ± 4.4 [ 26]d | 76.0 ± 5.3 [ 27]d |

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes rats that did not have a confirmed mating date.
c. Excludes values that were not recorded, as well as those associated with spillage.
d. Excludes values for rats that delivered.

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TABLE C12 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - LACTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| DELIVERED A LITTER | N | 28 | 27 | 29 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 28 | 27 | 29 | 29 | 28b |
| MATERNAL FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 1 - 5 | MEAN±S.D. | 31.8 ± 6.4 [ 25]c | 31.9 ± 4.6 | 33.1 ± 7.1 [ 28]c | 31.0 ± 6.3 [ 25]c | 29.6 ± 6.1 [ 26]c |
| DAYS 5 - 8 | MEAN±S.D. | 51.2 ± 8.6 [ 26]b,c | 49.6 ± 7.2 | 50.0 ± 10.8 | 50.9 ± 8.9 [ 28]c | 47.6 ± 10.0 |
| DAYS 8 - 11 | MEAN±S.D. | 61.8 ± 10.6 [ 25]b,c | 58.7 ± 10.5 [ 25]b,c | 62.2 ± 13.1 | 59.6 ± 8.4 [ 28]c | 55.2 ± 10.6 [ 27]c |
| DAYS 11 - 15d | MEAN±S.D. | 69.4 ± 11.1 [ 26]b,c | 68.2 ± 8.6 [ 25]b,c | 69.0 ± 14.0 [ 28]c | 67.6 ± 12.8 | 66.2 ± 7.7 |
| DAYS 1 - 15d | MEAN±S.D. | 54.1 ± 7.5 [ 26]b,c | 51.8 ± 5.7 [ 25]b,c | 53.6 ± 10.7 [ 28]c | 53.1 ± 9.3 | 50.0 ± 7.3 |

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes values for rats that were sacrificed or sacrificed due to no surviving pups.
c. Excludes values that were associated with spillage.
d. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C13 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - LACTATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| DELIVERED A LITTER | N | 28 | 27 | 29 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 28 | 27 | 29 | 29 | 28b |
| MATERNAL FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 1 - 5 | MEAN±S.D. | 100.3 ± 17.5 [ 25]c | 104.0 ± 13.6 | 102.9 ± 21.8 [ 28]c | 98.1 ± 19.6 [ 25]c | 96.4 ± 20.5 [ 25]c |
| DAYS 5 - 8 | MEAN±S.D. | 152.3 ± 21.9 [ 22]b,c | 153.3 ± 15.8 [ 23]c | 145.1 ± 27.2 [ 25]c | 154.4 ± 22.6 [ 20]c | 151.5 ± 30.6 [ 24]c |
| DAYS 8 - 11 | MEAN±S.D. | 175.9 ± 27.4 [ 19]b,c | 176.6 ± 27.6 [ 17]b,c | 173.7 ± 31.3 [ 24]c | 176.7 ± 19.8 [ 20]c | 168.3 ± 29.0 [ 23]c |
| DAYS 11 - 15d | MEAN±S.D. | 194.2 ± 27.5 [ 24]b,c | 197.9 ± 21.4 [ 21]b,c | 193.2 ± 34.7 [ 27]c | 194.2 ± 33.6 | 196.7 ± 22.4 [ 27]c |
| DAYS 1 - 15d | MEAN±S.D. | 161.0 ± 18.7 [ 26]b,c | 159.9 ± 13.8 [ 25]b,c | 157.2 ± 26.4 [ 28]c | 159.8 ± 26.2 | 155.5 ± 20.6 |

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes values for rats that were sacrificed or sacrificed due to no surviving pups.
c. Excludes values that were not recorded, as well as those associated with spillage.
d. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.

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TABLE C14 (PAGE 1): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| ESTROUS CYCLING OBSERVATIONS | | | | | | |
| PRECOHABITATION ESTROUS CYCLING | | | | | | |
| RATS EVALUATED | N | 29a | 29a | 30 | 30 | 30 |
| ESTROUS STAGES/ 21 DAYS | MEAN±S.D. | 5.2 ± 1.0 | 5.2 ± 0.6 | 5.0 ± 0.8 | 4.9 ± 1.0 | 5.2 ± 0.7 |
| RATS WITH 6 OR MORE CONSECUTIVE DAYS OF DIESTRUS | N | 2 | 0 | 0 | 1 | 0 |
| RATS WITH 6 OR MORE CONSECUTIVE DAYS OF ESTRUS | N | 0 | 0 | 2 | 1 | 1 |
| ESTROUS STAGE AT SACRIFICE | | | | | | |
| RATS EVALUATED | N | 28b | 28b | 30 | 30 | 29b |
| DIESTRUS | N | 7 | 9 | 13 | 11 | 8 |
| PROESTRUS | N | 21 | 16 | 14 | 16 | 20 |
| ESTRUS | N | 0 | 2 | 1 | 1 | 1 |
| METESTRUS | N | 0 | 1 | 2 | 2 | 0 |

a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Excludes values for rats that did not have a value recorded.



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TABLE C14 (PAGE 2): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS IN COHABITATION | N | 29a | 29a | 30 | 30 | 30 |
| DAYS IN COHABITATION b | MEAN±S.D. | 3.3 ± 2.6 | 1.9 ± 1.2* | 2.4 ± 1.7 [ 29] | 3.1 ± 2.4 [ 28] | 2.6 ± 1.4 [ 29] |
| RATS THAT MATED | N(%) | 29(100.0) | 29(100.0) | 30(100.0) | 29( 96.7) | 30(100.0) |
| FERTILITY INDEX c | N/N | 28/ 29 | 27/ 29 | 30/ 30 | 29/ 29 | 29/ 30 |
| | (%) | ( 96.6) | ( 93.1) | (100.0) | (100.0) | ( 96.7) |
| RATS WITH CONFIRMED MATING DATES | N | 29 | 29 | 29 | 27 | 29 |
| RATS MATING d | | | | | | |
| DAYS 1-7 | N(%) | 27( 93.1) | 29(100.0) | 28( 96.6) | 27(100.0) | 29(100.0) |
| DAYS 8-14 | N(%) | 2( 6.9) | 0( 0.0) | 1( 3.4) | 0( 0.0) | 0( 0.0) |
| RATS PREGNANT/RATS IN COHABITATION | N/N | 28/ 29 | 27/ 29 | 30/ 30 | 29/ 30 | 29/ 30 |
| | (%) | ( 96.6) | ( 93.1) | (100.0) | ( 96.7) | ( 96.7) |

[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Restricted to rats with a confirmed mating date and rats that did not mate.
c. Number of pregnancies/number of rats that mated.
d. Restricted to rats with a confirmed mating date.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE C15 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS EXAMINED a | N | 30 | 30 | 30 | 30 | 30 |
| MORIBUND SACRIFICED | N | 1b | 1c | 0 | 0 | 0 |
| SACRIFICED d | N | 1e | 1f | 0 | 0 | 0 |
| APPEARED NORMAL | N | 29e | 29f | 29 | 30 | 30 |
| KIDNEYS: | | | | | | |
| LEFT, PELVIS, MARKED DILATION | N | 0 | 0 | 1 | 0 | 0 |
| LEFT FORELIMB: | | | | | | |
| ULNA AND RADIUS, BROKEN | N | 0 | 1c | 0 | 0 | 0 |

a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.
b. Rat 13804 was moribund sacrificed on day 68 of study.
c. Rat 13836 was moribund sacrificed on day 59 of study.
d. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.
e. Rat 13822 was sacrificed on day 8 of lactation.
f. Rat 13852 was sacrificed on day 11 of lactation.



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TABLE C16 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 29a | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 27b | 26b | 29c | 29 | 28b |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 345.0 ± 29.1 | 339.5 ± 23.6 | 351.4 ± 23.0 | 342.1 ± 26.1 | 345.0 ± 17.7 |
| PITUITARY | MEAN±S.D. | 0.018 ± 0.005 [ 26]d | 0.019 ± 0.005 | 0.017 ± 0.004 | 0.016 ± 0.006 | 0.016 ± 0.006 [ 27]d |
| BRAIN | MEAN±S.D. | 2.22 ± 0.13 | 2.21 ± 0.14 | 2.22 ± 0.13 | 2.22 ± 0.08 | 2.17 ± 0.11 |
| LIVER | MEAN±S.D. | 18.69 ± 2.49 | 17.97 ± 2.13 | 17.85 ± 1.78 | 17.25 ± 1.94 | 18.08 ± 1.71 |
| KIDNEY LEFT | MEAN±S.D. | 1.57 ± 0.16 | 1.58 ± 0.14 | 1.58 ± 0.18 | 1.52 ± 0.14 | 1.44 ± 0.10** |
| KIDNEY RIGHT | MEAN±S.D. | 1.57 ± 0.18 | 1.61 ± 0.14 | 1.62 ± 0.16 | 1.55 ± 0.13 | 1.49 ± 0.10* |
| ADRENAL LEFT | MEAN±S.D. | 0.045 ± 0.010 | 0.051 ± 0.009 | 0.048 ± 0.010 | 0.046 ± 0.007 | 0.046 ± 0.010 |
| ADRENAL RIGHT | MEAN±S.D. | 0.045 ± 0.007 | 0.046 ± 0.008 | 0.043 ± 0.006 | 0.042 ± 0.009 | 0.042 ± 0.010 [ 27]d |
| SPLEEN | MEAN±S.D. | 0.67 ± 0.10 | 0.69 ± 0.09 | 0.71 ± 0.11 | 0.69 ± 0.09 | 0.72 ± 0.10 |
| CERVIX | MEAN±S.D. | 0.22 ± 0.12 | 0.19 ± 0.05 | 0.20 ± 0.08 | 0.20 ± 0.10 | 0.17 ± 0.06 |
| OVARY LEFT | MEAN±S.D. | 0.052 ± 0.011 | 0.055 ± 0.016 | 0.054 ± 0.014 | 0.049 ± 0.010 | 0.053 ± 0.016 |
| OVARY RIGHT | MEAN±S.D. | 0.053 ± 0.011 | 0.057 ± 0.018 | 0.057 ± 0.013 | 0.054 ± 0.012 | 0.049 ± 0.014 |
| UTERUS NON-GRAVID | MEAN±S.D. | 0.52 ± 0.14 | 0.59 ± 0.21 | 0.53 ± 0.15 | 0.58 ± 0.19 | 0.50 ± 0.11 |

[ ] = NUMBER OF VALUES AVERAGED
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Excludes rat 13900, which did not have organ weight values recorded.
b. Excludes values for rats that were sacrificed, moribund sacrificed or sacrificed due to no surviving pups.
c. Excludes dam 13862, which was pregnant but did not deliver a litter.
d. Excludes values that appeared incorrectly recorded.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE C17 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 29a | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 27b | 26b | 29c | 29 | 28b |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 345.0 ± 29.1 | 339.5 ± 23.6 | 351.4 ± 23.0 | 342.1 ± 26.1 | 345.0 ± 17.7 |
| PITUITARY d | MEAN±S.D. | 5.311 ± 1.260 [ 26]e | 5.506 ± 1.457 | 4.933 ± 1.064 | 4.674 ± 2.089 | 4.547 ± 1.735 [ 27]e |
| BRAIN | MEAN±S.D. | 0.648 ± 0.057 | 0.654 ± 0.054 | 0.634 ± 0.050 | 0.653 ± 0.053 | 0.630 ± 0.034 |
| LIVER | MEAN±S.D. | 5.405 ± 0.425 | 5.284 ± 0.422 | 5.088 ± 0.481* | 5.047 ± 0.455** | 5.244 ± 0.461 |
| KIDNEY LEFT | MEAN±S.D. | 0.455 ± 0.042 | 0.465 ± 0.041 | 0.449 ± 0.040 | 0.443 ± 0.032 | 0.418 ± 0.032** |
| KIDNEY RIGHT | MEAN±S.D. | 0.456 ± 0.044 | 0.474 ± 0.042 | 0.461 ± 0.037 | 0.454 ± 0.032 | 0.431 ± 0.029* |
| ADRENAL LEFT d | MEAN±S.D. | 13.162 ± 2.855 | 14.963 ± 2.401 | 13.614 ± 2.787 | 13.438 ± 2.221 | 13.312 ± 3.037 |
| ADRENAL RIGHT d | MEAN±S.D. | 13.042 ± 2.341 | 13.642 ± 2.274 | 12.230 ± 1.775 | 12.418 ± 2.418 | 12.042 ± 2.869 [ 27]e |
| SPLEEN | MEAN±S.D. | 0.195 ± 0.026 | 0.204 ± 0.026 | 0.203 ± 0.029 | 0.200 ± 0.023 | 0.207 ± 0.028 |
| CERVIX | MEAN±S.D. | 0.063 ± 0.031 | 0.057 ± 0.014 | 0.058 ± 0.026 | 0.058 ± 0.027 | 0.049 ± 0.017 |
| OVARY LEFT d | MEAN±S.D. | 15.227 ± 3.484 | 16.053 ± 4.570 | 15.333 ± 4.080 | 14.289 ± 3.173 | 15.446 ± 4.566 |
| OVARY RIGHT d | MEAN±S.D. | 15.417 ± 2.965 | 16.886 ± 5.250 | 16.271 ± 3.379 | 15.903 ± 3.306 | 14.108 ± 3.631 |
| UTERUS NON-GRAVID | MEAN±S.D. | 0.154 ± 0.043 | 0.175 ± 0.063 | 0.151 ± 0.044 | 0.170 ± 0.049 | 0.146 ± 0.033 |

[ ] = NUMBER OF VALUES AVERAGED
ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Excludes rat 13900, which did not have organ weight values recorded.
b. Excludes values for rats that were sacrificed, moribund sacrificed or sacrificed due to no surviving pups.
c. Excludes dam 13862, which was pregnant but did not deliver a litter.
d. Value was multiplied by 1000.
e. Excludes values that appeared incorrectly recorded.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE C18 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 30 | 30 | 29a | 30 |
| PREGNANT | N | 28 | 27 | 30 | 29 | 29 |
| INCLUDED IN ANALYSES | N | 27b | 26b | 29c | 29 | 28b |
| BRAIN WEIGHT | MEAN±S.D. | 2.22 ± 0.13 | 2.21 ± 0.14 | 2.22 ± 0.13 | 2.22 ± 0.08 | 2.17 ± 0.11 |
| PITUITARY | MEAN±S.D. | 0.82 ± 0.20 [ 26]d | 0.85 ± 0.23 | 0.78 ± 0.16 | 0.71 ± 0.27 | 0.72 ± 0.28 [ 27]d |
| LIVER | MEAN±S.D. | 839.90 ±101.30 | 814.22 ± 93.64 | 806.07 ± 98.78 | 776.69 ± 90.72 | 834.10 ± 80.85 |
| KIDNEY LEFT | MEAN±S.D. | 70.57 ± 7.47 | 71.66 ± 7.89 | 71.24 ± 8.32 | 68.35 ± 6.17 | 66.42 ± 4.29* |
| KIDNEY RIGHT | MEAN±S.D. | 70.80 ± 7.55 | 73.06 ± 7.36 | 73.00 ± 7.24 | 69.80 ± 6.03 | 68.59 ± 4.86 |
| ADRENAL LEFT | MEAN±S.D. | 2.03 ± 0.42 | 2.31 ± 0.44 | 2.14 ± 0.43 | 2.06 ± 0.30 | 2.11 ± 0.48 |
| ADRENAL RIGHT | MEAN±S.D. | 2.01 ± 0.33 | 2.10 ± 0.39 | 1.94 ± 0.31 | 1.91 ± 0.38 | 1.92 ± 0.46 [ 27]d |
| SPLEEN | MEAN±S.D. | 30.28 ± 3.63 | 31.47 ± 4.70 | 32.14 ± 5.27 | 30.94 ± 3.74 | 33.18 ± 4.83 |
| CERVIX | MEAN±S.D. | 9.76 ± 5.09 | 8.80 ± 2.28 | 9.21 ± 3.79 | 9.00 ± 4.37 | 7.90 ± 2.68 |
| OVARY LEFT | MEAN±S.D. | 2.35 ± 0.49 | 2.48 ± 0.74 | 2.43 ± 0.65 | 2.19 ± 0.46 | 2.46 ± 0.76 |
| OVARY RIGHT | MEAN±S.D. | 2.40 ± 0.55 | 2.58 ± 0.78 | 2.58 ± 0.57 | 2.45 ± 0.54 | 2.25 ± 0.59 |
| UTERUS NON-GRAVID | MEAN±S.D. | 23.74 ± 6.45 | 26.97 ± 10.31 | 23.93 ± 6.55 | 26.16 ± 8.39 | 23.15 ± 5.23 |

[ ] = NUMBER OF VALUES AVERAGED
ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Excludes rat 13900, which did not have organ weight values recorded.
b. Excludes values for rats that were sacrificed, moribund sacrificed or sacrificed due to no surviving pups.
c. Excludes dam 13862, which was pregnant but did not deliver a litter.
d. Excludes values that appeared incorrectly recorded.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE C19 (PAGE 1): NATURAL DELIVERY OBSERVATIONS - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS ASSIGNED TO NATURAL DELIVERY | N | 29a | 29a | 30 | 30 | 30 |
| PREGNANT | N(%) | 28( 96.6) | 27( 93.1) | 30(100.0) | 29( 96.7) | 29( 96.7) |
| DELIVERED A LITTER | N(%) | 28(100.0) | 27(100.0) | 29( 96.7) | 29(100.0) | 29(100.0) |
| DURATION OF GESTATION b | MEAN±S.D. | 22.6 ± 0.5 | 22.5 ± 0.5 | 22.8 ± 0.5 | 22.6 ± 0.6 [ 27]c | 22.7 ± 0.5 [ 28]c |
| IMPLANTATION SITES | N | 428 | 421 | 442 | 453 | 445 |
| PER DELIVERED LITTER | MEAN±S.D. | 15.3 ± 1.9 | 15.6 ± 2.1 | 15.2 ± 2.3 | 15.6 ± 2.0 | 15.3 ± 2.0 |
| DAMS WITH STILLBORN PUPS | N(%) | 3( 10.7) | 4( 14.8) | 5( 17.2) | 3( 10.3) | 4( 13.8) |
| DAMS WITH NO LIVEBORN PUPS | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) |
| GESTATION INDEX d | % | 100.0 | 100.0 | 96.7 | 100.0 | 100.0 |
| | N/N | 28/ 28 | 27/ 27 | 29/ 30 | 29/ 29 | 29/ 29 |
| DAMS WITH ALL PUPS DYING DAYS 1-4 POSTPARTUM | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 1( 3.4) |
| DAMS WITH ALL PUPS DYING DAYS 5-21 POSTPARTUM | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) |

[ ] = NUMBER OF VALUES AVERAGED
a. Excludes rats that were moribund sacrificed prior to cohabitation.
b. Calculated as the time (in days) elapsed between confirmed mating (arbitrarily defined as day 0) and the time (in days) the first pup was delivered.
c. Excludes values for rats that did not have a confirmed mating date.
d. Number of rats with live offspring/number of pregnant rats.

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TABLE C20 (PAGE 1): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS | N | 28 | 27 | 29 | 29 | 29 |
| PUPS DELIVERED (TOTAL) | N | 402 | 395 | 393 | 404 | 394 |
| | MEAN±S.D. | 14.4 ± 2.1 | 14.6 ± 2.2 | 13.6 ± 3.6 | 13.9 ± 3.0 | 13.6 ± 3.3 |
| LIVEBORN | MEAN±S.D. | 14.2 ± 2.2 | 14.2 ± 2.6 | 13.4 ± 3.6 | 13.8 ± 3.0 | 13.4 ± 3.3 |
| | N(%) | 397( 98.8) | 384( 97.2) | 388( 98.7) | 400( 99.0) | 388( 98.5) |
| STILLBORN | MEAN±S.D. | 0.1 ± 0.3 | 0.4 ± 1.4 | 0.2 ± 0.4 | 0.1 ± 0.4 | 0.2 ± 0.6 |
| | N(%) | 3( 0.7) | 10( 2.5) | 5( 1.3) | 4( 1.0) | 6( 1.5) |
| UNKNOWN VITAL STATUS | N | 2 | 1 | 0 | 0 | 0 |
| PUPS FOUND DEAD OR PRESUMED CANNIBALIZED | | | | | | |
| DAY 1 | N/N(%) | 2/397( 0.5) | 2/384( 0.5) | 3/388( 0.8) | 0/400( 0.0) | 3/388( 0.8) |
| DAYS 2- 5 | N/N(%) | 7/395( 1.8) | 6/382( 1.6) | 7/385( 1.8) | 5/400( 1.2) | 11/385( 2.8) |
| DAYS 6- 8 | N/N(%) | 1/388( 0.2) | 2/376( 0.5) | 5/378( 1.3)* | 2/395( 0.5) | 10/374( 2.7)** |
| DAYS 9-15 | N/N(%) | 0/375( 0.0)a | 1/362( 0.3)b | 1/373( 0.3) | 3/393( 0.8) | 2/364( 0.5) |
| DAYS 16-22 | N/N(%) | 0/375( 0.0)a | 0/361( 0.0)b | 1/372( 0.3) | 0/390( 0.0) | 0/362( 0.0) |
| VIABILITY INDEX c | % | 97.7 | 98.2 | 97.4 | 98.8 | 96.9 |
| | N/N | 388/397 | 377/384 | 378/388 | 395/400 | 376/388 |
| LACTATION INDEX d | % | 99.7 | 98.9 | 98.1* | 98.7 | 96.3** |
| | N/N | 375/376a | 361/365b | 371/378 | 390/395 | 362/376 |

DAY(S) = DAY(S) POSTPARTUM
a. Excludes litter 13822; all pups were sacrificed due to sacrifice of dam.
b. Excludes litter 13852; all pups were sacrificed due to sacrifice of dam.
c. Number of live pups on day 5 postpartum/Number of liveborn pups on day 1 postpartum.
d. Number of live pups on day 22 postpartum/Number of live pups on day 5 postpartum.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE C20 (PAGE 2): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS | N | 28 | 27 | 29 | 29 | 29 |
| SURVIVING PUPS/LITTER a | | | | | | |
| DAY 1 b | MEAN±S.D. | 14.2 ± 2.2 | 14.2 ± 2.6 | 13.4 ± 3.6 | 13.8 ± 3.0 | 13.4 ± 3.3 |
| DAY 5 | MEAN±S.D. | 13.8 ± 2.1 | 13.9 ± 2.5 | 13.0 ± 3.4 | 13.6 ± 2.8 | 12.9 ± 3.7 |
| DAY 8 | MEAN±S.D. | 13.9 ± 2.0 [ 27]c | 13.8 ± 2.5 | 12.9 ± 3.4 | 13.6 ± 2.8 | 12.6 ± 3.6 |
| DAY 15 | MEAN±S.D. | 13.9 ± 2.0 [ 27]c | 13.9 ± 2.5 [ 26]c | 12.8 ± 3.3 | 13.4 ± 2.8 | 12.5 ± 3.6 |
| DAY 22 | MEAN±S.D. | 13.9 ± 2.0 [ 27]c | 13.9 ± 2.5 [ 26]c | 12.8 ± 3.4 | 13.4 ± 2.8 | 12.5 ± 3.6 |
| PERCENT MALE PUPS PER NUMBER OF PUPS SEXED | | | | | | |
| DAY 1 b | MEAN±S.D. | 46.9 ± 13.2 | 52.2 ± 13.6 | 48.6 ± 17.5 | 47.1 ± 10.2 | 49.9 ± 16.9 |
| DAY 5 | MEAN±S.D. | 47.0 ± 13.9 | 53.1 ± 13.3 | 49.1 ± 17.6 | 47.1 ± 10.2 | 52.4 ± 17.2 [ 28]d |
| DAY 8 | MEAN±S.D. | 47.8 ± 13.4 [ 27]c | 53.0 ± 13.3 | 49.3 ± 17.4 | 47.3 ± 10.1 | 52.4 ± 17.3 [ 28]d |
| DAY 15 | MEAN±S.D. | 47.8 ± 13.4 [ 27]c | 52.6 ± 13.2 [ 26]c | 49.2 ± 17.5 | 47.4 ± 10.1 | 52.2 ± 17.8 [ 28]d |
| DAY 22 | MEAN±S.D. | 47.8 ± 13.4 [ 27]c | 52.6 ± 13.2 [ 26]c | 49.2 ± 17.4 | 47.4 ± 10.1 | 52.2 ± 17.8 [ 28]d |

DAY = DAY POSTPARTUM
[ ] = NUMBER OF VALUES AVERAGED
a. Average number of live pups per litter, including litters with no surviving pups.
b. Includes pups born alive, found dead on day 1 postpartum.
c. Excludes litters in which the dam was sacrificed.
d. Excludes litter 13947, which had no surviving pups on day 1 of lactation.

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TABLE C20 (PAGE 3): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - P GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS | N | 28 | 27 | 29 | 29 | 29 |
| LIVE LITTER SIZE AT WEIGHING | | | | | | |
| DAY 1 | MEAN±S.D. | 14.1 ± 2.2 | 14.1 ± 2.7 | 13.3 ± 3.6 | 13.8 ± 3.0 | 13.8 ± 2.5 [ 28]a |
| DAY 5 | MEAN±S.D. | 13.8 ± 2.1 | 13.9 ± 2.5 | 13.0 ± 3.4 | 13.6 ± 2.8 | 13.4 ± 2.8 [ 28]a |
| DAY 8 | MEAN±S.D. | 13.9 ± 2.0 [ 27]b | 13.8 ± 2.5 | 12.9 ± 3.4 | 13.6 ± 2.9 | 13.0 ± 2.7 [ 28]a |
| DAY 15 | MEAN±S.D. | 13.9 ± 2.0 [ 27]b | 13.9 ± 2.5 [ 26]b | 12.8 ± 3.3 | 13.4 ± 2.8 | 12.9 ± 2.8 [ 28]a |
| DAY 22 | MEAN±S.D. | 13.9 ± 2.0 [ 27]b | 13.9 ± 2.5 [ 26]b | 12.8 ± 3.4 | 13.4 ± 2.8 | 12.9 ± 2.8 [ 28]a |
| PUP WEIGHT/LITTER (GRAMS) | | | | | | |
| DAY 1 | MEAN±S.D. | 6.3 ± 0.5 | 6.0 ± 0.4* | 6.2 ± 0.5 | 6.2 ± 0.4 | 5.7 ± 0.5** [ 28]a |
| DAY 5 | MEAN±S.D. | 9.4 ± 1.3 | 8.8 ± 0.8 | 9.5 ± 1.5 | 9.3 ± 0.9 | 8.5 ± 1.3** [ 28]a |
| DAY 8 | MEAN±S.D. | 13.3 ± 2.0 [ 27]b | 12.7 ± 1.3 | 13.5 ± 2.2 | 13.0 ± 1.6 | 11.9 ± 2.1** [ 28]a |
| DAY 15 | MEAN±S.D. | 25.0 ± 4.0 [ 27]b | 24.2 ± 2.8 [ 26]b | 26.4 ± 4.7 | 24.8 ± 4.0 | 22.9 ± 4.3 [ 28]a |
| DAY 22 | MEAN±S.D. | 37.4 ± 6.5 [ 27]b | 36.7 ± 5.5 [ 26]b | 39.7 ± 8.3 | 38.8 ± 6.1 | 35.7 ± 7.0 [ 28]a |

DAY = DAY POSTPARTUM
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes litter 13947, which had no surviving pups on day 1 of lactation.
b. Excludes litters in which the dam was sacrificed.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE C21 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - SUMMARY - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED (N) | | 28 | 27 | 29 | 29 | 29 |
| TRANSIENT CLINICAL OBSERVATIONS: a | | TOTAL FREQUENCY (DAYS X PUPS)/LITTERS WITH OBSERVATIONS | | | | |
| COLD TO TOUCH | N/N | 22/5 | 5/4 | 29/5 | 3/2 | 81/4 |
| BRUISE b | N/N | 0/0 | 0/0 | 0/0 | 6/1 | 12/4** |
| NO MILK IN STOMACH | N/N | 1/1 | 0/0 | 0/0 | 3/2 | 2/2 |
| UMBILICAL HERNIA | N/N | 0/0 | 2/1 | 0/0 | 1/1 | 14/2 |
| PALE | N/N | 0/0 | 0/0 | 0/0 | 1/1 | 1/1 |
| LEFT FORELIMB OR MOUTH: MASS | N/N | 0/0 | 2/1 | 0/0 | 0/0 | 11/1 |
| NOT NESTING | N/N | 3/1 | 0/0 | 0/0 | 1/1 | 0/0 |
| BACK: SCAB | N/N | 0/0 | 0/0 | 0/0 | 1/1 | 0/0 |
| RED PERIANAL SUBSTANCE | N/N | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| NOT NURSING | N/N | 3/1 | 0/0 | 0/0 | 0/0 | 0/0 |
| PERSISTENT CLINICAL OBSERVATIONS: a | | TOTAL FREQUENCY (DAYS X PUPS)/LITTERS WITH OBSERVATIONS | | | | |
| TIP OF TAIL MISSING | N/N | 0/0 | 18/1 | 2/1 | 22/1 | 0/0 |
| LEFT EYE: TRAUMATIZED CORNEA | N/N | 0/0 | 0/0 | 0/0 | 2/1 | 0/0 |
| TIP OF TAIL BLACK | N/N | 0/0 | 0/0 | 20/1 | 0/0 | 0/0 |
| HINDLIMBS ROTATED INWARD | N/N | 0/0 | 22/1 | 0/0 | 0/0 | 0/0 |
| NO TAIL PRESENT | N/N | 0/0 | 22/1 | 0/0 | 0/0 | 0/0 |

STATISTICAL ANALYSES WERE RESTRICTED TO THE NUMBER OF LITTERS WITH OBSERVATIONS.
a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Located on the head, back, chest and/or lower midline.
** Significantly different from the vehicle control group value ($p \leq 0.01$).

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TABLE C22 (PAGE 1): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - SUMMARY - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 28 | 27 | 28 | 28 | 29 |
| TOTAL PUPS STILLBORN OR FOUND DEAD a,b | N | 6 | 8 | 10 | 8 | 17 |
| STILLBORN | N | 3 | 1 | 5 | 4 | 6 |
| FOUND DEAD | N | 3 | 7 | 5 | 4 | 11 |
| NO MILK IN STOMACH c | N(%) | 2( 66.7) | 2( 28.6) | 0( 0.0) | 2( 50.0) | 5( 45.4) |
| PUPS SACRIFICED AND NECROPSIED ON DAYS 8, 11 AND 22 POSTPARTUM b | | | | | | |
| LITTERS EVALUATED | N | 28 | 27 | 28 | 28 | 28 |
| PUPS EVALUATED | N | 163 | 156 | 148 | 161 | 145 |
| APPEARED NORMAL | | | | | | |
| LITTER INCIDENCE | N(%) | 28(100.0) | 27(100.0) | 28(100.0) | 28(100.0) | 27( 96.4) |
| PUP INCIDENCE | N(%) | 163(100.0) | 156(100.0) | 148(100.0) | 161(100.0) | 144( 99.3) |
| KIDNEYS: | | | | | | |
| RIGHT, PELVIS, MODERATE DILATION | | | | | | |
| LITTER INCIDENCE | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 1( 3.6) |
| PUP INCIDENCE | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 1( 0.7) |

a. Restricted to pups in which complete necropsies were performed. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation.
b. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.
c. Analysis restricted to pups found dead and necropsied.



ARGUS 418-020

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TABLE C23 (PAGE 1): PUP ORGAN WEIGHTS - SUMMARY - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 27 | 26 | 28 | 28 | 28 |
| TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 36.84 ± 6.61 [ 25]a | 35.52 ± 5.41 [ 22]a | 39.21 ± 8.24 [ 26]a | 36.68 ± 5.84 [ 24]a | 34.25 ± 6.60 [ 22]a |
| MALE PUPS | MEAN±S.D. | 38.26 ± 6.52 [ 24]a,b | 36.82 ± 5.08 [ 22]a | 40.01 ± 8.36 [ 22]a,b | 37.78 ± 6.82 [ 24]a | 35.53 ± 6.79 [ 21]a |
| FEMALE PUPS | MEAN±S.D. | 35.63 ± 7.11 [ 25]a | 34.23 ± 6.42 [ 22]a | 37.92 ± 7.73 [ 24]a,c | 35.59 ± 5.25 [ 24]a | 33.22 ± 7.23 [ 21]a,c |
| BRAIN | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 1.40 ± 0.10 | 1.43 ± 0.10 | 1.42 ± 0.11 | 1.40 ± 0.09 | 1.38 ± 0.12 |
| MALE PUPS | MEAN±S.D. | 1.42 ± 0.11 [ 26]b | 1.45 ± 0.12 | 1.45 ± 0.13 [ 24]b | 1.42 ± 0.12 | 1.40 ± 0.13 [ 26]b |
| FEMALE PUPS | MEAN±S.D. | 1.38 ± 0.12 | 1.41 ± 0.10 | 1.40 ± 0.11 [ 26]c | 1.38 ± 0.09 | 1.36 ± 0.11 [ 27]c |
| SPLEEN | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.14 ± 0.05 | 0.12 ± 0.03 | 0.13 ± 0.05 | 0.14 ± 0.04 | 0.12 ± 0.04 |
| MALE PUPS | MEAN±S.D. | 0.15 ± 0.06 [ 26]b | 0.12 ± 0.04 | 0.13 ± 0.06 [ 24]b | 0.13 ± 0.05 | 0.11 ± 0.04 [ 26]b |
| FEMALE PUPS | MEAN±S.D. | 0.13 ± 0.05 | 0.12 ± 0.04 | 0.13 ± 0.04 [ 26]c | 0.14 ± 0.05 | 0.12 ± 0.04 [ 27]c |
| THYMUS | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.16 ± 0.05 | 0.16 ± 0.04 | 0.14 ± 0.05 | 0.17 ± 0.05 | 0.14 ± 0.05 |
| MALE PUPS | MEAN±S.D. | 0.16 ± 0.05 [ 26]b | 0.16 ± 0.04 | 0.14 ± 0.05 [ 24]b | 0.17 ± 0.05 | 0.14 ± 0.05 [ 26]b |
| FEMALE PUPS | MEAN±S.D. | 0.16 ± 0.06 | 0.15 ± 0.05 | 0.14 ± 0.04 [ 26]c | 0.16 ± 0.05 | 0.14 ± 0.05 [ 27]c |

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for pups in which the terminal body weight could not be determined because pup identification was not recorded or appeared incorrectly recorded.
b. Excludes values for litter(s) that had no male pups examined.
c. Excludes values for litter(s) that had no female pups examined.

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TABLE C23 (PAGE 2): PUP ORGAN WEIGHTS - SUMMARY - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 27 | 26 | 28 | 28 | 28 |
| INCLUDED IN ANALYSES | N | 25a | 22a | 26a | 24a | 22a |
| RATIOS (%) OF BRAIN TO TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 3.93 ± 0.64 | 4.07 ± 0.43 | 3.77 ± 0.61 | 3.88 ± 0.48 | 4.11 ± 0.62 |
| MALE PUPS | MEAN±S.D. | 3.83 ± 0.63 [ 24]b | 3.95 ± 0.36 | 3.75 ± 0.56 [ 22]b | 3.82 ± 0.50 | 4.00 ± 0.51 [ 21]b |
| FEMALE PUPS | MEAN±S.D. | 4.02 ± 0.70 | 4.18 ± 0.59 | 3.84 ± 0.65 [ 24]c | 3.94 ± 0.58 | 4.23 ± 0.86 [ 21]c |
| RATIOS (%) OF SPLEEN TO TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.38 ± 0.11 | 0.33 ± 0.07 | 0.33 ± 0.10 | 0.36 ± 0.09 | 0.33 ± 0.06 |
| MALE PUPS | MEAN±S.D. | 0.40 ± 0.13 [ 24]b | 0.33 ± 0.09 | 0.31 ± 0.11 [ 22]b | 0.35 ± 0.11 | 0.31 ± 0.08 [ 21]b |
| FEMALE PUPS | MEAN±S.D. | 0.37 ± 0.11 | 0.33 ± 0.09 | 0.34 ± 0.10 [ 24]c | 0.38 ± 0.10 | 0.34 ± 0.07 [ 21]c |
| RATIOS (%) OF THYMUS TO TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.44 ± 0.12 | 0.42 ± 0.07 | 0.36 ± 0.09* | 0.45 ± 0.12 | 0.39 ± 0.09 |
| MALE PUPS | MEAN±S.D. | 0.42 ± 0.11 [ 24]b | 0.42 ± 0.09 | 0.35 ± 0.09 [ 22]b | 0.46 ± 0.13 | 0.37 ± 0.11 [ 21]b |
| FEMALE PUPS | MEAN±S.D. | 0.46 ± 0.16 | 0.42 ± 0.10 | 0.37 ± 0.10 [ 24]c | 0.45 ± 0.13 | 0.41 ± 0.10 [ 21]c |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for pups in which the terminal body weight could not be determined because pup identification was not recorded or appeared incorrectly recorded.

b. Excludes values for litter(s) that had no male pups examined.

c. Excludes values for litter(s) that had no female pups examined.

* Significantly different from the Group I value ($p \leq 0.05$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C23 (PAGE 3): PUP ORGAN WEIGHTS - SUMMARY - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 27 | 26 | 28 | 28 | 28 |
| RATIOS (%) OF SPLEEN TO BRAIN WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 9.74 ± 3.30 | 8.34 ± 2.16 | 8.98 ± 3.17 | 9.64 ± 2.74 | 8.59 ± 2.48 |
| MALE PUPS | MEAN±S.D. | 10.42 ± 4.21 [ 26]a | 8.60 ± 2.60 | 8.62 ± 3.75 [ 24]a | 9.36 ± 3.05 | 8.02 ± 2.41 [ 26]a |
| FEMALE PUPS | MEAN±S.D. | 9.26 ± 2.95 | 8.08 ± 2.74 | 8.94 ± 2.68 [ 26]b | 9.91 ± 3.04 | 8.83 ± 2.50 [ 27]b |
| RATIOS (%) OF THYMUS TO BRAIN WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 11.17 ± 3.28 | 10.80 ± 2.35 | 9.84 ± 2.94 | 11.88 ± 3.33 | 9.82 ± 2.86 |
| MALE PUPS | MEAN±S.D. | 11.02 ± 3.45 [ 26]a | 10.95 ± 2.60 | 9.62 ± 3.24 [ 24]a | 12.23 ± 3.71 | 9.46 ± 3.22 [ 26]a |
| FEMALE PUPS | MEAN±S.D. | 11.46 ± 3.69 | 10.66 ± 3.07 | 9.92 ± 2.82 [ 26]b | 11.53 ± 3.45 | 10.06 ± 3.02 [ 27]b |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for litter(s) that had no male pups examined.
b. Excludes values for litter(s) that had no female pups examined.

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TABLE C24 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13801 | DS( 48- 56) | LOCALIZED ALOPECIA: LIMBS |
| | DS( 59- 72) | LOCALIZED ALOPECIA: LIMBS |
| | DG( 0- 20) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 13802 | DL( 5 ) | SOFT OR LIQUID FECES |
| | DL( 14 ) | SOFT OR LIQUID FECES |
| 13803 | | NO ADVERSE FINDINGS |
| 13804 | DS( 68 ) | CHROMORHINORRHEA a |
| | DS( 68 ) | CHROMODACRYORRHEA a |
| | DS( 68 ) | PALATE: BROKEN a |
| | DS( 68 ) | SWOLLEN SNOUT |
| | DS( 68 ) | INCISORS: MISALIGNED |
| | DS( 68 ) | MORIBUND SACRIFICED |
| 13805 | | NO ADVERSE FINDINGS |
| 13806 | DS( 15- 17) | INCISORS: MISSING/BROKEN |
| | DL( 20- 21) | LOCALIZED ALOPECIA: LIMBS |
| 13807 | | NO ADVERSE FINDINGS |
| 13808 | DS( 37- 45) | INCISORS: MISSING/BROKEN |
| 13809 | | NO ADVERSE FINDINGS |
| 13810 | DS( 8- 71) | LOCALIZED ALOPECIA: LIMBS |
| | DG( 0 ) | LOCALIZED ALOPECIA: LIMBS |
| 13811 | | NO ADVERSE FINDINGS |
| 13812 | | NO ADVERSE FINDINGS |
| 13813 | | NO ADVERSE FINDINGS |
| 13814 | DL( 18- 22) | RIGHT EAR: SWOLLEN a |
| 13815 | | NO ADVERSE FINDINGS |
| 13816 | DL( 9 ) | SOFT OR LIQUID FECES |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13817 | | NO ADVERSE FINDINGS |
| 13818 | DL( 12 ) | SOFT OR LIQUID FECES |
| | DL( 14 ) | SOFT OR LIQUID FECES |
| 13819 | | NO ADVERSE FINDINGS |
| 13820 | DG( 3- 21) | CHROMODACRYORRHEA |
| | DG( 3- 21) | INCISORS: MISALIGNED |
| | DL( 1- 22) | CHROMODACRYORRHEA a |
| | DL( 1- 22) | INCISORS: MISALIGNED a |
| 13821 | DL( 11- 12) | SOFT OR LIQUID FECES |
| 13822 | DS( 15- 16) | LEFT FORELIMB: SCAB (0.5 CM X 0.5 CM) |
| | DS( 22- 26) | RIGHT FORELIMB: SCAB (0.2 CM X 0.2 CM) |
| | DL( 8 ) | SACRIFICED b |
| 13823 | | NO ADVERSE FINDINGS |
| 13824 | DL( 14 ) | SOFT OR LIQUID FECES |
| 13825 | DG( 4- 21) | BOTH EARS: SWOLLEN |
| | DL( 1- 22) | BOTH EARS: SWOLLEN a |
| 13826 | | NO ADVERSE FINDINGS |
| 13827 | DG( 3- 6) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 13- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 13828 | | NO ADVERSE FINDINGS |
| 13829 | | NO ADVERSE FINDINGS |
| 13830 | | NO ADVERSE FINDINGS |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Observation confirmed at necropsy.

b. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13831 | DS( 40- 45) | INCISORS: MISSING/BROKEN |
| 13832 | | NO ADVERSE FINDINGS |
| 13833 | | NO ADVERSE FINDINGS |
| 13834 | | NO ADVERSE FINDINGS |
| 13835 | | NO ADVERSE FINDINGS |
| 13836 | DS( 57- 59) | LEFT FORELIMB AND FOREPAW: SWOLLEN a |
| | DS( 59 ) | LEFT FORELIMB: FRACTURED |
| | DS( 59 ) | MORIBUND SACRIFICED |
| 13837 | DL( 17- 21) | LOCALIZED ALOPECIA: LIMBS |
| 13838 | | NO ADVERSE FINDINGS |
| 13839 | DS( 32- 71) | LOCALIZED ALOPECIA: LIMBS |
| | DG( 0- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 13840 | | NO ADVERSE FINDINGS |
| 13841 | | NO ADVERSE FINDINGS |
| 13842 | | NO ADVERSE FINDINGS |
| 13843 | | NO ADVERSE FINDINGS |
| 13844 | | NO ADVERSE FINDINGS |
| 13845 | DL( 12 ) | SOFT OR LIQUID FECES |
| 13846 | | NO ADVERSE FINDINGS |
| 13847 | DS( 1- 5) | CHROMORHINORRHEA |
| | DS( 7 ) | CHROMORHINORRHEA |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13848 | | NO ADVERSE FINDINGS |
| 13849 | | NO ADVERSE FINDINGS |
| 13850 | | NO ADVERSE FINDINGS |
| 13851 | | NO ADVERSE FINDINGS |
| 13852 | DL( 11 ) | SACRIFICED b |
| 13853 | | NO ADVERSE FINDINGS |
| 13854 | | NO ADVERSE FINDINGS |
| 13855 | | NO ADVERSE FINDINGS |
| 13856 | DG( 16- 21) | LOWER MIDLINE: SCAB (0.5 CM X 0.2 CM) |
| | DL( 4- 22) | RIGHT EAR: SWOLLEN a |
| | DL( 8 ) | SOFT OR LIQUID FECES |
| | DL( 12- 13) | SOFT OR LIQUID FECES |
| 13857 | | NO ADVERSE FINDINGS |
| 13858 | | NO ADVERSE FINDINGS |
| 13859 | DS( 30- 32) | SOFT OR LIQUID FECES |
| 13860 | DS( 59- 73) | LOCALIZED ALOPECIA: UNDERSIDE |
| | DG( 0- 13) | LOCALIZED ALOPECIA: UNDERSIDE |
| | DG( 20 ) | LOCALIZED ALOPECIA: UNDERSIDE |
| | DL( 1- 22) | LOCALIZED ALOPECIA: UNDERSIDE a |
| | DL( 8- 22) | LOCALIZED ALOPECIA: LIMBS a |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Observation confirmed at necropsy.

b. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13861 | | NO ADVERSE FINDINGS |
| 13862 | DS( 77-109) | BOTH EARS: SWOLLEN a |
| 13863 | | NO ADVERSE FINDINGS |
| 13864 | | NO ADVERSE FINDINGS |
| 13865 | | NO ADVERSE FINDINGS |
| 13866 | | NO ADVERSE FINDINGS |
| 13867 | | NO ADVERSE FINDINGS |
| 13868 | | NO ADVERSE FINDINGS |
| 13869 | DS( 5 ) | CHROMORHINORRHEA |
| | DS( 73 ) | LEFT HINDPAW: SWOLLEN |
| | DG( 0- 17) | LEFT HINDPAW: SWOLLEN |
| | DG( 4- 6) | LEFT HINDPAW: ABRASION (0.3 CM X 0.2 CM) |
| | DG( 7- 10) | LEFT HINDPAW: SCAB (0.3 CM X 0.2 CM) |
| | DG( 11- 17) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 4- 13) | RIGHT EYE: SWOLLEN |
| | DL( 4- 22) | TRAUMATIZED CORNEA a |
| 13870 | | NO ADVERSE FINDINGS |
| 13871 | | NO ADVERSE FINDINGS |
| 13872 | DL( 7- 8) | TEAT: SWOLLEN |
| 13873 | | NO ADVERSE FINDINGS |
| 13874 | DL( 22 ) | LOCALIZED ALOPECIA: LIMBS a |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13875 | DS( 8- 9) | CHROMORHINORRHEA |
| 13876 | | NO ADVERSE FINDINGS |
| 13877 | | NO ADVERSE FINDINGS |
| 13878 | | NO ADVERSE FINDINGS |
| 13879 | | NO ADVERSE FINDINGS |
| 13880 | | NO ADVERSE FINDINGS |
| 13881 | | NO ADVERSE FINDINGS |
| 13882 | | NO ADVERSE FINDINGS |
| 13883 | DG( 7- 21) | RIGHT EAR: SWOLLEN |
| 13884 | DS( 55- 73) | INCISORS: MISALIGNED |
| | DS( 68- 73) | CHROMODACRYORRHEA |
| | DG( 0- 2) | CHROMODACRYORRHEA |
| | DG( 0- 21) | INCISORS: MISALIGNED |
| | DL( 1- 22) | INCISORS: MISALIGNED a |
| | DL( 7- 22) | INCISORS: MISSING/BROKEN a |
| 13885 | | NO ADVERSE FINDINGS |
| 13886 | DL( 14- 15) | SOFT OR LIQUID FECES |
| 13887 | DS( 2- 3) | CHROMORHINORRHEA |
| 13888 | DL( 22 ) | LOCALIZED ALOPECIA: LIMBS |
| 13889 | | NO ADVERSE FINDINGS |
| 13890 | | NO ADVERSE FINDINGS |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13891 | | NO ADVERSE FINDINGS |
| 13892 | DG( 2 ) | CHROMODACRYORRHEA |
| | DG( 3- 20) | INCISORS: MISSING/BROKEN |
| | DL( 1- 9) | INCISORS: MISSING/BROKEN |
| 13893 | | NO ADVERSE FINDINGS |
| 13894 | DL( 12- 14) | RIGHT AXILLA: MASS (2.5 CM X 1.0 CM X 1.0 CM) |
| 13895 | DG( 19- 20) | INCISORS: MISSING/BROKEN |
| 13896 | DS( 37- 49) | INCISORS: MISSING/BROKEN |
| | DS( 58- 71) | CHROMODACRYORRHEA |
| | DS( 58- 71) | INCISORS: MISALIGNED |
| | DG( 0- 2) | CHROMODACRYORRHEA |
| | DG( 0- 21) | INCISORS: MISALIGNED |
| | DL( 1- 22) | INCISORS: MISALIGNED a |
| | DL( 19- 22) | CHROMODACRYORRHEA a |
| 13897 | DS( 7 ) | CHROMORHINORRHEA |
| | DG( 11 ) | CHROMORHINORRHEA |
| 13898 | DG( 7- 21) | RIGHT EAR: SWOLLEN |
| | DL( 1- 22) | RIGHT EAR: SWOLLEN a |
| 13899 | | NO ADVERSE FINDINGS |
| 13900 | | NO ADVERSE FINDINGS |
| 13901 | DL( 22 ) | RIGHT EAR: SWOLLEN a |
| 13902 | | NO ADVERSE FINDINGS |
| 13903 | | NO ADVERSE FINDINGS |

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a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13904 | DL( 5 ) | SOFT OR LIQUID FECES |
| 13905 | | NO ADVERSE FINDINGS |
| 13906 | DS( 87- 95) | BOTH EARS: SWOLLEN |
| 13907 | DL( 12- 16) | SOFT OR LIQUID FECES |
| 13908 | DG( 14 ) | DRIED, RED PERINASAL SUBSTANCE |
| | DG( 14 ) | BOTH FOREPAWS: DRIED, RED SUBSTANCE |
| | DL( 14- 22) | RIGHT EAR: SWOLLEN a |
| 13909 | | NO ADVERSE FINDINGS |
| 13910 | | NO ADVERSE FINDINGS |
| 13911 | | NO ADVERSE FINDINGS |
| 13912 | DG( 5- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 13913 | | NO ADVERSE FINDINGS |
| 13914 | | NO ADVERSE FINDINGS |
| 13915 | | NO ADVERSE FINDINGS |
| 13916 | DS( 22- 28) | BACK: NUMEROUS SCABS |
| 13917 | | NO ADVERSE FINDINGS |
| 13918 | | NO ADVERSE FINDINGS |
| 13919 | | NO ADVERSE FINDINGS |
| 13920 | | NO ADVERSE FINDINGS |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13921 | | NO ADVERSE FINDINGS |
| 13922 | | NO ADVERSE FINDINGS |
| 13923 | DS( 24 ) | UNGROOMED COAT |
| 13924 | | NO ADVERSE FINDINGS |
| 13925 | | NO ADVERSE FINDINGS |
| 13926 | | NO ADVERSE FINDINGS |
| 13927 | DG( 7- 21) | RIGHT EAR: SWOLLEN |
| | DL( 1- 22) | RIGHT EAR: SWOLLEN a |
| 13928 | DL( 6- 10) | RIGHT EAR: SWOLLEN |
| 13929 | | NO ADVERSE FINDINGS |
| 13930 | DG( 12- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 10) | LOCALIZED ALOPECIA: LIMBS |
| 13931 | | NO ADVERSE FINDINGS |
| 13932 | | NO ADVERSE FINDINGS |
| 13933 | | NO ADVERSE FINDINGS |
| 13934 | DS( 46- 54) | INCISORS: MISSING/BROKEN |
| 13935 | DG( 4- 8) | LOCALIZED ALOPECIA: LIMBS |
| | DG( 14 ) | CHROMORHINORRHEA |
| | DG( 19- 21) | HEAD: MASS (0.7 CM X 0.5 CM X 0.3 CM) |
| | DL( 1- 4) | HEAD: MASS (0.7 CM X 0.5 CM X 0.3 CM) |
| | DL( 5- 11) | HEAD: SCAB (DID NOT EXCEED 0.5 CM X 0.5 CM) |
| | DL( 12- 18) | LOCALIZED ALOPECIA: HEAD |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C24 (PAGE 10): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 13936 | | NO ADVERSE FINDINGS |
| 13937 | | NO ADVERSE FINDINGS |
| 13938 | | NO ADVERSE FINDINGS |
| 13939 | DL( 13- 22) | CHROMODACRYORRHEA a |
| 13940 | DS( 16- 17) | CHROMORHINORRHEA |
| 13941 | | NO ADVERSE FINDINGS |
| 13942 | | NO ADVERSE FINDINGS |
| 13943 | DL( 12- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 13944 | | NO ADVERSE FINDINGS |
| 13945 | | NO ADVERSE FINDINGS |
| 13946 | DG( 9- 21) | BOTH EARS: SWOLLEN |
| | DL( 1- 22) | BOTH EARS: SWOLLEN a |
| 13947 | DL( 1 ) | SACRIFICED DUE TO NO SURVIVING PUPS |
| 13948 | DS( 30- 50) | INCISORS: MISALIGNED |
| | DS( 53- 73) | INCISORS: MISSING/BROKEN |
| | DS( 53- 73) | INCISORS: MISALIGNED |
| | DG( 0- 12) | INCISORS: MISSING/BROKEN |
| | DG( 0- 20) | INCISORS: MISALIGNED |
| | DL( 7- 22) | INCISORS: MISSING/BROKEN a |
| | DL( 9- 22) | INCISORS: MISALIGNED a |
| 13949 | | NO ADVERSE FINDINGS |
| 13950 | DL( 8- 9) | LOCALIZED ALOPECIA: LIMBS |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Observation confirmed at necropsy.



ARGUS 418-020

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C25 (PAGE 1): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP I | | | | 0 MG/KG/DAY | | | | | | |
| 13801 | 131. | 149. | 177. | 187. | 194. | 205. | 217. | 227. | 225. | 238. | 246. |
| 13802 | 154. | 183. | 216. | 240. | 260. | 262. | 282. | 297. | 296. | 293. | 308. |
| 13803 | 154. | 177. | 216. | 227. | 242. | 256. | 272. | 283. | 288. | 301. | 303. |
| 13804 | 155. | 187. | 209. | 227. | 250. | 257. | 263. | 270. | 279. | 281. | b |
| 13805 | 141. | 173. | 194. | 216. | 256. | 240. | 248. | 267. | 275. | 280. | 278. |
| 13806 | 155. | 182. | 200. | 217. | 229. | 236. | 245. | 261. | 258. | 264. | 268. |
| 13807 | 149. | 186. | 215. | 234. | 254. | 264. | 275. | 281. | 290. | 290. | 301. |
| 13808 | 145. | 181. | 204. | 224. | 239. | 250. | 256. | 264. | 266. | 267. | 270. |
| 13809 | 140. | 168. | 190. | 202. | 218. | 226. | 237. | 242. | 245. | 258. | 253. |
| 13810 | 154. | 194. | 225. | 249. | 261. | 265. | 279. | 297. | 296. | 298. | 309. |
| 13811 | 145. | 177. | 200. | 215. | 214. | 236. | 238. | 251. | 266. | 264. | 271. |
| 13812 | 152. | 178. | 195. | 209. | 224. | 233. | 241. | 254. | 262. | 278. | 278. |
| 13813 | 136. | 167. | 187. | 203. | 218. | 230. | 240. | 248. | 255. | 265. | 266. |
| 13814 | 155. | 177. | 204. | 225. | 240. | 251. | 257. | 274. | 274. | 280. | 280. |
| 13815 | 147. | 186. | 214. | 239. | 256. | 264. | 283. | 292. | 308. | 310. | 315. |
| 13816 | 152. | 171. | 197. | 202. | 223. | 216. | 227. | 233. | 239. | 239. | 239. |
| 13817 | 138. | 164. | 187. | 204. | 213. | 222. | 226. | 233. | 227. | 235. | 239. |
| 13818 | 156. | 179. | 212. | 219. | 229. | 236. | 236. | 251. | 253. | 260. | 264. |
| 13819 | 143. | 174. | 195. | 210. | 222. | 232. | 236. | 253. | 256. | 250. | 261. |
| 13820 | 134. | 187. | 216. | 233. | 251. | 265. | 278. | 288. | 293. | 299. | 300. |
| 13821 | 144. | 170. | 196. | 212. | 227. | 240. | 251. | 252. | 261. | 267. | 268. |
| 13822 | 151. | 186. | 215. | 232. | 254. | 265. | 273. | 268. | 278. | 286. | 283. |
| 13823 | 148. | 175. | 199. | 217. | 240. | 254. | 263. | 268. | 279. | 290. | 292. |
| 13824 | 154. | 186. | 216. | 232. | 248. | 262. | 284. | 285. | 296. | 303. | 299. |
| 13825 | 142. | 175. | 193. | 219. | 237. | 254. | 260. | 274. | 283. | 292. | 288. |
| 13826 | 160. | 188. | 216. | 230. | 248. | 258. | 261. | 271. | 288. | 285. | 292. |
| 13827 | 147. | 188. | 214. | 229. | 253. | 266. | 277. | 280. | 290. | 307. | 298. |
| 13828 | 153. | 176. | 196. | 213. | 226. | 233. | 236. | 252. | 263. | 268. | 273. |
| 13829 | 145. | 175. | 185. | 198. | 209. | 221. | 227. | 242. | 249. | 250. | 252. |
| 13830 | 153. | 173. | 188. | 191. | 200. | 211. | 216. | 225. | 229. | 235. | 234. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Rat 13804 was moribund sacrificed on day 68 of study.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C25 (PAGE 2): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | | | | | | |
| 13831 | 139. | 171. | 193. | 214. | 219. | 242. | 260. | 264. | 259. | 266. | 273. |
| 13832 | 159. | 191. | 219. | 241. | 249. | 263. | 263. | 268. | 269. | 283. | 283. |
| 13833 | 147. | 173. | 205. | 216. | 233. | 233. | 249. | 255. | 258. | 260. | 267. |
| 13834 | 150. | 179. | 204. | 221. | 230. | 230. | 249. | 266. | 269. | 267. | 274. |
| 13835 | 142. | 177. | 197. | 212. | 224. | 226. | 242. | 252. | 255. | 256. | 268. |
| 13836 | 155. | 171. | 188. | 197. | 207. | 214. | 217. | 227. | 237. | MORIBUND SACRIFICED ON DAY 59 OF STUDY | |
| 13837 | 144. | 163. | 179. | 195. | 209. | 217. | 219. | 230. | 236. | 244. | 249. |
| 13838 | 149. | 179. | 202. | 222. | 234. | 251. | 256. | 275. | 284. | 300. | 307. |
| 13839 | 138. | 166. | 194. | 210. | 226. | 227. | 242. | 254. | 260. | 263. | 272. |
| 13840 | 156. | 185. | 209. | 225. | 240. | 242. | 252. | 260. | 259. | 264. | 265. |
| 13841 | 150. | 174. | 195. | 215. | 227. | 235. | 245. | 258. | 266. | 272. | 273. |
| 13842 | 153. | 176. | 207. | 213. | 229. | 235. | 243. | 250. | 256. | 258. | 261. |
| 13843 | 140. | 162. | 179. | 185. | 197. | 205. | 214. | 215. | 221. | 227. | 229. |
| 13844 | 157. | 189. | 216. | 234. | 253. | 262. | 266. | 276. | 283. | 286. | 287. |
| 13845 | 153. | 179. | 200. | 207. | 224. | 230. | 234. | 241. | 244. | 251. | 252. |
| 13846 | 149. | 167. | 186. | 198. | 210. | 221. | 230. | 250. | 252. | 256. | 256. |
| 13847 | 141. | 175. | 194. | 211. | 224. | 238. | 249. | 260. | 261. | 274. | 276. |
| 13848 | 156. | 185. | 215. | 227. | 245. | 257. | 273. | 280. | 285. | 292. | 294. |
| 13849 | 146. | 176. | 204. | 220. | 235. | 253. | 268. | 283. | 283. | 297. | 306. |
| 13850 | 147. | 176. | 199. | 212. | 229. | 243. | 252. | 267. | 274. | 278. | 280. |
| 13851 | 141. | 167. | 187. | 202. | 211. | 223. | 234. | 237. | 240. | 251. | 257. |
| 13852 | 149. | 172. | 192. | 211. | 232. | 240. | 246. | 257. | 271. | 283. | 280. |
| 13853 | 145. | 176. | 197. | 214. | 233. | 244. | 249. | 262. | 264. | 271. | 272. |
| 13854 | 152. | 190. | 225. | 249. | 266. | 272. | 276. | 288. | 296. | 302. | 302. |
| 13855 | 143. | 177. | 206. | 233. | 247. | 254. | 257. | 267. | 278. | 278. | 280. |
| 13856 | 151. | 174. | 207. | 227. | 241. | 251. | 256. | 268. | 278. | 284. | 289. |
| 13857 | 145. | 172. | 202. | 215. | 222. | 233. | 245. | 254. | 258. | 267. | 266. |
| 13858 | 151. | 174. | 194. | 210. | 227. | 235. | 238. | 244. | 259. | 265. | 265. |
| 13859 | 144. | 171. | 193. | 204. | 212. | 216. | 229. | 235. | 245. | 241. | 248. |
| 13860 | 148. | 171. | 187. | 195. | 204. | 210. | 223. | 231. | 238. | 251. | 252. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C25 (PAGE 3): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | | | | | | |
| 13861 | 130. | 157. | 177. | 189. | 198. | 206. | 213. | 220. | 232. | 236. | 236. |
| 13862 | 161. | 193. | 227. | 248. | 269. | 279. | 290. | 297. | 302. | 313. | 315. |
| 13863 | 149. | 177. | 207. | 215. | 222. | 228. | 239. | 248. | 251. | 253. | 264. |
| 13864 | 149. | 181. | 207. | 212. | 234. | 238. | 254. | 261. | 261. | 265. | 265. |
| 13865 | 141. | 181. | 202. | 219. | 236. | 245. | 244. | 262. | 282. | 288. | 291. |
| 13866 | 161. | 194. | 223. | 257. | 277. | 283. | 307. | 309. | 325. | 333. | 334. |
| 13867 | 149. | 176. | 199. | 215. | 230. | 237. | 250. | 254. | 256. | 268. | 269. |
| 13868 | 146. | 173. | 203. | 212. | 223. | 238. | 250. | 254. | 264. | 267. | 269. |
| 13869 | 145. | 178. | 210. | 226. | 249. | 261. | 272. | 278. | 290. | 299. | 290. |
| 13870 | 154. | 180. | 200. | 221. | 237. | 248. | 260. | 271. | 277. | 283. | 283. |
| 13871 | 148. | 185. | 209. | 225. | 238. | 236. | 239. | 254. | 256. | 259. | 273. |
| 13872 | 154. | 182. | 207. | 216. | 233. | 242. | 253. | 255. | 266. | 275. | 276. |
| 13873 | 142. | 174. | 192. | 215. | 221. | 231. | 241. | 246. | 252. | 266. | 263. |
| 13874 | 156. | 200. | 234. | 249. | 278. | 294. | 309. | 322. | 321. | 336. | 337. |
| 13875 | 143. | 174. | 190. | 208. | 225. | 232. | 240. | 251. | 263. | 268. | 267. |
| 13876 | 155. | 192. | 220. | 249. | 278. | 293. | 306. | 328. | 338. | 347. | 351. |
| 13877 | 144. | 185. | 214. | 241. | 256. | 270. | 293. | 300. | 308. | 319. | 326. |
| 13878 | 149. | 179. | 205. | 221. | 233. | 241. | 252. | 264. | 267. | 277. | 289. |
| 13879 | 144. | 176. | 195. | 215. | 222. | 239. | 248. | 261. | 270. | 280. | 280. |
| 13880 | 155. | 188. | 216. | 232. | 253. | 266. | 281. | 300. | 314. | 320. | 327. |
| 13881 | 146. | 173. | 192. | 198. | 213. | 211. | 224. | 228. | 240. | 243. | 248. |
| 13882 | 158. | 190. | 220. | 239. | 258. | 272. | 281. | 292. | 292. | 296. | 306. |
| 13883 | 152. | 179. | 197. | 212. | 226. | 234. | 238. | 252. | 262. | 268. | 270. |
| 13884 | 150. | 188. | 216. | 237. | 248. | 261. | 272. | 278. | 286. | 287. | 296. |
| 13885 | 147. | 183. | 208. | 232. | 245. | 253. | 258. | 270. | 281. | 291. | 297. |
| 13886 | 155. | 184. | 210. | 223. | 236. | 245. | 251. | 254. | 260. | 266. | 269. |
| 13887 | 144. | 174. | 200. | 206. | 218. | 230. | 235. | 245. | 246. | 259. | 257. |
| 13888 | 153. | 181. | 209. | 233. | 248. | 255. | 265. | 275. | 286. | 292. | 298. |
| 13889 | 148. | 183. | 210. | 233. | 248. | 256. | 264. | 272. | 283. | 286. | 289. |
| 13890 | 150. | 178. | 208. | 225. | 241. | 253. | 263. | 268. | 275. | 285. | 282. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C25 (PAGE 4): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY | | | | | | |
| 13891 | 136. | 160. | 178. | 190. | 210. | 218. | 227. | 234. | 234. | 246. | 243. |
| 13892 | 160. | 192. | 215. | 233. | 250. | 260. | 268. | 274. | 289. | 292. | 294. |
| 13893 | 155. | 192. | 225. | 249. | 273. | 281. | 286. | 297. | 305. | 312. | 321. |
| 13894 | 152. | 186. | 214. | 237. | 252. | 265. | 283. | 298. | 301. | 303. | 320. |
| 13895 | 141. | 176. | 208. | 223. | 236. | 238. | 248. | 264. | 262. | 265. | 265. |
| 13896 | 157. | 191. | 215. | 229. | 247. | 255. | 270. | 287. | 290. | 277. | 283. |
| 13897 | 151. | 192. | 225. | 231. | 251. | 262. | 276. | 283. | 293. | 304. | 310. |
| 13898 | 159. | 191. | 220. | 248. | 264. | 279. | 287. | 293. | 299. | 304. | 310. |
| 13899 | 140. | 165. | 185. | 203. | 210. | 213. | 223. | 233. | 239. | 239. | 244. |
| 13900 | 155. | 184. | 210. | 222. | 237. | 247. | 255. | 263. | 266. | 272. | 272. |
| 13901 | 150. | 174. | 197. | 214. | 225. | 237. | 250. | 260. | 255. | 262. | 267. |
| 13902 | 145. | 171. | 196. | 212. | 227. | 236. | 253. | 263. | 274. | 281. | 286. |
| 13903 | 140. | 173. | 198. | 216. | 229. | 240. | 251. | 269. | 276. | 285. | 295. |
| 13904 | 151. | 174. | 185. | 201. | 214. | 224. | 232. | 250. | 246. | 261. | 271. |
| 13905 | 149. | 188. | 207. | 230. | 249. | 251. | 267. | 273. | 278. | 280. | 291. |
| 13906 | 153. | 193. | 216. | 231. | 248. | 263. | 271. | 271. | 282. | 294. | 296. |
| 13907 | 140. | 167. | 190. | 206. | 227. | 235. | 241. | 256. | 263. | 262. | 269. |
| 13908 | 155. | 188. | 212. | 240. | 260. | 266. | 274. | 290. | 293. | 301. | 303. |
| 13909 | 147. | 177. | 200. | 211. | 229. | 241. | 249. | 251. | 261. | 268. | 268. |
| 13910 | 151. | 186. | 219. | 249. | 258. | 270. | 282. | 300. | 300. | 315. | 323. |
| 13911 | 145. | 177. | 202. | 213. | 231. | 244. | 252. | 257. | 263. | 271. | 275. |
| 13912 | 159. | 189. | 211. | 234. | 248. | 258. | 263. | 278. | 283. | 285. | 294. |
| 13913 | 142. | 173. | 199. | 215. | 229. | 243. | 252. | 260. | 258. | 270. | 276. |
| 13914 | 153. | 183. | 212. | 235. | 250. | 257. | 264. | 275. | 284. | 291. | 301. |
| 13915 | 148. | 182. | 204. | 218. | 236. | 246. | 246. | 253. | 264. | 277. | 263. |
| 13916 | 156. | 191. | 215. | 234. | 247. | 264. | 278. | 290. | 287. | 304. | 312. |
| 13917 | 146. | 176. | 218. | 227. | 237. | 245. | 251. | 263. | 270. | 276. | 277. |
| 13918 | 154. | 182. | 206. | 215. | 228. | 236. | 245. | 255. | 257. | 261. | 260. |
| 13919 | 143. | 167. | 196. | 215. | 226. | 233. | 244. | 252. | 253. | 262. | 269. |
| 13920 | 150. | 179. | 199. | 212. | 224. | 231. | 247. | 256. | 260. | 271. | 273. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C25 (PAGE 5): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP V | | | | 30 MG/KG/DAY | | | | | | |
| 13921 | 141. | 174. | 203. | 224. | 240. | 244. | 258. | 270. | 276. | 279. | 284. |
| 13922 | 164. | 191. | 204. | 219. | 237. | 239. | 249. | 263. | 258. | 261. | 268. |
| 13923 | 146. | 178. | 202. | 216. | 228. | 238. | 246. | 261. | 269. | 270. | 277. |
| 13924 | 150. | 180. | 203. | 221. | 237. | 243. | 247. | 261. | 272. | 277. | 275. |
| 13925 | 138. | 169. | 189. | 199. | 212. | 220. | 228. | 230. | 232. | 239. | 243. |
| 13926 | 158. | 190. | 216. | 228. | 237. | 238. | 256. | 267. | 272. | 272. | 284. |
| 13927 | 153. | 181. | 207. | 232. | 250. | 246. | 265. | 270. | 274. | 269. | 278. |
| 13928 | 152. | 183. | 200. | 216. | 231. | 245. | 247. | 270. | 274. | 281. | 287. |
| 13929 | 140. | 163. | 185. | 198. | 214. | 220. | 224. | 235. | 240. | 243. | 245. |
| 13930 | 160. | 191. | 222. | 233. | 247. | 253. | 265. | 275. | 280. | 276. | 286. |
| 13931 | 147. | 178. | 205. | 207. | 231. | 238. | 251. | 257. | 262. | 271. | 273. |
| 13932 | 147. | 169. | 195. | 213. | 223. | 224. | 241. | 248. | 252. | 255. | 263. |
| 13933 | 139. | 173. | 195. | 212. | 227. | 223. | 236. | 245. | 244. | 250. | 247. |
| 13934 | 156. | 186. | 206. | 215. | 233. | 247. | 255. | 258. | 265. | 276. | 270. |
| 13935 | 149. | 181. | 207. | 217. | 234. | 239. | 255. | 258. | 266. | 268. | 280. |
| 13936 | 155. | 188. | 210. | 225. | 239. | 245. | 258. | 256. | 265. | 279. | 278. |
| 13937 | 137. | 167. | 189. | 199. | 211. | 222. | 236. | 242. | 244. | 253. | 264. |
| 13938 | 145. | 174. | 199. | 220. | 232. | 235. | 251. | 258. | 261. | 257. | 271. |
| 13939 | 148. | 185. | 218. | 230. | 249. | 250. | 265. | 275. | 284. | 283. | 294. |
| 13940 | 148. | 185. | 210. | 230. | 245. | 254. | 263. | 266. | 272. | 268. | 275. |
| 13941 | 146. | 181. | 204. | 224. | 250. | 258. | 265. | 272. | 281. | 285. | 288. |
| 13942 | 149. | 176. | 195. | 209. | 224. | 235. | 246. | 258. | 266. | 257. | 262. |
| 13943 | 148. | 179. | 194. | 207. | 231. | 235. | 251. | 253. | 267. | 271. | 267. |
| 13944 | 152. | 173. | 202. | 217. | 235. | 234. | 242. | 256. | 263. | 258. | 261. |
| 13945 | 148. | 178. | 206. | 229. | 241. | 248. | 259. | 271. | 275. | 276. | 284. |
| 13946 | 152. | 178. | 200. | 210. | 225. | 233. | 241. | 247. | 249. | 254. | 256. |
| 13947 | 144. | 179. | 201. | 218. | 230. | 234. | 240. | 249. | 250. | 255. | 254. |
| 13948 | 159. | 182. | 208. | 223. | 232. | 249. | 260. | 266. | 267. | 278. | 275. |
| 13949 | 142. | 173. | 205. | 217. | 236. | 244. | 261. | 274. | 284. | 293. | 298. |
| 13950 | 153. | 180. | 200. | 214. | 228. | 235. | 241. | 252. | 256. | 272. | 268. |

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C26 (PAGE 1): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 |
|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP I | | | 0 MG/KG/DAY | | | |
| 13801 P | 238. | 276. | 289. | 310. | 310. | 350. | |
| 13802 P | 306. | 352. | 372. | 380. | 418. | 468. | |
| 13803 P | 319. | 348. | 356. | 378. | 421. | 464. | |
| 13804 - | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | |
| 13805 P | 278. | 324. | 334. | 352. | 396. | 421. | |
| 13806 P | 267. | 305. | 313. | 334. | 379. | 318. | |
| 13807 P | 306. | 324. | 330. | 354. | 408. | | |
| 13808 P | 272. | 293. | 298. | 317. | 361. | 312. | |
| 13809 P | 276. | 297. | 308. | 322. | a | 397. | |
| 13810 P | 300. | 340. | 350. | 365. | 407. | 458. | |
| 13811 NP | 264. | 297. | 301. | 305. | 304. | 302. | 309. |
| 13812 P | 275. | 295. | 307. | 328. | 362. | 409. | |
| 13813 P | 279. | 306. | 328. | 348. | 381. | 421. | |
| 13814 P | 290. | 316. | 325. | 336. | 360. | 416. | |
| 13815 P | 324. | 345. | 366. | 378. | 411. | 438. | |
| 13816 P | 238. | 271. | 284. | 295. | 338. | 388. | |
| 13817 P | 241. | 270. | 281. | 292. | 340. | 389. | |
| 13818 P | 266. | 297. | 312. | 332. | 376. | 425. | |
| 13819 P | 261. | 291. | 300. | 312. | 360. | 347. | |
| 13820 P | 292. | 299. | 319. | 322. | 362. | 412. | |
| 13821 P | 268. | 306. | 308. | 336. | 374. | 417. | |
| 13822 P | 292. | 327. | 330. | 354. | 385. | 421. | |
| 13823 P | 302. | 327. | 342. | 359. | 385. | 415. | |
| 13824 P | 299. | 339. | 350. | 368. | 407. | 449. | |
| 13825 P | 290. | 313. | 327. | 342. | 385. | 422. | |
| 13826 P | 290. | 326. | 325. | 343. | 405. | 437. | |
| 13827 P | 311. | 338. | 339. | 370. | 414. | 459. | |
| 13828 P | 274. | 315. | 320. | 330. | 370. | 410. | |
| 13829 P | 252. | 286. | 291. | 305. | 349. | 389. | |
| 13830 P | 243. | 262. | 273. | 293. | 326. | 293. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value was not recorded.

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TABLE C26 (PAGE 2): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 |
|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP II | | | 1 MG/KG/DAY | | | |
| 13831 P | 283. | 323. | 337. | 354. | 403. | 438. | |
| 13832 P | 294. | 324. | 332. | 348. | 390. | 447. | |
| 13833 P | 271. | 291. | 298. | 306. | 358. | 404. | |
| 13834 P | 275. | 298. | 305. | 315. | 352. | 388. | |
| 13835 P | 272. | 296. | 318. | 329. | 380. | 429. | |
| 13836 - | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | |
| 13837 P | 244. | 275. | 280. | 303. | 341. | 303. | |
| 13838 P | 303. | 333. | 344. | 366. | 428. | 467. | |
| 13839 P | 258. | 292. | 304. | 314. | 356. | 390. | |
| 13840 NP | 260. | 282. | 288. | 286. | 282. | 284. | 287. |
| 13841 P | 278. | 298. | 309. | 322. | 374. | 396. | |
| 13842 P | 262. | 284. | 289. | 303. | 353. | 400. | |
| 13843 P | 224. | 247. | 258. | 282. | 312. | 282. | |
| 13844 P | 287. | 304. | 312. | 322. | 379. | 406. | |
| 13845 P | 245. | 274. | 290. | 307. | 352. | 388. | |
| 13846 P | 253. | 285. | 296. | 311. | 359. | 394. | |
| 13847 P | 271. | 297. | 303. | 313. | 370. | 402. | |
| 13848 P | 295. | 333. | 341. | 354. | 408. | 455. | |
| 13849 P | 298. | 334. | 341. | 359. | 389. | 425. | |
| 13850 P | 276. | 286. | 320. | 331. | 377. | 324. | |
| 13851 NP | 259. | 267. | 270. | 270. | 276. | 275. | 278. |
| 13852 P | 282. | 308. | 324. | 335. | 390. | 413. | |
| 13853 P | 273. | 306. | 316. | 330. | 381. | 303. | |
| 13854 P | 289. | 328. | 342. | 353. | 410. | 455. | |
| 13855 P | 276. | 310. | 326. | 337. | 386. | 339. | |
| 13856 P | 292. | 321. | 332. | 348. | 398. | 417. | |
| 13857 P | 278. | 303. | 310. | 329. | 365. | 417. | |
| 13858 P | 270. | 293. | 296. | 306. | 356. | 309. | |
| 13859 P | 246. | 268. | 278. | 294. | 342. | 378. | |
| 13860 P | 248. | 278. | 282. | 297. | 325. | 335. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C26 (PAGE 3): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 |
|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP III | | | 3 MG/KG/DAY | | | |
| 13861 P | 234. | 257. | 265. | 282. | 312. | 339. | |
| 13862 P | DID NOT DELIVER A LITTER | | | | | | |
| 13863 P | 249. | 281. | 291. | 312. | 362. | 416. | |
| 13864 P | 261. | 296. | 310. | 328. | 340. | 358. | |
| 13865 P | 286. | 339. | 347. | 363. | 423. | 420. | |
| 13866 P | 328. | 358. | 379. | 397. | 438. | 488. | |
| 13867 P | 275. | 296. | 308. | 326. | 369. | 416. | |
| 13868 P | 275. | 302. | 310. | 335. | 373. | 407. | |
| 13869 P | 292. | 304. | 326. | 356. | 389. | 437. | |
| 13870 P | 282. | 307. | 310. | 336. | 373. | 399. | |
| 13871 P | 262. | 294. | 301. | 319. | 385. | 351. | |
| 13872 P | 281. | 311. | 316. | 335. | 379. | 417. | |
| 13873 P | 281. | 289. | 301. | 310. | 370. | 424. | |
| 13874 P | 334. | 366. | 374. | 390. | 438. | 487. | |
| 13875 P | 265. | 301. | 323. | 338. | 399. | 436. | |
| 13876 P | 349. | 385. | 401. | 422. | 474. | 520. | |
| 13877 P | 324. | 357. | 372. | 391. | 433. | 482. | |
| 13878 P | 274. | 293. | 305. | 323. | 358. | 388. | |
| 13879 P | 273. | 304. | 322. | 334. | 376. | 411. | |
| 13880 P | 321. | 364. | 376. | 404. | 450. | 496. | |
| 13881 P | 244. | 277. | 294. | 306. | 348. | 355. | |
| 13882 P | 301. | 335. | 347. | 374. | 403. | 433. | |
| 13883 P | 265. | 302. | 311. | 320. | 372. | 409. | |
| 13884 P | 292. | 314. | 329. | 340. | 371. | 403. | |
| 13885 P | 284. | 320. | 336. | 352. | 374. | 367. | |
| 13886 P | 256. | 287. | 291. | 310. | 358. | 372. | |
| 13887 P | 266. | 290. | 300. | 318. | 352. | 390. | |
| 13888 P | 293. | 320. | 330. | 347. | 403. | 430. | |
| 13889 P | 296. | 325. | 328. | 341. | 389. | 343. | |
| 13890 P | 278. | 320. | 334. | 348. | 394. | 432. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

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TABLE C26 (PAGE 4): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 |
|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP IV | | | 10 MG/KG/DAY | | | |
| 13891 P | 246. | 260. | 273. | 283. | 316. | 348. | |
| 13892 P | 301. | 315. | 325. | 341. | 388. | 413. | |
| 13893 P | 319. | 330. | 337. | 349. | 396. | 427. | |
| 13894 P | 305. | 337. | 355. | 364. | 414. | 448. | |
| 13895 P | 261. | 294. | 302. | 319. | 333. | 379. | |
| 13896 P | 248. | 303. | 322. | 332. | 367. | 403. | |
| 13897 P | 316. | 340. | 351. | 376. | 411. | 449. | |
| 13898 P | 300. | 336. | 355. | 366. | 417. | 457. | |
| 13899 P | 246. | 270. | 271. | 290. | 336. | 372. | |
| 13900 NP | MATING NOT CONFIRMED | | | | | | |
| 13901 P | 274. | 310. | 321. | 339. | 386. | 432. | |
| 13902 P | 277. | 305. | 320. | 328. | 370. | 418. | |
| 13903 P | 293. | 309. | 327. | 339. | 382. | 419. | |
| 13904 P | 254. | 299. | 314. | 339. | 375. | 411. | |
| 13905 P | 289. | 327. | 338. | 352. | 389. | 430. | |
| 13906 P | NO CONFIRMED MATING DATE | | | | | | |
| 13907 P | 257. | 288. | 307. | 325. | 381. | | |
| 13908 P | 302. | 342. | 356. | 364. | 387. | 384. | |
| 13909 P | 273. | 302. | 316. | 328. | 371. | 407. | |
| 13910 P | 309. | 353. | 366. | 383. | 424. | 463. | |
| 13911 P | 269. | 301. | 316. | 320. | 364. | 381. | |
| 13912 P | 284. | 311. | 321. | 333. | 375. | 417. | |
| 13913 P | 271. | 309. | 326. | 334. | 364. | 386. | |
| 13914 P | 296. | 318. | 323. | 356. | 410. | 455. | |
| 13915 P | 269. | 306. | 312. | 325. | 369. | 419. | |
| 13916 P | 307. | 326. | 349. | 370. | 418. | 459. | |
| 13917 P | NO CONFIRMED MATING DATE | | | | | | |
| 13918 P | 268. | 290. | 305. | 319. | 359. | 410. | |
| 13919 P | 250. | 281. | 289. | 305. | 357. | 388. | |
| 13920 P | 267. | 296. | 315. | 328. | 368. | 423. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

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TABLE C26 (PAGE 5): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 |
|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP V | | | 30 MG/KG/DAY | | | |
| 13921 P | 276. | 296. | 310. | 328. | 390. | 428. | |
| 13922 P | 257. | 296. | 303. | 312. | 323. | 282. | |
| 13923 P | 273. | 297. | 304. | 321. | 373. | 316. | |
| 13924 P | 268. | 295. | 298. | 322. | 370. | 421. | |
| 13925 P | 241. | 252. | 265. | 282. | 327. | 358. | |
| 13926 P | 272. | 294. | 317. | 332. | 380. | 333. | |
| 13927 P | 277. | 310. | 319. | 339. | 386. | 412. | |
| 13928 P | 284. | 313. | 317. | 344. | 400. | 439. | |
| 13929 NP | 249. | 252. | 249. | 254. | 243. | 243. | 246. |
| 13930 P | 279. | 311. | 328. | 341. | 367. | 427. | |
| 13931 P | 276. | 302. | 311. | 330. | 375. | 388. | |
| 13932 P | 268. | 287. | 306. | 284. | 345. | 368. | |
| 13933 P | 249. | 268. | 278. | 285. | 329. | 373. | |
| 13934 P | NO CONFIRMED MATING DATE | | | | | | |
| 13935 P | 268. | 291. | 308. | 314. | 357. | 402. | |
| 13936 P | 297. | 309. | 338. | 359. | 400. | 430. | |
| 13937 P | 248. | 268. | 276. | 295. | 347. | 393. | |
| 13938 P | 262. | 286. | 299. | 308. | 372. | 310. | |
| 13939 P | 292. | 307. | 317. | 327. | 374. | 407. | |
| 13940 P | 278. | 310. | 310. | 328. | 370. | 414. | |
| 13941 P | 286. | 315. | 325. | 346. | 398. | 450. | |
| 13942 P | 253. | 292. | 295. | 319. | 373. | 411. | |
| 13943 P | 252. | 299. | 302. | 316. | 360. | 381. | |
| 13944 P | 263. | 289. | 305. | 312. | 337. | 375. | |
| 13945 P | 281. | 309. | 320. | 331. | 376. | 395. | |
| 13946 P | 258. | 281. | 296. | 314. | 349. | 375. | |
| 13947 P | 248. | 278. | 289. | 293. | 304. | 306. | |
| 13948 P | 281. | 297. | 313. | 320. | 324. | 368. | |
| 13949 P | 289. | 316. | 325. | 346. | 393. | 348. | |
| 13950 P | 279. | 296. | 306. | 325. | 373. | 368. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C27 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
|---|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP I | | | 0 MG/KG/DAY | | |
| 13801 | 294. | 287. | 302. | 309. | 322. | 338. |
| 13802 | 365. | 376. | 386. | 390. | 396. | 367. |
| 13803 | 346. | 366. | 372. | 372. | 402. | 366. |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | |
| 13805 | 320. | 336. | 346. | 352. | 370. | 348. |
| 13806 | 302. | 308. | 337. | a | 341. | 340. |
| 13807 | 315. | 344. | 369. | 376. | 376. | 367. |
| 13808 | 302. | 298. | 316. | a | 331. | 286. |
| 13809 | 298. | 316. | 348. | 345. | 354. | 355. |
| 13810 | 355. | 357. | 382. | 389. | 394. | 370. |
| 13811 | NOT PREGNANT | | | | | |
| 13812 | 299. | 322. | 337. | 341. | 354. | 326. |
| 13813 | 316. | 342. | 363. | 390. | 349. | 393. |
| 13814 | 301. | 313. | a | 343. | 351. | 359. |
| 13815 | 340. | 332. | 332. | 356. | 367. | 370. |
| 13816 | 285. | 294. | 292. | 321. | 326. | 320. |
| 13817 | 272. | 271. | a | 293. | 314. | 302. |
| 13818 | 296. | 303. | a | 336. | 328. | 376. |
| 13819 | 299. | 314. | 331. | 327. | 321. | 344. |
| 13820 | 312. | 337. | 343. | 369. | 381. | 317. |
| 13821 | 304. | 334. | 352. | 364. | 344. | 328. |
| 13822 | 327. | 342. | 330. | SACRIFICED ON DAY 8 OF LACTATION | | |
| 13823 | 338. | 348. | 336. | 364. | 353. | 339. |
| 13824 | 330. | 342. | 351. | 379. | 400. | 385. |
| 13825 | 317. | 318. | 342. | 355. | 338. | 350. |
| 13826 | 328. | 349. | 341. | 356. | 380. | 376. |
| 13827 | 351. | 347. | 368. | 394. | 404. | 377. |
| 13828 | 306. | 297. | 328. | 340. | 351. | 309. |
| 13829 | 284. | 280. | 279. | 324. | 312. | 301. |
| 13830 | 265. | 265. | a | 303. | 309. | 306. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C27 (PAGE 2): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
|---|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP II | | | 1 MG/KG/DAY | | |
| 13831 | 321. | 322. | a | 375. | 365. | 361. |
| 13832 | 342. | 329. | 373. | 368. | 380. | 357. |
| 13833 | 293. | 307. | 310. | 343. | 344. | 343. |
| 13834 | 294. | 293. | 304. | 320. | 316. | 310. |
| 13835 | 304. | 326. | 336. | 336. | 360. | 318. |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | |
| 13837 | 289. | 293. | 307. | a | 329. | 359. |
| 13838 | 335. | 331. | 355. | 385. | 382. | 375. |
| 13839 | 301. | 314. | 327. | 335. | 340. | 361. |
| 13840 | NOT PREGNANT | | | | | |
| 13841 | 290. | 320. | 312. | 332. | 362. | 347. |
| 13842 | 293. | 306. | 324. | 338. | 362. | 351. |
| 13843 | 260. | 276. | 287. | 299. | 301. | 317. |
| 13844 | 292. | 315. | 332. | 331. | 361. | 368. |
| 13845 | 283. | 277. | 298. | 305. | 323. | 352. |
| 13846 | 290. | 292. | 297. | 276. | 326. | 336. |
| 13847 | 289. | 296. | 314. | 322. | 338. | 314. |
| 13848 | 319. | 335. | 353. | 385. | 377. | 331. |
| 13849 | 314. | 320. | a | 349. | 319. | 336. |
| 13850 | 320. | 296. | 322. | a | 350. | 341. |
| 13851 | NOT PREGNANT | | | | | |
| 13852 | 322. | 301. | 317. | SACRIFICED ON DAY 11 OF LACTATION | | |
| 13853 | 296. | 309. | 322. | a | 331. | 331. |
| 13854 | 340. | 358. | 375. | 372. | 379. | 381. |
| 13855 | 317. | 338. | 356. | 371. | 379. | 330. |
| 13856 | 318. | 342. | 358. | 347. | 386. | 367. |
| 13857 | 305. | 328. | 335. | 358. | 337. | 295. |
| 13858 | 301. | 288. | 325. | a | 314. | 338. |
| 13859 | 282. | 295. | a | 320. | 323. | 316. |
| 13860 | 277. | 268. | a | 299. | 294. | 293. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C27 (PAGE 3): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
|---|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP III | | | 3 MG/KG/DAY | | |
| 13861 | 275. | 274. | 285. | 276. | 305. | 312. |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | |
| 13863 | 297. | 320. | 336. | 335. | 334. | 352. |
| 13864 | 312. | 310. | 311. | 344. | 334. | 335. |
| 13865 | 340. | 332. | 339. | 344. | 364. | 353. |
| 13866 | 368. | 366. | 392. | 406. | 408. | 401. |
| 13867 | 293. | 302. | 322. | 328. | 355. | 335. |
| 13868 | 304. | 308. | a | 348. | 354. | 356. |
| 13869 | 318. | 337. | 349. | 361. | 372. | 357. |
| 13870 | 319. | 320. | 330. | 327. | 366. | 386. |
| 13871 | 315. | 313. | 343. | 323. | 337. | 366. |
| 13872 | 308. | 322. | 335. | 344. | 353. | 347. |
| 13873 | 301. | 324. | 334. | 355. | 350. | 346. |
| 13874 | 368. | 379. | a | 401. | 403. | 368. |
| 13875 | 309. | 306. | 327. | 332. | 360. | 358. |
| 13876 | 398. | 413. | 427. | 438. | 441. | 399. |
| 13877 | 373. | 376. | a | 388. | 404. | 383. |
| 13878 | 309. | 312. | 335. | 330. | 352. | 352. |
| 13879 | 308. | 329. | 342. | 337. | 360. | 328. |
| 13880 | 368. | 366. | 366. | 374. | 377. | 363. |
| 13881 | 291. | 298. | 313. | 321. | 318. | 323. |
| 13882 | 332. | 341. | a | 381. | 361. | 355. |
| 13883 | 303. | 322. | 343. | 347. | 331. | 342. |
| 13884 | 316. | 335. | 325. | 347. | 363. | 368. |
| 13885 | 323. | 336. | 340. | 351. | 349. | 336. |
| 13886 | 300. | 299. | 338. | 364. | 340. | 322. |
| 13887 | 295. | 309. | 316. | 341. | 322. | 310. |
| 13888 | 327. | 303. | 306. | 339. | 337. | 335. |
| 13889 | 333. | 326. | 352. | a | 367. | 340. |
| 13890 | 312. | 315. | 336. | 356. | 357. | 364. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C27 (PAGE 4): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
|---|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP IV | | | 10 MG/KG/DAY | | |
| 13891 | 264. | 260. | 275. | 285. | 285. | 300. |
| 13892 | 336. | 334. | a | 361. | 364. | 366. |
| 13893 | 319. | 330. | 352. | 380. | 370. | 332. |
| 13894 | 332. | 350. | 371. | 389. | 399. | 386. |
| 13895 | 301. | 310. | 339. | 352. | 354. | 334. |
| 13896 | 311. | 329. | 334. | 347. | 363. | 376. |
| 13897 | 351. | 338. | 359. | 368. | 376. | 361. |
| 13898 | 350. | 369. | 405. | 328. | 408. | 395. |
| 13899 | 268. | 284. | a | 288. | 308. | 320. |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | |
| 13901 | 303. | 313. | 329. | 348. | 344. | 350. |
| 13902 | 304. | 301. | 322. | 314. | 333. | 311. |
| 13903 | 317. | 339. | 349. | 356. | 336. | 318. |
| 13904 | 306. | 316. | 342. | 359. | 364. | 354. |
| 13905 | 321. | 338. | 364. | 350. | 360. | 351. |
| 13906 | 316. | 317. | 337. | 359. | 352. | 355. |
| 13907 | 301. | 308. | 317. | 315. | 318. | 337. |
| 13908 | 343. | 343. | 343. | 359. | 374. | 366. |
| 13909 | 294. | 317. | 331. | 347. | 355. | 356. |
| 13910 | 350. | 361. | 382. | 371. | 381. | 353. |
| 13911 | 294. | 276. | 297. | 320. | 325. | 327. |
| 13912 | 316. | 324. | 337. | 351. | 341. | 355. |
| 13913 | 305. | 321. | a | 336. | 363. | 317. |
| 13914 | 326. | 340. | a | 365. | 371. | 294. |
| 13915 | 281. | 293. | 316. | 346. | 335. | 323. |
| 13916 | 356. | 336. | a | 379. | 371. | 376. |
| 13917 | 312. | 288. | a | 325. | 330. | 327. |
| 13918 | 290. | 309. | 335. | 342. | 336. | 302. |
| 13919 | 285. | 287. | a | 330. | 324. | 329. |
| 13920 | 301. | 315. | a | 340. | 308. | 349. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C27 (PAGE 5): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
|---|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP V | | | 30 MG/KG/DAY | | |
| 13921 | 311. | 310. | 320. | 346. | 368. | 357. |
| 13922 | 274. | 304. | 307. | 318. | 334. | 352. |
| 13923 | 305. | 287. | 303. | a | 325. | 320. |
| 13924 | 291. | 316. | 327. | 342. | 350. | 341. |
| 13925 | 273. | 278. | 298. | 310. | 311. | 318. |
| 13926 | 324. | 320. | 338. | 349. | 366. | 353. |
| 13927 | 289. | 293. | 298. | 308. | 334. | 331. |
| 13928 | 317. | 330. | 346. | 358. | 359. | 368. |
| 13929 | NOT PREGNANT | | | | | |
| 13930 | 318. | 321. | 325. | 341. | 369. | 350. |
| 13931 | 318. | 300. | a | 324. | 339. | 368. |
| 13932 | 275. | 297. | a | 323. | 331. | 357. |
| 13933 | 276. | 285. | 286. | 293. | 328. | 326. |
| 13934 | 303. | 306. | 322. | 327. | 327. | 340. |
| 13935 | 294. | 313. | 308. | 313. | 315. | 318. |
| 13936 | 321. | 337. | 353. | 352. | 360. | 349. |
| 13937 | 286. | 303. | 317. | 311. | 318. | 306. |
| 13938 | 298. | 290. | 301. | 316. | 343. | 343. |
| 13939 | 301. | 308. | 331. | 342. | 370. | 349. |
| 13940 | 304. | 324. | 316. | 352. | 351. | 353. |
| 13941 | 341. | 353. | 352. | 304. | 335. | 383. |
| 13942 | 298. | 313. | 334. | 361. | 345. | 344. |
| 13943 | 308. | 316. | 337. | 350. | 359. | 349. |
| 13944 | 291. | 279. | 302. | 299. | 336. | 341. |
| 13945 | 312. | a | 341. | 351. | 360. | 342. |
| 13946 | 292. | 312. | 327. | 338. | 327. | 353. |
| 13947 | 273. | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | |
| 13948 | 267. | 289. | 322. | 338. | 346. | 323. |
| 13949 | 345. | 342. | 359. | 366. | 374. | 365. |
| 13950 | 304. | 298. | a | 340. | 357. | 361. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value was not recorded.

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TABLE C28 (PAGE 1): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a |
|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP I | | | 0 MG/KG/DAY | | | | | | |
| 13801 | 100. | 188. | 126. | 109. | 120. | 124. | 133. | 119. | 136. | 119. |
| 13802 | 132. | 161. | 168. | 167. | 160. | 177. | 181. | b | 149.c | 137. |
| 13803 | 133. | 158. | 154. | 156. | 159. | 151. | 172. | 150. | 158.c | 145. |
| 13804 | 148. | 148. | 162. | 162. | 161. | 159. | b | 154. | 156. | MORIBUND SACRIFICED ON DAY 68 OF STUDY |
| 13805 | 111. | 122. | 154. | 152. | 150. | 175. | 177. | 158. | 162. | 133. |
| 13806 | 140. | 143. | 147. | 146. | 147. | 154. | 165. | 144. | 147. | 133. |
| 13807 | 133. | 148. | 152. | 151. | 159. | 143. | 158. | 146. | 145. | 124. |
| 13808 | 142. | 158. | 158. | 160. | 158. | 156. | 158. | 144. | 148. | 123. |
| 13809 | 131. | 142. | 143. | 146. | 140. | 149. | 152. | 146. | 151. | 120. |
| 13810 | 142. | 156. | 218.c | 157. | 167. | 179. | 176. | 159. | 174. | 152. |
| 13811 | 125. | 133. | 163. | 140. | 144. | 141. | 168. | 152. | 152. | 119. |
| 13812 | 126. | 130. | 154. | 155. | 147. | 144. | 154. | 141. | 172. | 134. |
| 13813 | 123. | 143. | 142. | 146. | 147. | 160. | 159. | 157. | 216. | 133. |
| 13814 | 125. | 154. | 160. | 145. | 145. | 167. | 169. | 149. | 151. | 135. |
| 13815 | 147. | 156. | 165. | 174. | 171. | 183. | 181. | 177. | 175. | 141. |
| 13816 | 164. | 193. | 126. | 137. | 123. | 130. | 132. | 128. | 130. | 108. |
| 13817 | 121. | 123. | 124. | 123. | 129. | 117. | 115. | 110. | 117. | b |
| 13818 | 132. | 149. | 150. | 141. | 143. | 140. | 149. | 143. | 144. | 117. |
| 13819 | 126. | 137. | 138. | 134. | 147. | 146. | 161. | 136. | 138. | 133. |
| 13820 | 143. | 158. | 165. | b | 184. | 178. | 191. | 173. | 163. | 139. |
| 13821 | 116. | 137. | 137. | 136. | 143. | b | 143. | 137. | 144. | 110. |
| 13822 | 139. | 144. | 152. | 153. | 173. | 150. | 140. | 138. | b | 115. |
| 13823 | 131. | 144. | 145. | 145. | 157. | 149. | 148. | 148. | 150. | 123. |
| 13824 | 130. | 138. | 154. | 152. | 149. | 148. | 202. | 153. | 148. | 118. |
| 13825 | 143. | 144. | 155. | 157. | 166. | 163. | 166. | 163. | 173. | 127. |
| 13826 | 140. | 142. | 139. | 141. | 144. | 140. | 145. | 143. | 139. | 124. |
| 13827 | 138. | 149. | 168. | 173. | 174. | 166. | b | b | 179. | 145. |
| 13828 | 114. | 127. | b | b | 117. | 129. | 147. | 182. | 140. | 130. |
| 13829 | 137. | 133. | 178. | 184. | 144. | 142. | b | 135. | 153. | b |
| 13830 | 124. | 120. | 129. | 139. | 122. | 126. | 138. | 134. | 126. | 106. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.
c. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C28 (PAGE 2): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a |
|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP II | | | 1 MG/KG/DAY | | | | | | |
| 13831 | 139. | 146. | 148. | 149. | 166. | 163. | b | 181. | 166. | 123. |
| 13832 | 134. | 145. | 146. | 144. | 148. | 141. | 141. | 147. | 146. | 119. |
| 13833 | 133. | 145. | 142. | 145. | 146. | 156. | 153. | 150. | 148. | 135. |
| 13834 | 158. | 154. | 172. | 151. | 145. | 165. | 178. | 150. | 146. | 126. |
| 13835 | 145. | 142. | 144. | 140. | 140. | 148. | 146. | 141. | 141. | 125. |
| 13836 | 125. | 134. | 134. | 127. | 134. | b | 146. | 141. | MORIBUND SACRIFICED ON DAY 59 OF STUDY | |
| 13837 | 110. | 117. | 138. | 123. | 123. | 122. | 135. | 129. | 133. | 120. |
| 13838 | 127. | 136. | 141. | 136. | 147. | 145. | 159. | 146. | 158. | 129. |
| 13839 | 129. | 136. | b | 139. | 145. | 149. | 148. | 149. | 151. | 136. |
| 13840 | 141. | 160. | 164. | 149. | 151. | 151. | 149. | 143. | 141. | 114. |
| 13841 | 136. | 142. | 151. | 146. | 142. | 163. | 160. | 144. | 141. | 146. |
| 13842 | 139. | 156. | 142. | 155. | 137. | 160. | 158. | 134. | 135. | 102. |
| 13843 | 131. | 133. | 129. | 121. | 139. | 134. | 138. | 131. | 129. | 112. |
| 13844 | 165. | 176. | 169. | 176. | 172. | 176. | 174. | 169. | 166. | 136. |
| 13845 | 139. | 149. | 144. | 142. | 138. | 142. | 148. | 144. | 147. | 130. |
| 13846 | 118. | 125. | 123. | 125. | 130. | 134. | 143. | 134. | 134. | 106. |
| 13847 | 109. | 128. | 140. | 130. | 137. | 138. | 142. | 136. | 136. | 122. |
| 13848 | 153. | 149. | 147. | 150. | 150. | 147. | 152. | 152. | 144. | 122. |
| 13849 | 134. | 149. | 149. | 153. | 166. | 167. | 166. | 156. | 168. | 141. |
| 13850 | 147. | 203. | 148. | 182. | 174. | 163. | 178. | 190. | 170. | 130. |
| 13851 | 124. | 132. | 146. | 146. | 155. | 150. | 134. | 138. | 142. | 118. |
| 13852 | 120. | 130. | 158. | 140. | 149. | 141. | 157. | 160. | 155. | 132. |
| 13853 | 135. | 141. | 146. | 147. | 148. | 150. | 153. | 145. | 154. | 120. |
| 13854 | 139. | 155. | 206. | 173. | 159. | 156. | 169. | 165. | 151. | 127. |
| 13855 | 139. | 153. | 160. | 157. | 151. | 150. | 154. | 146. | 148. | 129. |
| 13856 | b | 211. | 149. | 159. | 166. | 183. | 164. | 160. | 159. | 175. |
| 13857 | 111. | 146. | 143. | 130. | 150. | 142. | 138. | 138. | 134. | 111. |
| 13858 | 170. | b | 158. | 151. | 147. | 150. | 152. | 156. | 154. | 137. |
| 13859 | 133. | 147. | 139. | 138. | 139. | 142. | 138. | 139. | 149. | 128. |
| 13860 | 125. | 128. | 124. | 125. | 130. | 138. | 139. | 143. | 145. | 114. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C28 (PAGE 3): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a |
|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP III | | | 3 MG/KG/DAY | | | | | | |
| 13861 | 123. | 136. | 131. | 136. | 133. | 136. | 142. | 142. | 145. | 119. |
| 13862 | 149. | 152. | 169. | 177. | 160. | 163. | 168. | 163. | 167. | 144. |
| 13863 | 142. | 154. | 145. | 143. | 149. | 161. | 150. | 145. | 150. | 133. |
| 13864 | 132. | 142. | 139. | 149. | 147. | 159. | 154. | 142. | 153. | 118. |
| 13865 | 148. | 147. | 170. | 159. | 160. | 153. | 175. | 174. | 169. | 142. |
| 13866 | 159. | b | 180. | 191. | 181. | 194. | 184. | 176. | 172. | 142. |
| 13867 | 135. | 140. | 144. | 145. | 141. | 152. | 136. | 144. | 156. | 124. |
| 13868 | 133. | 148. | 176. | 157. | 160. | 167. | 166. | 164. | 152. | 133. |
| 13869 | 145. | 161. | 166. | 194. | 162. | 165. | 173. | 170. | 159. | 129. |
| 13870 | 139. | 155. | 162. | 158. | 160. | 172. | 168. | 167. | 161. | 112. |
| 13871 | 128. | 139. | 143. | 138. | 131. | 133. | 132. | 121. | 129. | 148. |
| 13872 | 136. | 161. | 141. | 144. | 141. | 147. | b | b | 147. | 111. |
| 13873 | 124. | 134. | 124. | 138. | 134. | 138. | 136. | 139. | 145. | 116. |
| 13874 | 152. | 163. | 161. | 170. | 177. | 175. | 178. | 168. | 170. | 146. |
| 13875 | 130. | 154. | 150. | 145. | 152. | 158. | 158. | 153. | 148. | 132. |
| 13876 | 145. | 164. | 173. | 178. | 171. | 196. | 198. | 188. | 166. | 141. |
| 13877 | 150. | 161. | 168. | 162. | 174. | 186. | 167. | 166. | 168. | 142. |
| 13878 | 125. | 145. | 137. | 148. | 153. | 146. | 155. | 145. | 154. | 126. |
| 13879 | 131. | 148. | 147. | 127. | 145. | 143. | 158. | 144. | 146. | 122. |
| 13880 | 143. | 160. | 151. | 162. | 162. | 170. | 186. | 176. | 167. | 137. |
| 13881 | 127. | 120. | 131. | 130. | 115. | 129. | 127. | b | 128. | 104. |
| 13882 | 140. | 153. | 161. | 162. | 171. | 157. | 163. | 146. | 166. | 129. |
| 13883 | 141. | 145. | 147. | 142. | 145. | 149. | 154. | 160. | 154. | 127. |
| 13884 | 158. | 158. | 154. | 161. | 160. | 153. | 153. | 152. | 147. | 121. |
| 13885 | 140. | 141. | 150. | 142. | 156. | 143. | 150. | 157. | 160. | 128. |
| 13886 | 136. | 141. | 142. | 143. | 145. | 137. | 139. | 131. | 138. | 113. |
| 13887 | 135. | 159. | 136. | 137. | 141. | 136. | 144. | 135. | 131. | 110. |
| 13888 | 139. | 159. | 174. | 167. | 154. | 166. | 163. | 166. | 162. | 138. |
| 13889 | 149. | 160. | 162. | 166. | 152. | 158. | 161. | 157. | 157. | 130. |
| 13890 | 149. | 235. | 250.c | 213. | b | 202. | 184. | b | 174. | 144. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.
c. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C28 (PAGE 4): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a |
|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP IV | | | 10 MG/KG/DAY | | | | | | |
| 13891 | 129. | 131. | 165. | b | 147. | 143. | 147. | 139. | 136. | 109. |
| 13892 | 152. | 162. | 179. | 172. | 167. | 167. | 176. | 181. | 162. | 134. |
| 13893 | 155. | 178. | 188. | 193. | 183. | 182. | 180. | 174. | 172. | 144. |
| 13894 | 145. | 163. | 169. | 166. | 174. | 188. | 193. | 228. | 186. | 167. |
| 13895 | 149. | 163. | 161. | 163. | 157. | 153. | 172. | 157. | 155. | 131. |
| 13896 | 139. | 150. | 156. | 159. | 164. | 167. | 180. | 170. | 121. | 118. |
| 13897 | 153. | 166. | 156. | 155. | 166. | 159. | 162. | 158. | 158. | 128. |
| 13898 | 147. | 159. | 167. | 171. | 179. | 171. | 175. | 160. | 158. | 133. |
| 13899 | 131. | 140. | 141. | 135. | 142. | 146. | 146. | 148. | b | 118. |
| 13900 | 145. | 148. | 147. | 151. | 150. | 156. | 151. | 151. | 163. | 120. |
| 13901 | 125. | 134. | 137. | 142. | 147. | 136. | 138. | 131. | 138. | 113. |
| 13902 | 126. | 142. | 138. | 137. | 150. | 154. | 140. | 147. | 162. | b |
| 13903 | 129. | 163. | 141. | 142. | 133. | 149. | 160. | 154. | 158. | 129. |
| 13904 | 116. | 104. | 145. | 110. | 109. | 131. | 141. | 132. | 137. | 115. |
| 13905 | 156. | 178. | 165. | 170. | 159. | 187. | 183. | 172. | 162. | 147. |
| 13906 | 167. | 184. | 177. | 173. | b | 163. | 161. | 167. | 172. | 139. |
| 13907 | 121. | 133. | 149. | 143. | 141. | 137. | 140. | 141. | 128. | 120. |
| 13908 | 133. | 140. | 154. | 156. | 147. | 159. | 169. | 155. | 156. | 129. |
| 13909 | 124. | 147. | 136. | 138. | 133. | 132. | 130. | 138. | 139. | 115. |
| 13910 | 146. | 160. | 170. | 166. | 167. | 165. | b | 180. | 171. | 152. |
| 13911 | 139. | 143. | 150. | 154. | 148. | 142. | 143. | 136. | 128. | 116. |
| 13912 | 144. | 147. | 163. | 159. | 157. | 163. | 168. | 150. | 151. | 128. |
| 13913 | 130. | 152. | 151. | 155. | 157. | 159. | 153. | 144. | 153. | 118. |
| 13914 | 133. | 139. | 159. | 158. | 161. | 157. | 162. | 167. | 166. | 149. |
| 13915 | 146. | 151. | 152. | 156. | 148. | 136. | 141. | 161. | 148. | 110. |
| 13916 | 143. | 174. | 155. | 109. | 188. | 163. | 166. | 156. | 168. | 139. |
| 13917 | 135. | 168. | 158. | 185. | 159. | b | b | b | 151. | 123. |
| 13918 | 134. | 156. | 143. | 122. | 140. | 145. | 141. | 142. | 135. | 108. |
| 13919 | 123. | 138. | 148. | 189. | 150. | 163. | 144. | 136. | 145. | 118. |
| 13920 | 135. | 144. | b | 156. | 144. | 133. | 148. | 147. | 158. | 122. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.

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TABLE C28 (PAGE 5): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAYS | 1- 8 | 8- 15 | 15- 22 | 22- 29 | 29- 36 | 36- 43 | 43- 50 | 50- 57 | 57- 64 | 64- 70a |
|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP V | | | 30 MG/KG/DAY | | | | | | |
| 13921 | 144. | 152. | 155. | 150. | 142. | 157. | 159. | 148. | 147. | 124. |
| 13922 | 154. | 149. | 153. | 161. | 156. | 167. | 153. | 146. | 150. | 127. |
| 13923 | 149. | 164. | 163. | 165. | 167. | 172. | 191. | 191. | 170. | 147. |
| 13924 | 141. | 162. | 162. | 157. | 157. | 156. | 185. | 179. | 165. | 140. |
| 13925 | 128. | 138. | 136. | 132. | 135. | 132. | 130. | 126. | 126. | 104. |
| 13926 | 138. | 146. | 146. | 150. | 149. | 163. | 157. | 149. | 155. | 133. |
| 13927 | 126. | 141. | 151. | 156. | 143. | 153. | 152. | 141. | 140. | 110. |
| 13928 | 160. | 145. | 165. | 130. | 157. | 156. | 169. | 147. | 154. | 129. |
| 13929 | 120. | 131. | 128. | 133. | 138. | 130. | 131. | 132. | 137. | 112. |
| 13930 | 141. | 152. | 149. | 139. | 155. | 160. | 156. | 161. | 149. | 122. |
| 13931 | 138. | 169. | b | b | 140. | 142. | 149. | 140. | 142. | 110. |
| 13932 | 123. | 139. | 137. | 138. | 128. | 144. | 141. | 136. | 136. | 120. |
| 13933 | 154. | 163. | 133. | 143. | 181. | 135. | 139. | 138. | 134. | 100. |
| 13934 | 146. | 155. | 151. | 162. | 178. | 161. | 169. | 163. | 156. | 123. |
| 13935 | 144. | 154. | 148. | 148. | 152. | 142. | 150. | 151. | 143. | 132. |
| 13936 | 141. | 142. | 156. | 150. | 134. | 136. | 135. | 143. | 138. | 118. |
| 13937 | 121. | 123. | 136. | 138. | 133. | 130. | 124. | 125. | 135. | 104. |
| 13938 | 125. | 131. | 142. | 137. | 134. | 143. | 139. | 135. | 131. | 113. |
| 13939 | 144. | 153. | b | 174. | 145. | 150. | 153. | 145. | 138. | 127. |
| 13940 | 134. | 155. | c | 143. | 146. | 144. | 228. | 150. | 136. | 117. |
| 13941 | b | 182. | b | b | 156. | 163. | 150. | b | 153. | 135. |
| 13942 | 134. | 144. | 142. | 141. | 144. | 151. | 160. | 156. | 129. | 120. |
| 13943 | 140. | 134. | 141. | 157. | 140. | 144. | 144. | 167. | 144. | 118. |
| 13944 | 128. | 162. | b | 158. | 142. | 150. | 149. | 141. | 138. | 112. |
| 13945 | 137. | 150. | 166. | 151. | 156. | 169. | 176. | 163. | 160. | 137. |
| 13946 | 125. | 138. | 131. | 153. | b | 145. | 141. | 133. | 132. | 109. |
| 13947 | 134. | 132. | 133. | 136. | 123. | 133. | 129. | 127. | 121. | 95. |
| 13948 | 144. | 149. | 147. | 144. | 140. | 161. | 155. | 151. | 150. | 119. |
| 13949 | 131. | 148. | 149. | 164. | 158. | 163. | 161. | 166. | 162. | 132. |
| 13950 | 149. | 154. | 140. | 141. | 144. | b | 145. | b | 145. | 122. |

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.
c. Value was not recorded.

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TABLE C29 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 | 21 - 25 |
|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP I | | 0 MG/KG/DAY | | | |
| 13801 P | 180. | 82. | 113. | 79. | 82. | |
| 13802 P | 221. | 103. | 135. | 119. | 73. | |
| 13803 P | 187. | 93. | 118. | 110. | 71. | |
| 13804 - | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | |
| 13805 P | 208. | 97. | 134. | 122. | 67. | |
| 13806 P | 207. | 81. | 115. | 110. | | |
| 13807 P | 157. | 66. | 103. | 102. | | |
| 13808 P | 157. | 72. | 108. | 116. | | |
| 13809 P | 173. | 66. | 84. | 91. | 84. | |
| 13810 P | 218. | 97. | 131. | 120. | 79. | |
| 13811 NP | 180. | 74. | 108. | 67. | 55. | 90. |
| 13812 P | 160. | 85. | 119. | 113. | 79. | |
| 13813 P | 207. | 92. | 125. | 117. | 76. | |
| 13814 P | 183. | 79. | 102. | 90. | 74. | |
| 13815 P | 187. | 95. | 117. | 108. | 63. | |
| 13816 P | 164. | 72. | 102. | 102. | 71. | |
| 13817 P | a | 67. | 82. | 94. | 74. | |
| 13818 P | 173. | 76. | 102. | 97. | 75. | |
| 13819 P | 164. | 81. | 98. | 113. | 83. | |
| 13820 P | 133. | 64. | 92. | 100. | 65. | |
| 13821 P | 172. | 76. | 115. | 91. | 65. | |
| 13822 P | 182. | 85. | 114. | 103. | 68. | |
| 13823 P | 180. | 85. | 118. | 106. | 67. | |
| 13824 P | 197. | 89. | 124. | 108. | 61. | |
| 13825 P | 176. | 78. | 112. | 104. | 62. | |
| 13826 P | 168. | 69. | 100. | 102. | 64. | |
| 13827 P | 218. | 96. | 126. | 119. | 76. | |
| 13828 P | 204. | 80. | 113. | 107. | 66. | |
| 13829 P | 176. | 72. | 96. | 94. | 66. | |
| 13830 P | 153. | 68. | 99. | 84. | 58. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

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TABLE C29 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 | 21 - 25 | |
|---|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP II | | | 1 MG/KG/DAY | | | |
| 13831 P | 215. | 94. | 120. | 102. | 74. | | |
| 13832 P | 201. | 81. | a | 107. | 70. | | |
| 13833 P | 185. | 72. | 100. | 114. | 81. | | |
| 13834 P | 177. | 70. | 95. | 99. | 68. | | |
| 13835 P | 221. | 85. | 115. | 113. | 75. | | |
| 13836 - | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | |
| 13837 P | 170. | 70. | 99. | 112. | | | |
| 13838 P | 176. | 83. | 115. | 125. | 82. | | |
| 13839 P | 184. | 79. | 107. | 111. | 71. | | |
| 13840 NP | 154. | 68. | 88. | 77. | 61. | 79. | |
| 13841 P | 162. | 73. | 105. | a | 58. | | |
| 13842 P | 156. | 71. | 100. | 104. | 78. | | |
| 13843 P | 166. | 72. | 107. | 100. | 69. | | |
| 13844 P | 180. | 90. | 109. | 115. | 51. | | |
| 13845 P | 180. | 80. | 112. | 120. | 65. | | |
| 13846 P | 149. | 76. | 97. | 110. | 68. | | |
| 13847 P | 159. | 59. | 78. | 99. | 69. | | |
| 13848 P | 177. | 78. | 96. | 118. | 86. | | |
| 13849 P | 202. | 76. | 111. | 88. | 63. | | |
| 13850 P | 199. | 80. | 115. | 114. | | | |
| 13851 NP | 150. | 61. | 80. | 82. | 50. | 58. | |
| 13852 P | 180. | 80. | 102. | 114. | 70. | | |
| 13853 P | 176. | 77. | 106. | 108. | | | |
| 13854 P | 189. | 89. | 106. | 101. | 85. | | |
| 13855 P | 177. | 84. | 105. | 130. | 73. | | |
| 13856 P | 182. | 79. | 104. | 107. | 69. | | |
| 13857 P | 182. | 74. | 99. | 92. | 56. | | |
| 13858 P | 171. | 77. | 93. | 98. | | | |
| 13859 P | 183. | 68. | 94. | 94. | 63. | | |
| 13860 P | 160. | 68. | 88. | 89. | 55. | | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

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TABLE C29 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 | 21 - 25 |
|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP III | | | 3 MG/KG/DAY | | |
| 13861 P | 140. | 76. | a | 113. | 66. | |
| 13862 P | DID NOT DELIVER A LITTER | | | | | |
| 13863 P | 168. | 82. | 111. | 110. | 79. | |
| 13864 P | a | 89. | 105. | 82. | 69. | |
| 13865 P | 224. | 98. | 125. | 125. | 71. | |
| 13866 P | 194. | 87. | 111. | 101. | 81. | |
| 13867 P | 178. | 77. | 103. | 100. | 80. | |
| 13868 P | a | 84. | 118. | 105. | 70. | |
| 13869 P | 177. | 93. | 128. | 116. | 70. | |
| 13870 P | 173. | 87. | 128. | 136. | 82. | |
| 13871 P | 158. | 72. | 100. | 106. | 74. | |
| 13872 P | 173. | 87. | 112. | 105. | 71. | |
| 13873 P | 157. | 68. | 77. | 95. | 77. | |
| 13874 P | 194. | 91. | 123. | 119. | 83. | |
| 13875 P | 197. | 93. | 123. | 122. | 74. | |
| 13876 P | 193. | 92. | 136. | 121. | 94. | |
| 13877 P | 204. | 99. | 125. | 116. | 91. | |
| 13878 P | 158. | 70. | 101. | 103. | 83. | |
| 13879 P | 170. | 83. | 98. | 110. | 69. | |
| 13880 P | 202. | 91. | 128. | 125. | 73. | |
| 13881 P | 159. | 79. | 94. | 106. | 63. | |
| 13882 P | 214. | 92. | 136. | 113. | 66. | |
| 13883 P | 178. | 76. | 107. | 110. | 74. | |
| 13884 P | 217. | 79. | 103. | 85. | 67. | |
| 13885 P | a | 89. | 120. | 121. | 55. | |
| 13886 P | 155. | 66. | 97. | 104. | 71. | |
| 13887 P | 176. | 80. | 120. | 90. | 68. | |
| 13888 P | 176. | 86. | 120. | 117. | 66. | |
| 13889 P | 196. | 80. | 109. | 114. | | |
| 13890 P | 208. | 87. | 123. | 97. | 74. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C29 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | RAT # | DOSAGE GROUP IV | 0 - 7 DAYS | 7 - 10 DAYS | 10 - 14 DAYS | 14 - 18 DAYS | 18 - 21 DAYS | 21 - 25 DAYS |
|---|---|---|---|---|---|---|---|---|
| | | 10 MG/KG/DAY | | | | | | |
| P | 13891 | | 139. | 72. | 93. | 89. | 64. | |
| P | 13892 | | 168. | 72. | 104. | 110. | 71. | |
| P | 13893 | | 167. | 74. | 97. | 95. | 59. | |
| P | 13894 | | 207. | a | 130. | a | 96. | |
| P | 13895 | | 202. | 82. | 108. | 95. | 57. | |
| P | 13896 | | 186. | 84. | 111. | 107. | 67. | |
| P | 13897 | | 172. | 82. | 115. | 116. | 75. | |
| P | 13898 | | 185. | 99. | a | 117. | 80. | |
| P | 13899 | | 153. | 69. | 87. | 99. | 77. | |
| NP | 13900 | | MATING NOT CONFIRMED | | | | | |
| P | 13901 | | 174. | 70. | 105. | 105. | 73. | |
| P | 13902 | | 165. | 78. | 91. | 83. | 83. | |
| P | 13903 | | 147. | 75. | 99. | 107. | 76. | |
| P | 13904 | | 170. | 81. | 108. | 128. | 71. | |
| P | 13905 | | 207. | 92. | 125. | 107. | 67. | |
| P | 13906 | | NO CONFIRMED MATING DATE | | | | | |
| P | 13907 | | 164. | 74. | 94. | 106. | | |
| P | 13908 | | 193. | 94. | 115. | 112. | 46. | |
| P | 13909 | | 169. | 74. | 90. | 97. | 63. | |
| P | 13910 | | 208. | 97. | 132. | 121. | 77. | |
| P | 13911 | | 163. | 81. | 88. | 93. | 48. | |
| P | 13912 | | 173. | 80. | 106. | 110. | 76. | |
| P | 13913 | | 185. | 94. | 115. | 97. | 64. | |
| P | 13914 | | 170. | 84. | 114. | 108. | 76. | |
| P | 13915 | | 174. | 79. | 99. | 103. | 71. | |
| P | 13916 | | 175. | 78. | 112. | 113. | 83. | |
| P | 13917 | | NO CONFIRMED MATING DATE | | | | | |
| P | 13918 | | 172. | 73. | 102. | 95. | 73. | |
| P | 13919 | | 157. | 72. | 81. | 102. | 68. | |
| P | 13920 | | 173. | 82. | 103. | 101. | 70. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C29 (PAGE 5): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 | 21 - 25 |
|---|---|---|---|---|---|---|
| RAT # | DOSAGE GROUP V | | | 30 MG/KG/DAY | | |
| 13921 P | 164. | 73. | 104. | 115. | 75. | |
| 13922 P | 187. | 87. | 111. | 99. | 35. | |
| 13923 P | 196. | 87. | 95. | 130. | | |
| 13924 P | 196. | 78. | 128. | 111. | 75. | |
| 13925 P | 140. | 63. | 84. | 95. | 66. | |
| 13926 P | 176. | 82. | 116. | 111. | 78. | |
| 13927 P | 176. | 86. | 103. | 101. | 62. | |
| 13928 P | 181. | 74. | 108. | 124. | 77. | |
| 13929 NP | 135. | 58. | 84. | 61. | 48. | 69. |
| 13930 P | 181. | 82. | 113. | 108. | 87. | |
| 13931 P | 176. | 74. | 106. | 115. | 71. | |
| 13932 P | 171. | 80. | 75. | 104. | 72. | |
| 13933 P | 139. | 61. | 86. | 84. | 65. | |
| 13934 P | NO CONFIRMED MATING DATE | | | | | |
| 13935 P | 157. | 72. | 92. | 95. | 67. | |
| 13936 P | 165. | 84. | 119. | 102. | 67. | |
| 13937 P | 134. | 63. | 87. | 98. | 72. | |
| 13938 P | 149. | 70. | 94. | 102. | 71. | |
| 13939 P | 159. | 76. | 89. | 102. | 61. | |
| 13940 P | 169. | 71. | 95. | 88. | 68. | |
| 13941 P | 171. | 85. | 108. | 115. | 90. | |
| 13942 P | 167. | 75. | 106. | 116. | 72. | |
| 13943 P | 185. | 79. | 112. | 110. | 77. | |
| 13944 P | 183. | 84. | 105. | 98. | 80. | |
| 13945 P | 184. | 88. | 107. | 101. | 56. | |
| 13946 P | 164. | 74. | 103. | 88. | 66. | |
| 13947 P | 157. | 75. | 92. | 90. | 53. | |
| 13948 P | 155. | 72. | 96. | 51. | 72. | |
| 13949 P | 177. | 83. | 116. | 113. | 83. | |
| 13950 P | a | 68. | 95. | 97. | 49. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C30 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 13 | 13 - 15a |
|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP I | | | 0 MG/KG/DAY | |
| 13801 | 86. | 126. | 165. | 112. | 143. |
| 13802 | 171. | 163. | 215. | 147. | 138. |
| 13803 | 152. | 187. | 126. | 109. | 141. |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | |
| 13805 | b | b | 207. | 128. | 152. |
| 13806 | 135. | 178. | 229. | 146. | 168. |
| 13807 | 161. | 177. | 208. | 134. | 156. |
| 13808 | 116. | 144. | 188. | 142. | 139. |
| 13809 | 156. | 156. | b | 148. | 140. |
| 13810 | 117. | 167. | 226. | 153. | 157. |
| 13811 | NOT PREGNANT | | | | |
| 13812 | b | 189. | 198. | 132. | 98. |
| 13813 | 173. | 193. | 229. | 46. | 300. |
| 13814 | 130. | 166. | 214. | 164. | 174. |
| 13815 | 101. | 142. | 147. | 133. | 160. |
| 13816 | 148. | 109. | 165. | 118. | b |
| 13817 | 106. | 134. | 160. | 125. | 136. |
| 13818 | 122. | 169. | 180. | 85. | 111. |
| 13819 | 140. | 148. | 164. | 69. | 89. |
| 13820 | 138. | 151. | 214. | 137. | 172. |
| 13821 | 128. | 171. | 220. | 134. | 166. |
| 13822 | b | SACRIFICED ON DAY 8 OF LACTATION | | | |
| 13823 | 122. | 123. | 153. | 96. | 144. |
| 13824 | 145. | 169. | 210. | 143. | 170. |
| 13825 | 101. | 139. | 193. | 150. | 157. |
| 13826 | 141. | 131. | 122. | 119. | 139. |
| 13827 | 117. | 180. | b | 177. | 172. |
| 13828 | 84. | 149. | 184. | 138. | 148. |
| 13829 | 107. | 85. | 156. | 118. | 136. |
| 13830 | 89. | 148. | 165. | 87. | 141. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 15 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C30 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 13 | 13 - 15a |
|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP II | | | 1 MG/KG/DAY | |
| 13831 | 154. | 204. | 222. | 153. | 165. |
| 13832 | 107. | 159. | 169. | 133. | 170. |
| 13833 | 138. | 154. | 219. | 135. | 145. |
| 13834 | 109. | 127. | 181. | 124. | 123. |
| 13835 | 138. | 171. | 212. | 140. | 162. |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | |
| 13837 | 115. | 136. | 164. | 128. | 128. |
| 13838 | 123. | 168. | b | 158. | 173. |
| 13839 | 137. | 167. | 183. | 77. | 121. |
| 13840 | NOT PREGNANT | | | | |
| 13841 | 129. | 112. | 131. | 132. | 151. |
| 13842 | 140. | 143. | 190. | 139. | 137. |
| 13843 | 121. | 128. | 152. | 123. | 131. |
| 13844 | 162. | 168. | 174. | 112. | b |
| 13845 | 107. | 139. | 172. | 138. | 150. |
| 13846 | 116. | 131. | 142. | 117. | 122. |
| 13847 | 104. | 119. | 152. | 107. | 129. |
| 13848 | 133. | 178. | 221. | 135. | 189. |
| 13849 | 103. | 140. | 173. | 120. | 121. |
| 13850 | 152. | 117. | 193. | 139. | 148. |
| 13851 | NOT PREGNANT | | | | |
| 13852 | 100. | 127. | SACRIFICED ON DAY 11 OF LACTATION | | |
| 13853 | 129. | 151. | 194. | 139. | 138. |
| 13854 | 147. | 168. | 172. | 103. | 118. |
| 13855 | 158. | 159. | 205. | 149. | 160. |
| 13856 | 145. | 144. | 121. | 115. | 154. |
| 13857 | 127. | 164. | 201. | 148. | 155. |
| 13858 | 114. | 156. | 205. | 150. | 146. |
| 13859 | 132. | 152. | 102. | 111. | 134. |
| 13860 | 103. | 132. | 154. | 98. | 144. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 15 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C30 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 13 | 13 - 15a |
|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP III | | | 3 MG/KG/DAY | |
| 13861 | 93. | 121. | 141. | 86. | 122. |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | |
| 13863 | 151. | 178. | 208. | 92. | 116. |
| 13864 | 100. | 126. | 144. | 111. | 117. |
| 13865 | 114. | 129. | 133. | 93. | 119. |
| 13866 | b | 225. | 276. | 135. | 195. |
| 13867 | 148. | 133. | 148. | 126. | 159. |
| 13868 | 131. | 188. | 216. | 161. | 187. |
| 13869 | 138. | 121. | 171. | 140. | 159. |
| 13870 | 109. | 114. | 141. | 111. | 122. |
| 13871 | 117. | 151. | 148. | 84. | 104. |
| 13872 | 151. | 154. | 166. | 141. | 157. |
| 13873 | 169. | 162. | 199. | 137. | b |
| 13874 | 188. | 209. | 232. | 161. | 167. |
| 13875 | 128. | 161. | 196. | 146. | 164. |
| 13876 | 126. | 155. | 197. | 145. | 152. |
| 13877 | 119. | 159. | 196. | 159. | 177. |
| 13878 | 152. | 157. | 189. | 130. | 148. |
| 13879 | 137. | 152. | 183. | 115. | 145. |
| 13880 | 135. | 127. | 204. | 141. | 205. |
| 13881 | 122. | 131. | 157. | 127. | 119. |
| 13882 | 198. | 194. | 238. | 155. | 167. |
| 13883 | 165. | 181. | 246. | 124. | 162. |
| 13884 | 133. | 118. | 172. | 141. | 172. |
| 13885 | 99. | 87. | 101. | 62. | 65. |
| 13886 | 126. | 153. | 196. | 128. | 95. |
| 13887 | 114. | 130. | 174. | 128. | 147. |
| 13888 | 64. | 92. | 181. | 140. | 137. |
| 13889 | 127. | 173. | 244. | 167. | 149. |
| 13890 | 154. | 166. | 214. | 160. | 191. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 15 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C30 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 13 | 13 - 15a |
|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP IV | | | 10 MG/KG/DAY | |
| 13891 | b | 138. | 164. | 139. | 124. |
| 13892 | 132. | 152. | 187. | 143. | 155. |
| 13893 | 130. | 150. | b | 146. | 151. |
| 13894 | b | 156. | 217. | 142. | 193. |
| 13895 | b | 203. | 227. | 138. | 169. |
| 13896 | 128. | 141. | 175. | 110. | 123. |
| 13897 | 101. | 136. | 186. | 153. | 179. |
| 13898 | 133. | 157. | 171. | 136. | 151. |
| 13899 | 130. | 134. | 133. | 91. | 118. |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | |
| 13901 | 127. | 132. | 190. | 129. | 165. |
| 13902 | 112. | 153. | 186. | 129. | 164. |
| 13903 | 140. | 156. | 173. | 105. | 158. |
| 13904 | 123. | b | 175. | b | 161. |
| 13905 | 133. | 159. | 170. | 132. | 158. |
| 13906 | 139. | 158. | 208. | 146. | 168. |
| 13907 | 149. | 176. | 160. | 85. | 99. |
| 13908 | 94. | 115. | 136. | 92. | 99. |
| 13909 | 115. | 163. | 167. | 141. | 166. |
| 13910 | 157. | 183. | 185. | 90. | 127. |
| 13911 | 76. | 107. | 162. | 128. | 137. |
| 13912 | 131. | 157. | 184. | 131. | 132. |
| 13913 | 148. | 173. | 198. | 143. | 162. |
| 13914 | 154. | 217. | 198. | 138. | 156. |
| 13915 | 137. | 139. | 190. | 131. | 168. |
| 13916 | b | 191. | 220. | 149. | 158. |
| 13917 | 49. | 107. | 116. | 88. | 99. |
| 13918 | 147. | 173. | 194. | 137. | 155. |
| 13919 | 102. | 124. | 174. | 122. | 143. |
| 13920 | 109. | 126. | 158. | 57. | 66. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 15 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C30 (PAGE 5): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 13 | 13 - 15a |
|---|---|---|---|---|---|
| DAM # | DOSAGE GROUP V | | | 30 MG/KG/DAY | |
| 13921 | 108. | 120. | 172. | 114. | 140. |
| 13922 | 92. | 97. | 106. | 82. | 90. |
| 13923 | 80. | 116. | 174. | 95. | 136. |
| 13924 | 147. | 149. | 199. | 148. | 132. |
| 13925 | 122. | 135. | 147. | 126. | 146. |
| 13926 | 91. | 147. | 164. | 144. | 145. |
| 13927 | 112. | 123. | 127. | 103. | 122. |
| 13928 | b | 170. | 217. | 152. | 171. |
| 13929 | NOT PREGNANT | | | | |
| 13930 | 121. | 143. | 158. | 119. | 138. |
| 13931 | 68. | 98. | 126. | 94. | 111. |
| 13932 | 124. | 159. | 168. | 134. | 142. |
| 13933 | b | 94. | 118. | 103. | 180. |
| 13934 | 89. | 249. | b | 108. | 183. |
| 13935 | 135. | 151. | 203. | 110. | 126. |
| 13936 | 139. | 145. | 152. | 132. | 153. |
| 13937 | 158. | 168. | 168. | 122. | 158. |
| 13938 | 92. | 123. | 126. | 115. | 133. |
| 13939 | 103. | 167. | 221. | 138. | 162. |
| 13940 | 121. | 133. | 166. | 135. | 130. |
| 13941 | 140. | 153. | 198. | 148. | 141. |
| 13942 | 157. | 166. | 201. | 137. | 144. |
| 13943 | 131. | 128. | 166. | 118. | 127. |
| 13944 | 140. | 150. | 108. | 115. | 142. |
| 13945 | 141. | 168. | 184. | 147. | 136. |
| 13946 | 137. | 131. | 166. | 128. | 141. |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | |
| 13948 | 118. | 139. | 170. | 126. | 151. |
| 13949 | 120. | 151. | 193. | 129. | 155. |
| 13950 | 88. | 127. | 171. | 126. | 136. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 15 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C31 (PAGE 1): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| GROUP I | | 0 MG/KG/DAY | | | | |
| 13801 | 5 | 3 | M | C | P | PRO |
| 13802 | 6 | 2 | M | C | P | PRO |
| 13803 | 5 | 4 | M | C | P | D |
| 13804 | 5a | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | |
| 13805 | 5 | 1 | M | C | P | PRO |
| 13806 | 4 | 1 | M | C | P | PRO |
| 13807 | 5 | 3 | M | C | P | PRO |
| 13808 | 5 | 1 | M | C | P | PRO |
| 13809 | 6 | 14 | M | C | P | D |
| 13810 | 5 | 2 | M | C | P | PRO |
| 13811 | 4b | 1 | M | C | NP | D |
| 13812 | 3b | 4 | M | C | P | D |
| 13813 | 6 | 4 | M | C | P | D |
| 13814 | 4 | 3 | M | C | P | PRO |
| 13815 | 5 | 4 | M | C | P | PRO |
| 13816 | 5 | 8 | M | C | P | D |
| 13817 | 6 | 3 | M | C | P | PRO |
| 13818 | 5 | 3 | M | C | P | PRO |
| 13819 | 5 | 2 | M | C | P | PRO |
| 13820 | 7 | 2 | M | C | P | PRO |
| 13821 | 6 | 4 | M | C | P | PRO |
| 13822 | 5 | 4 | M | C | P | c |
| 13823 | 6 | 4 | M | C | P | PRO |
| 13824 | 7 | 4 | M | C | P | PRO |
| 13825 | 3 | 4 | M | C | P | PRO |
| 13826 | 6 | 1 | M | C | P | D |
| 13827 | 6 | 4 | M | C | P | PRO |
| 13828 | 5 | 1 | M | C | P | PRO |
| 13829 | 5 | 1 | M | C | P | PRO |
| 13830 | 6 | 4 | M | C | P | PRO |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS

a. Rat 13804 was moribund sacrificed on day 68 of study (day 19 of estrous evaluation); values excluded from group averages and statistical analyses.
b. Six or more consecutive days of diestrus were observed.
c. Estrous stage was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C31 (PAGE 2): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| GROUP II | | 1 MG/KG/DAY | | | | |
| 13831 | 5 | 3 | M | C | P | PRO |
| 13832 | 6 | 4 | M | C | P | PRO |
| 13833 | 5 | 2 | M | C | P | PRO |
| 13834 | 5 | 2 | M | C | P | PRO |
| 13835 | 5 | 2 | M | C | P | PRO |
| 13836 | 3a | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | |
| 13837 | 6 | 1 | M | C | P | PRO |
| 13838 | 3 | 1 | M | C | P | D |
| 13839 | 5 | 2 | M | C | P | D |
| 13840 | 5 | 1 | M | C | NP | E |
| 13841 | 5 | 1 | M | C | P | MET |
| 13842 | 5 | 1 | M | C | P | D |
| 13843 | 6 | 4 | M | C | P | PRO |
| 13844 | 5 | 1 | M | C | P | D |
| 13845 | 5 | 1 | M | C | P | D |
| 13846 | 5 | 1 | M | C | P | D |
| 13847 | 5 | 1 | M | C | P | PRO |
| 13848 | 6 | 4 | M | C | P | PRO |
| 13849 | 5 | 3 | M | C | P | PRO |
| 13850 | 6 | 1 | M | C | P | PRO |
| 13851 | 6 | 1 | M | C | NP | E |
| 13852 | 5 | 1 | M | C | P | b |
| 13853 | 5 | 1 | M | C | P | PRO |
| 13854 | 5 | 1 | M | C | P | D |
| 13855 | 5 | 1 | M | C | P | D |
| 13856 | 5 | 1 | M | C | P | D |
| 13857 | 5 | 4 | M | C | P | PRO |
| 13858 | 5 | 1 | M | C | P | PRO |
| 13859 | 5 | 3 | M | C | P | PRO |
| 13860 | 6 | 4 | M | C | P | PRO |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS

a. Rat 13836 was moribund sacrificed on day 59 of study (day 11 of estrous evaluation); values excluded from group averages and statistical analyses.

b. Estrous stage was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C31 (PAGE 3): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| GROUP III | | 3 MG/KG/DAY | | | | |
| 13861 | 4 | 1 | M | C | P | D |
| 13862 | 6 | 14 | M | NC | P | PRO |
| 13863 | 5 | 2 | M | C | P | PRO |
| 13864 | 5 | 5 | M | C | P | D |
| 13865 | 5 | 1 | M | C | P | D |
| 13866 | 4 | 2 | M | C | P | D |
| 13867 | 5 | 4 | M | C | P | PRO |
| 13868 | 6 | 4 | M | C | P | PRO |
| 13869 | 6 | 4 | M | C | P | PRO |
| 13870 | 5 | 1 | M | C | P | PRO |
| 13871 | 5 | 2 | M | C | P | PRO |
| 13872 | 6 | 4 | M | C | P | D |
| 13873 | 6 | 8 | M | C | P | D |
| 13874 | 4 | 2 | M | C | P | PRO |
| 13875 | 5 | 1 | M | C | P | D |
| 13876 | 5 | 1 | M | C | P | MET |
| 13877 | 5 | 3 | M | C | P | D |
| 13878 | 5 | 1 | M | C | P | PRO |
| 13879 | 6 | 1 | M | C | P | E |
| 13880 | 5 | 1 | M | C | P | PRO |
| 13881 | 5 | 1 | M | C | P | D |
| 13882 | 5a | 3 | M | C | P | D |
| 13883 | 5 | 1 | M | C | P | PRO |
| 13884 | 5 | 4 | M | C | P | PRO |
| 13885 | 2b | 1 | M | C | P | PRO |
| 13886 | 4b | 1 | M | C | P | D |
| 13887 | 6 | 4 | M | C | P | D |
| 13888 | 5 | 1 | M | C | P | D |
| 13889 | 5 | 1 | M | C | P | PRO |
| 13890 | 6 | 4 | M | C | P | MET |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS
a. Estrous stage was not recorded on day 19 of estrous evaluation.
b. Six or more consecutive days of estrus were observed.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C31 (PAGE 4): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| GROUP IV | | 10 MG/KG/DAY | | | | |
| 13891 | 6 | 4 | M | C | P | PRO |
| 13892 | 6 | 4 | M | C | P | PRO |
| 13893 | 5 | 1 | M | C | P | D |
| 13894 | 5 | 2 | M | C | P | MET |
| 13895 | 5 | 2 | M | C | P | D |
| 13896 | 5 | 2 | M | C | P | PRO |
| 13897 | 6 | 4 | M | C | P | PRO |
| 13898 | 5 | 1 | M | C | P | D |
| 13899 | 5 | 3 | M | C | P | PRO |
| 13900 | 3a | 14 | DID NOT MATE | - | - | E |
| 13901 | 5 | 4 | M | C | P | PRO |
| 13902 | 5 | 2 | M | C | P | D |
| 13903 | 5 | 3 | M | C | P | PRO |
| 13904 | 2 | 3 | M | C | P | D |
| 13905 | 4 | 4 | M | C | P | PRO |
| 13906 | 6 | 14 | M | NC | P | PRO |
| 13907 | 4 | 2 | M | C | P | D |
| 13908 | 5 | 1 | M | C | P | D |
| 13909 | 6 | 4 | M | C | P | D |
| 13910 | 5 | 2 | M | C | P | PRO |
| 13911 | 5 | 1 | M | C | P | D |
| 13912 | 5 | 2 | M | C | P | PRO |
| 13913 | 4b | 3 | M | C | P | PRO |
| 13914 | 4 | 3 | M | C | P | PRO |
| 13915 | 6 | 4 | M | C | P | MET |
| 13916 | 5 | 3 | M | C | P | D |
| 13917 | 3 | 14 | M | NC | P | PRO |
| 13918 | 6 | 4 | M | C | P | PRO |
| 13919 | 5 | 3 | M | C | P | PRO |
| 13920 | 5 | 3 | M | C | P | D |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS
a. Six or more consecutive days of estrus were observed.
b. Six or more consecutive days of diestrus were observed.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C31 (PAGE 5): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| GROUP V | | 30 MG/KG/DAY | | | | |
| 13921 | 5 | 2 | M | C | P | PRO |
| 13922 | 5 | 2 | M | C | P | D |
| 13923 | 5 | 1 | M | C | P | PRO |
| 13924 | 6 | 1 | M | C | P | D |
| 13925 | 7 | 4 | M | C | P | PRO |
| 13926 | 5 | 2 | M | C | P | PRO |
| 13927 | 5 | 2 | M | C | P | PRO |
| 13928 | 5 | 1 | M | C | P | PRO |
| 13929 | 3a | 3 | M | C | NP | E |
| 13930 | 5 | 2 | M | C | P | PRO |
| 13931 | 6 | 4 | M | C | P | PRO |
| 13932 | 5 | 3 | M | C | P | PRO |
| 13933 | 5 | 4 | M | C | P | PRO |
| 13934 | 6 | 14 | M | NC | P | D |
| 13935 | 5 | 2 | M | C | P | PRO |
| 13936 | 6 | 4 | M | C | P | D |
| 13937 | 5 | 3 | M | C | P | PRO |
| 13938 | 4 | 2 | M | C | P | PRO |
| 13939 | 5 | 2 | M | C | P | D |
| 13940 | 5 | 5 | M | C | P | D |
| 13941 | 5 | 1 | M | C | P | PRO |
| 13942 | 4 | 1 | M | C | P | PRO |
| 13943 | 5 | 1 | M | C | P | PRO |
| 13944 | 5 | 2 | M | C | P | PRO |
| 13945 | 5 | 6 | M | C | P | D |
| 13946 | 6 | 4 | M | C | P | PRO |
| 13947 | 5 | 1 | M | C | P | b |
| 13948 | 6 | 4 | M | C | P | PRO |
| 13949 | 5 | 3 | M | C | P | D |
| 13950 | 6 | 3 | M | C | P | PRO |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS
a. Six or more consecutive days of estrus were observed.
b. Estrous stage was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C32 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| I | | | | | |
| 0 | 13801 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13802 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13803 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13804 | DS 68 | - | 67 | MORIBUND SACRIFICED ON DAY 68 OF STUDY. ALL TISSUES APPEARED NORMAL. |
| | 13805 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13806 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13807 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13808 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13809 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 13810 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13811 | DG 25 | NP | 95 | ALL TISSUES APPEARED NORMAL. |
| | 13812 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13813 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13814 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13815 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13816 | DL 22 | P | 119 | ALL TISSUES APPEARED NORMAL. |
| | 13817 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13818 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13819 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13820 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13821 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
P = PREGNANT NP = NOT PREGNANT
a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C32 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| I | | | | | |
| 0 | 13822 | DL 8 | P | 101 | SACRIFICED ON DAY 8 OF LACTATION.b ALL TISSUES APPEARED NORMAL. |
| | 13823 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13824 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13825 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13826 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13827 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13828 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13829 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13830 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
P = PREGNANT NP = NOT PREGNANT
a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.
b. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C32 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| II | | | | | |
| 1 | 13831 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13832 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13833 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13834 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13835 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13836 | DS 59 | - | 59 | MORIBUND SACRIFICED ON DAY 59 OF STUDY. LEFT FORELIMB: ULNA AND RADIUS, BROKEN. ALL OTHER TISSUES APPEARED NORMAL. |
| | 13837 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13838 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13839 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13840 | DG 25 | NP | 95 | ALL TISSUES APPEARED NORMAL. |
| | 13841 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13842 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13843 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13844 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13845 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13846 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13847 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13848 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13849 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13850 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13851 | DG 25 | NP | 95 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
P = PREGNANT NP = NOT PREGNANT
a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C32 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| II | | | | | |
| 1 | 13852 | DL 11 | P | 102 | SACRIFICED ON DAY 11 OF LACTATION.b ALL TISSUES APPEARED NORMAL. |
| | 13853 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13854 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13855 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13856 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13857 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13858 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13859 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13860 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
P = PREGNANT NP = NOT PREGNANT
a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.
b. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.



ARGUS 418-020

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C32 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| III | | | | | |
| 3 | 13861 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13862 | DG 25 | P | 108 | ALL TISSUES APPEARED NORMAL.b |
| | 13863 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13864 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13865 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13866 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13867 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13868 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13869 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13870 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13871 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13872 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13873 | DL 22 | P | 120 | ALL TISSUES APPEARED NORMAL. |
| | 13874 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13875 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13876 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13877 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13878 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13879 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13880 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13881 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13882 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13883 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13884 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13885 | DL 22 | P | 114 | KIDNEYS: LEFT, PELVIS, MARKED DILATION. ALL OTHER TISSUES APPEARED NORMAL. |
| | 13886 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13887 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13888 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13889 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13890 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
P = PREGNANT NP = NOT PREGNANT
a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.
b. Rat 13862 had one implantation site present.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C32 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| IV | | | | | |
| 10 | 13891 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13892 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13893 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13894 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13895 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13896 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13897 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13898 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13899 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13900 | DS109 | NP | 108 | ALL TISSUES APPEARED NORMAL. |
| | 13901 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13902 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13903 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13904 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13905 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13906 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13907 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13908 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13909 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13910 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13911 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13912 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13913 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13914 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13915 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13916 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13917 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13918 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13919 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13920 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
P = PREGNANT NP = NOT PREGNANT
a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C32 (PAGE 7): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| V | | | | | |
| 30 | 13921 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13922 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13923 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13924 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13925 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13926 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13927 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13928 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13929 | DG 25 | NP | 97 | ALL TISSUES APPEARED NORMAL. |
| | 13930 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13931 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13932 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13933 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13934 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13935 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |
| | 13936 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13937 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13938 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13939 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13940 | DL 22 | P | 117 | ALL TISSUES APPEARED NORMAL. |
| | 13941 | DL 22 | P | 112 | ALL TISSUES APPEARED NORMAL. |
| | 13942 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13943 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13944 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13945 | DL 22 | P | 118 | ALL TISSUES APPEARED NORMAL. |
| | 13946 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 13947 | DL 1 | P | 93 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION. ALL TISSUES APPEARED NORMAL. |
| | 13948 | DL 22 | P | 115 | ALL TISSUES APPEARED NORMAL. |
| | 13949 | DL 22 | P | 113 | ALL TISSUES APPEARED NORMAL. |
| | 13950 | DL 22 | P | 114 | ALL TISSUES APPEARED NORMAL. |

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
P = PREGNANT NP = NOT PREGNANT
a. Refer to the individual clinical observations table (Table C24) for external observations confirmed at necropsy.

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TABLE C33 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13801 | 338. | 0.020 | 5.92 | 2.20 | 0.65 | 17.78 | 5.26 | 1.70 | 0.50 | 1.86 | 0.55 | 0.040 | 11.83 |
| 13802 | 367. | 0.014b | 3.81 | 2.30 | 0.63 | 21.16 | 5.76 | 1.92 | 0.52 | 2.08 | 0.57 | 0.043b | 11.72 |
| 13803 | 366. | 0.021 | 5.74 | 2.18 | 0.60 | 20.36 | 5.56 | 1.44 | 0.39 | 1.54 | 0.42 | 0.045 | 12.30 |
| 13804c | --- | 0.008 | ---- | 1.95 | ---- | 11.13 | ---- | 1.21 | ---- | 1.14 | ---- | 0.031 | ----- |
| 13805 | 348. | 0.013 | 3.74 | 2.22 | 0.64 | 16.85 | 4.84 | 1.85 | 0.53 | 1.64 | 0.47 | 0.042 | 12.07 |
| 13806 | 340. | 0.019 | 5.59 | 2.13 | 0.63 | 20.35 | 5.98 | 1.61 | 0.47 | 1.48 | 0.44 | 0.051 | 15.00 |
| 13807 | 367. | 0.106d | 28.88d | 2.39 | 0.65 | 19.10 | 5.20 | 1.45 | 0.40 | 1.58 | 0.43 | 0.072 | 19.62 |
| 13808 | 286. | 0.013 | 4.54 | 2.27 | 0.79 | 13.72 | 4.80 | 1.45 | 0.51 | 1.55 | 0.54 | 0.047 | 16.43 |
| 13809 | 355. | 0.015 | 4.22 | 2.08 | 0.58 | 18.47 | 5.20 | 1.27 | 0.36 | 1.31 | 0.37 | 0.037 | 10.42 |
| 13810 | 370. | 0.031 | 8.38 | 2.27 | 0.61 | 20.44 | 5.52 | 1.74 | 0.47 | 1.67 | 0.45 | 0.067 | 18.11 |
| 13811e | --- | 0.130 | ---- | 2.10 | ---- | 13.44 | ---- | 1.35 | ---- | 1.31 | ---- | 0.035 | ----- |
| 13812 | 326. | 0.013 | 3.99 | 2.21 | 0.68 | 15.92 | 4.88 | 1.48 | 0.45 | 1.44 | 0.44 | 0.034 | 10.43 |
| 13813 | 393. | 0.022 | 5.60 | 2.18 | 0.55 | 22.84 | 5.81 | 1.61 | 0.41 | 1.70 | 0.43 | 0.045 | 11.45 |
| 13814 | 359. | 0.017 | 4.74 | 2.26 | 0.63 | 19.92 | 5.55 | 1.67 | 0.46 | 1.70 | 0.47 | 0.032 | 8.91 |
| 13815 | 370. | 0.017 | 4.59 | 2.26 | 0.61 | 20.15 | 5.44 | 1.77 | 0.48 | 1.60 | 0.43 | 0.045 | 12.16 |
| 13816 | 320. | 0.018 | 5.62 | 2.15 | 0.67 | 17.21 | 5.38 | 1.52 | 0.48 | 1.46 | 0.46 | 0.059 | 18.44 |
| 13817 | 302. | 0.018 | 5.96 | 2.31 | 0.76 | 17.80 | 5.89 | 1.30 | 0.43 | 1.33 | 0.44 | 0.043 | 14.24 |
| 13818 | 376. | 0.014 | 3.72 | 2.53 | 0.67 | 24.99 | 6.65 | 1.75 | 0.46 | 1.92 | 0.51 | 0.059 | 15.69 |
| 13819 | 344. | 0.018 | 5.23 | 2.30 | 0.67 | 19.63 | 5.71 | 1.49 | 0.43 | 1.52 | 0.44 | 0.041 | 11.92 |
| 13820 | 317. | 0.012 | 3.78 | 2.06 | 0.65 | 16.32 | 5.15 | 1.57 | 0.50 | 1.50 | 0.47 | 0.038 | 11.99 |
| 13821 | 328. | 0.016 | 4.88 | 1.86 | 0.57 | 17.26 | 5.26 | 1.53 | 0.47 | 1.58 | 0.48 | 0.043 | 13.11 |
| 13822f | --- | 0.023 | ---- | 2.31 | ---- | 13.61 | ---- | 1.15 | ---- | 1.13 | ---- | 0.048 | ----- |
| 13823 | 339. | 0.018 | 5.31 | 2.30 | 0.68 | 17.43 | 5.14 | 1.45 | 0.43 | 1.54 | 0.45 | 0.035 | 10.32 |
| 13824 | 385. | 0.016 | 4.16 | 2.31 | 0.60 | 20.80 | 5.40 | 1.60 | 0.42 | 1.61 | 0.42 | 0.040 | 10.39 |
| 13825 | 350. | 0.018 | 5.14 | 2.19 | 0.62 | 16.81 | 4.80 | 1.58 | 0.45 | 1.47 | 0.42 | 0.047 | 13.43 |
| 13826 | 376. | 0.027 | 7.18 | 2.21 | 0.59 | 21.80 | 5.80 | 1.74 | 0.46 | 1.71 | 0.45 | 0.046 | 12.23 |
| 13827 | 377. | 0.025 | 6.63 | 2.40 | 0.64 | 18.52 | 4.91 | 1.49 | 0.40 | 1.53 | 0.40 | 0.056 | 14.85 |
| 13828 | 309. | 0.022 | 7.12 | 2.28 | 0.74 | 16.69 | 5.40 | 1.50 | 0.48 | 1.43 | 0.46 | 0.050 | 16.18 |
| 13829 | 301. | 0.015 | 4.98 | 2.07 | 0.69 | 15.27 | 5.07 | 1.34 | 0.44 | 1.32 | 0.44 | 0.041 | 13.62 |
| 13830 | 306. | 0.023 | 7.52 | 2.18 | 0.71 | 17.04 | 5.57 | 1.51 | 0.49 | 1.44 | 0.47 | 0.026 | 8.50 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Fixed weight.
c. Rat 13804 was moribund sacrificed on day 68 of study; values excluded from group averages and statistical analyses.
d. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.
e. Rat was not pregnant; values excluded from group averages and statistical analyses.
f. Rat 13822 was sacrificed on day 8 of lactation; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C33 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % TBW a | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % TBW a | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13801 | 338. | 0.042b | 12.43 | 0.68 | 0.20 | 0.24 | 0.07 | 0.060b | 17.75 | 0.072b | 21.30 | 0.52 | 0.15 |
| 13802 | 367. | 0.040b | 10.90 | 0.78 | 0.21 | 0.70 | 0.19 | 0.047b | 12.81 | 0.061b | 16.62 | 0.54 | 0.15 |
| 13803 | 366. | 0.038 | 10.38 | 0.72 | 0.20 | 0.18 | 0.05 | 0.061 | 16.67 | 0.036 | 9.84 | 0.51 | 0.14 |
| 13804c | --- | 0.032 | ----- | 0.56 | ---- | 0.55 | ---- | 0.054 | ----- | 0.061 | ----- | 0.29 | ---- |
| 13805 | 348. | 0.038 | 10.92 | 0.66 | 0.19 | 0.26 | 0.07 | 0.045 | 12.93 | 0.046 | 13.22 | 0.68 | 0.20 |
| 13806 | 340. | 0.058 | 17.06 | 0.74 | 0.22 | 0.09 | 0.03 | 0.049 | 14.41 | 0.056 | 16.47 | 0.51 | 0.15 |
| 13807 | 367. | 0.056 | 15.26 | 0.74 | 0.20 | 0.06 | 0.02 | 0.040 | 10.90 | 0.046 | 12.53 | 0.45 | 0.12 |
| 13808 | 286. | 0.046 | 16.08 | 0.72 | 0.25 | 0.20 | 0.07 | 0.054 | 18.88 | 0.047 | 16.43 | 0.57 | 0.20 |
| 13809 | 355. | 0.042 | 11.83 | 0.52 | 0.15 | 0.07 | 0.02 | 0.038 | 10.70 | 0.044 | 12.39 | 0.42 | 0.12 |
| 13810 | 370. | 0.051 | 13.78 | 0.75 | 0.20 | 0.26 | 0.07 | 0.062 | 16.76 | 0.052 | 14.05 | 0.73 | 0.20 |
| 13811d | --- | 0.032 | ----- | 0.73 | ---- | 0.46 | ---- | 0.033 | ----- | 0.055 | ----- | 0.54 | ---- |
| 13812 | 326. | 0.037 | 11.35 | 0.53 | 0.16 | 0.14 | 0.04 | 0.046 | 14.11 | 0.042 | 12.88 | 0.48 | 0.15 |
| 13813 | 393. | 0.047 | 11.96 | 0.60 | 0.15 | 0.28 | 0.07 | 0.055 | 13.99 | 0.056 | 14.25 | 0.63 | 0.16 |
| 13814 | 359. | 0.050 | 13.93 | 0.73 | 0.20 | 0.21 | 0.06 | 0.041 | 11.42 | 0.064 | 17.83 | 0.51 | 0.14 |
| 13815 | 370. | 0.041 | 11.08 | 0.86 | 0.23 | 0.23 | 0.06 | 0.038 | 10.27 | 0.062 | 16.76 | 0.58 | 0.16 |
| 13816 | 320. | 0.051 | 15.94 | 0.52 | 0.16 | 0.26 | 0.08 | 0.047 | 14.69 | 0.047 | 14.69 | 0.47 | 0.15 |
| 13817 | 302. | 0.041 | 13.58 | 0.55 | 0.18 | 0.13 | 0.04 | 0.043 | 14.24 | 0.036 | 11.92 | 0.52 | 0.17 |
| 13818 | 376. | 0.057 | 15.16 | 0.75 | 0.20 | 0.15 | 0.04 | 0.070 | 18.62 | 0.051 | 13.56 | 0.05 | 0.01 |
| 13819 | 344. | 0.040 | 11.63 | 0.73 | 0.21 | 0.19 | 0.06 | 0.044 | 12.79 | 0.042 | 12.21 | 0.51 | 0.15 |
| 13820 | 317. | 0.047 | 14.83 | 0.66 | 0.21 | 0.17 | 0.05 | 0.040 | 12.62 | 0.051 | 16.09 | 0.54 | 0.17 |
| 13821 | 328. | 0.042 | 12.80 | 0.57 | 0.17 | 0.22 | 0.07 | 0.058 | 17.68 | 0.072 | 21.95 | 0.61 | 0.18 |
| 13822e | --- | 0.059 | ----- | 0.65 | ---- | 0.23 | ---- | 0.063 | ----- | 0.076 | ----- | 0.53 | ---- |
| 13823 | 339. | 0.032 | 9.44 | 0.73 | 0.22 | 0.19 | 0.06 | 0.071 | 20.94 | 0.049 | 14.45 | 0.53 | 0.16 |
| 13824 | 385. | 0.038 | 9.87 | 0.70 | 0.18 | 0.26 | 0.07 | 0.068 | 17.66 | 0.071 | 18.44 | 0.41 | 0.11 |
| 13825 | 350. | 0.047b | 13.43 | 0.74 | 0.21 | 0.26 | 0.07 | 0.052 | 14.86 | 0.053 | 15.14 | 0.65 | 0.18 |
| 13826 | 376. | 0.043 | 11.44 | 0.62 | 0.16 | 0.18 | 0.05 | 0.056 | 14.89 | 0.073 | 19.41 | 0.30 | 0.08 |
| 13827 | 377. | 0.047 | 12.47 | 0.81 | 0.21 | 0.36 | 0.10 | 0.049 | 13.00 | 0.069 | 18.30 | 0.65 | 0.17 |
| 13828 | 309. | 0.050 | 16.18 | 0.70 | 0.23 | 0.22 | 0.07 | 0.080 | 25.89 | 0.054 | 17.48 | 0.54 | 0.17 |
| 13829 | 301. | 0.054 | 17.94 | 0.54 | 0.18 | 0.17 | 0.06 | 0.054 | 17.94 | 0.048 | 15.95 | 0.48 | 0.16 |
| 13830 | 306. | 0.032 | 10.46 | 0.57 | 0.19 | 0.19 | 0.06 | 0.042 | 13.72 | 0.037 | 12.09 | 0.77 | 0.25 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Fixed weight.
c. Rat 13804 was moribund sacrificed on day 68 of study; values excluded from group averages and statistical analyses.
d. Rat was not pregnant; values excluded from group averages and statistical analyses.
e. Rat 13822 was sacrificed on day 8 of lactation; values excluded from group averages and statistical analyses.

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TABLE C33 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13831 | 361. | 0.026 | 7.20 | 2.17 | 0.60 | 21.35 | 5.91 | 1.63 | 0.45 | 1.67 | 0.46 | 0.048 | 13.30 |
| 13832 | 357. | 0.015 | 4.20 | 2.31 | 0.65 | 18.12 | 5.08 | 1.48 | 0.41 | 1.51 | 0.42 | 0.049 | 13.72 |
| 13833 | 343. | 0.019 | 5.54 | 2.23 | 0.65 | 17.51 | 5.10 | 1.48 | 0.43 | 1.57 | 0.46 | 0.055 | 16.03 |
| 13834 | 310. | 0.013 | 4.19 | 2.26 | 0.73 | 16.32 | 5.26 | 1.32 | 0.42 | 1.38 | 0.44 | 0.040 | 12.90 |
| 13835 | 318. | 0.019 | 5.97 | 2.38 | 0.75 | 20.02 | 6.30 | 1.74 | 0.55 | 1.61 | 0.51 | 0.059 | 18.55 |
| 13836b | --- | 0.017 | ---- | 1.91 | ---- | 10.07 | ---- | 1.28 | ---- | 1.24 | ---- | 0.038 | ----- |
| 13837 | 359. | 0.024 | 6.68 | 2.07 | 0.58 | 20.19 | 5.62 | 1.49 | 0.42 | 1.60 | 0.44 | 0.049 | 13.65 |
| 13838 | 375. | 0.021 | 5.60 | 2.45 | 0.65 | 18.97 | 5.06 | 1.73 | 0.46 | 1.80 | 0.48 | 0.050 | 13.33 |
| 13839 | 361. | 0.013 | 3.60 | 2.30 | 0.64 | 19.83 | 5.49 | 1.58 | 0.44 | 1.57 | 0.43 | 0.055 | 15.24 |
| 13840c | --- | 0.018 | ---- | 1.98 | ---- | 11.67 | ---- | 1.28 | ---- | 1.52 | ---- | 0.053 | ----- |
| 13841 | 347. | 0.016 | 4.61 | 2.18 | 0.63 | 18.14 | 5.23 | 1.75 | 0.50 | 1.81 | 0.52 | 0.077 | 22.19 |
| 13842 | 351. | 0.017 | 4.84 | 2.20 | 0.63 | 18.85 | 5.37 | 1.62 | 0.46 | 1.73 | 0.49 | 0.052 | 14.81 |
| 13843 | 317. | 0.015 | 4.73 | 2.20 | 0.69 | 14.05 | 4.43 | 1.41 | 0.44 | 1.51 | 0.48 | 0.039 | 12.30 |
| 13844 | 368. | 0.023 | 6.25 | 2.18 | 0.59 | 22.15 | 6.02 | 1.86 | 0.50 | 1.86 | 0.50 | 0.061 | 16.58 |
| 13845 | 352. | 0.026 | 7.39 | 2.40 | 0.68 | 19.06 | 5.41 | 1.56 | 0.44 | 1.67 | 0.47 | 0.047 | 13.35 |
| 13846 | 336. | 0.013 | 3.87 | 2.26 | 0.67 | 16.47 | 4.90 | 1.64 | 0.49 | 1.49 | 0.44 | 0.050 | 14.88 |
| 13847 | 314. | 0.019 | 6.05 | 2.26 | 0.72 | 16.51 | 5.26 | 1.51 | 0.48 | 1.68 | 0.54 | 0.033 | 10.51 |
| 13848 | 331. | 0.018 | 5.44 | 1.75 | 0.53 | 15.39 | 4.65 | 1.67 | 0.50 | 1.58 | 0.48 | 0.051 | 15.41 |
| 13849 | 336. | 0.027 | 8.04 | 2.20 | 0.65 | 18.37 | 5.47 | 1.57 | 0.47 | 1.50 | 0.45 | 0.039 | 11.61 |
| 13850 | 341. | 0.020 | 5.86 | 2.39 | 0.70 | 19.60 | 5.75 | 1.79 | 0.52 | 1.87 | 0.55 | 0.058 | 17.01 |
| 13851c | --- | 0.017 | ---- | 1.91 | ---- | 10.61 | ---- | 1.19 | ---- | 1.16 | ---- | 0.034 | ----- |
| 13852d | --- | 0.017 | ---- | 2.15 | ---- | 13.39 | ---- | 1.32 | ---- | 1.28 | ---- | 0.058 | ----- |
| 13853 | 331. | 0.018 | 5.44 | 2.03 | 0.61 | 16.88 | 5.10 | 1.64 | 0.50 | 1.63 | 0.49 | 0.053 | 16.01 |
| 13854 | 381. | 0.014 | 3.67 | 2.32 | 0.61 | 20.77 | 5.45 | 1.70 | 0.45 | 1.80 | 0.47 | 0.059 | 15.48 |
| 13855 | 330. | 0.018 | 5.45 | 2.23 | 0.68 | 15.43 | 4.68 | 1.39 | 0.42 | 1.29 | 0.39 | 0.040 | 12.12 |
| 13856 | 367. | 0.025 | 6.81 | 2.19 | 0.60 | 18.95 | 5.16 | 1.43 | 0.39 | 1.49 | 0.40 | 0.059 | 16.08 |
| 13857 | 295. | 0.009 | 3.05 | 2.04 | 0.69 | 15.95 | 5.41 | 1.29 | 0.44 | 1.53 | 0.52 | 0.044 | 14.92 |
| 13858 | 338. | 0.011 | 3.25 | 2.15 | 0.64 | 17.69 | 5.23 | 1.60 | 0.47 | 1.53 | 0.45 | 0.057 | 16.86 |
| 13859 | 316. | 0.024 | 7.59 | 2.10 | 0.66 | 16.36 | 5.18 | 1.58 | 0.50 | 1.59 | 0.50 | 0.050 | 15.82 |
| 13860 | 293. | 0.023 | 7.85 | 2.22 | 0.76 | 14.25 | 4.86 | 1.57 | 0.54 | 1.58 | 0.54 | 0.048 | 16.38 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Rat 13836 was moribund sacrificed on day 59 of study; values excluded from group averages and statistical analyses.
c. Rat was not pregnant; values excluded from group averages and statistical analyses.
d. Rat 13852 was sacrificed on day 11 of lactation; values excluded from group averages and statistical analyses.

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TABLE C33 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % TBW a | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % TBW a | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13831 | 361. | 0.040 | 11.08 | 0.74 | 0.20 | 0.14 | 0.04 | 0.072 | 19.94 | 0.065 | 18.00 | 0.58 | 0.16 |
| 13832 | 357. | 0.040 | 11.20 | 0.79 | 0.22 | 0.14 | 0.04 | 0.051 | 14.28 | 0.041 | 11.48 | 0.62 | 0.17 |
| 13833 | 343. | 0.052 | 15.16 | 0.72 | 0.21 | 0.24 | 0.07 | 0.050 | 14.58 | 0.065 | 18.95 | 0.41 | 0.12 |
| 13834 | 310. | 0.038 | 12.26 | 0.67 | 0.22 | 0.15 | 0.05 | 0.050 | 16.13 | 0.074 | 23.87 | 0.37 | 0.12 |
| 13835 | 318. | 0.046 | 14.46 | 0.64 | 0.20 | 0.21 | 0.07 | 0.037 | 11.64 | 0.045 | 14.15 | 0.50 | 0.16 |
| 13836b | --- | 0.039 | ----- | 0.49 | ---- | 0.34 | ---- | 0.049 | ----- | 0.057 | ----- | 0.53 | ---- |
| 13837 | 359. | 0.042 | 11.70 | 0.81 | 0.22 | 0.29 | 0.08 | 0.055 | 15.32 | 0.065 | 18.10 | 1.10 | 0.31 |
| 13838 | 375. | 0.055 | 14.67 | 0.66 | 0.18 | 0.20 | 0.05 | 0.062 | 16.53 | 0.050 | 13.33 | 0.60 | 0.16 |
| 13839 | 361. | 0.051 | 14.13 | 0.82 | 0.23 | 0.21 | 0.06 | 0.046 | 12.74 | 0.051 | 14.13 | 0.48 | 0.13 |
| 13840c | --- | 0.049 | ----- | 0.59 | ---- | 0.35 | ---- | 0.064 | ----- | 0.064 | ----- | 0.59 | ---- |
| 13841 | 347. | 0.060 | 17.29 | 0.65 | 0.19 | 0.18 | 0.05 | 0.066 | 19.02 | 0.111 | 31.99 | 0.55 | 0.16 |
| 13842 | 351. | 0.046 | 13.10 | 0.67 | 0.19 | 0.22 | 0.06 | 0.077 | 21.94 | 0.050 | 14.24 | 0.75 | 0.21 |
| 13843 | 317. | 0.030 | 9.46 | 0.54 | 0.17 | 0.19 | 0.06 | 0.047 | 14.83 | 0.057 | 17.98 | 0.63 | 0.20 |
| 13844 | 368. | 0.047 | 12.77 | 0.79 | 0.21 | 0.15 | 0.04 | 0.042 | 11.41 | 0.051 | 13.86 | 0.51 | 0.14 |
| 13845 | 352. | 0.049 | 13.92 | 0.51 | 0.14 | 0.17 | 0.05 | 0.094 | 26.70 | 0.102 | 28.98 | 0.32 | 0.09 |
| 13846 | 336. | 0.042 | 12.50 | 0.48 | 0.14 | 0.14 | 0.04 | 0.037 | 11.01 | 0.036 | 10.71 | 0.64 | 0.19 |
| 13847 | 314. | 0.034 | 10.83 | 0.71 | 0.23 | 0.24 | 0.08 | 0.054 | 17.20 | 0.060 | 19.11 | 0.72 | 0.23 |
| 13848 | 331. | 0.046 | 13.90 | 0.61 | 0.18 | 0.21 | 0.06 | 0.049 | 14.80 | 0.046 | 13.90 | 0.36 | 0.11 |
| 13849 | 336. | 0.035 | 10.42 | 0.68 | 0.20 | 0.10 | 0.03 | 0.034 | 10.12 | 0.043 | 12.80 | 0.43 | 0.13 |
| 13850 | 341. | 0.050 | 14.66 | 0.64 | 0.19 | 0.20 | 0.06 | 0.034 | 9.97 | 0.066 | 19.35 | 0.84 | 0.25 |
| 13851c | --- | 0.039 | ----- | 0.60 | ---- | 0.27 | ---- | 0.033 | ----- | 0.039 | ----- | 1.24 | ---- |
| 13852d | --- | 0.043 | ----- | 0.59 | ---- | 0.24 | ---- | 0.049 | ----- | 0.066 | ----- | 0.45 | ---- |
| 13853 | 331. | 0.061 | 18.43 | 0.70 | 0.21 | 0.22 | 0.07 | 0.082 | 24.77 | 0.037 | 11.18 | 1.23 | 0.37 |
| 13854 | 381. | 0.052 | 13.65 | 0.83 | 0.22 | 0.29 | 0.08 | 0.075 | 19.68 | 0.043 | 11.29 | 0.54 | 0.14 |
| 13855 | 330. | 0.048 | 14.54 | 0.78 | 0.24 | 0.16 | 0.05 | 0.077 | 23.33 | 0.066 | 20.00 | 0.64 | 0.19 |
| 13856 | 367. | 0.059 | 16.08 | 0.79 | 0.22 | 0.22 | 0.06 | 0.045 | 12.26 | 0.055 | 14.99 | 0.52 | 0.14 |
| 13857 | 295. | 0.036 | 12.20 | 0.69 | 0.23 | 0.21 | 0.07 | 0.032 | 10.85 | 0.041 | 13.90 | 0.47 | 0.16 |
| 13858 | 338. | 0.043 | 12.72 | 0.71 | 0.21 | 0.22 | 0.06 | 0.053 | 15.68 | 0.062 | 18.34 | 0.47 | 0.14 |
| 13859 | 316. | 0.050 | 15.82 | 0.75 | 0.24 | 0.13 | 0.04 | 0.046 | 14.56 | 0.044 | 13.92 | 0.43 | 0.14 |
| 13860 | 293. | 0.052 | 17.75 | 0.62 | 0.21 | 0.20 | 0.07 | 0.053 | 18.09 | 0.060 | 20.48 | 0.70 | 0.24 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Rat 13836 was moribund sacrificed on day 59 of study; values excluded from group averages and statistical analyses.
c. Rat was not pregnant; values excluded from group averages and statistical analyses.
d. Rat 13852 was sacrificed on day 11 of lactation; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C33 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY | | BRAIN | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a |
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13861 | 312. | 0.014 | 4.49 | 2.11 | 0.68 | 17.99 | 5.77 | 1.59 | 0.51 | 1.58 | 0.51 | 0.044 | 14.10 |
| 13862b | --- | 0.014 | ---- | 2.16 | ---- | 15.04 | ---- | 1.58 | ---- | 1.66 | ---- | 0.033 | ----- |
| 13863 | 352. | 0.014 | 3.98 | 2.12 | 0.60 | 20.98 | 5.96 | 1.48 | 0.42 | 1.67 | 0.47 | 0.044 | 12.50 |
| 13864 | 335. | 0.011 | 3.28 | 2.03 | 0.60 | 16.43 | 4.90 | 1.33 | 0.40 | 1.35 | 0.40 | 0.039 | 11.64 |
| 13865 | 353. | 0.014 | 3.97 | 2.28 | 0.64 | 17.78 | 5.04 | 1.53 | 0.43 | 1.59 | 0.45 | 0.049 | 13.88 |
| 13866 | 401. | 0.018 | 4.49 | 1.94 | 0.48 | 20.32 | 5.07 | 1.86 | 0.46 | 1.75 | 0.44 | 0.031 | 7.73 |
| 13867 | 335. | 0.014 | 4.18 | 2.19 | 0.65 | 15.19 | 4.53 | 1.54 | 0.46 | 1.56 | 0.46 | 0.052 | 15.52 |
| 13868 | 356. | 0.028 | 7.86 | 2.22 | 0.62 | 18.68 | 5.25 | 1.69 | 0.47 | 1.77 | 0.50 | 0.073 | 20.50 |
| 13869 | 357. | 0.016 | 4.48 | 2.25 | 0.63 | 17.99 | 5.04 | 1.63 | 0.46 | 1.62 | 0.45 | 0.045 | 12.60 |
| 13870 | 386. | 0.020 | 5.18 | 2.36 | 0.61 | 21.82 | 5.65 | 2.11 | 0.55 | 2.03 | 0.52 | 0.048 | 12.44 |
| 13871 | 366. | 0.014 | 3.82 | 2.30 | 0.63 | 19.76 | 5.40 | 1.55 | 0.42 | 1.65 | 0.45 | 0.065 | 17.76 |
| 13872 | 347. | 0.022 | 6.34 | 2.33 | 0.67 | 17.22 | 4.96 | 1.44 | 0.41 | 1.48 | 0.43 | 0.050 | 14.41 |
| 13873 | 346. | 0.016 | 4.62 | 2.15 | 0.62 | 17.19 | 4.97 | 1.54 | 0.44 | 1.64 | 0.47 | 0.065 | 18.79 |
| 13874 | 368. | 0.023 | 6.25 | 2.46 | 0.67 | 15.63 | 4.25 | 1.61 | 0.44 | 1.70 | 0.46 | 0.050 | 13.59 |
| 13875 | 358. | 0.018 | 5.03 | 2.07 | 0.58 | 18.99 | 5.30 | 1.48 | 0.41 | 1.58 | 0.44 | 0.056 | 15.64 |
| 13876 | 399. | 0.020 | 5.01 | 2.48 | 0.62 | 17.31 | 4.34 | 1.84 | 0.46 | 1.88 | 0.47 | 0.047 | 11.78 |
| 13877 | 383. | 0.024 | 6.27 | 2.29 | 0.60 | 17.66 | 4.61 | 1.79 | 0.47 | 1.81 | 0.47 | 0.044 | 11.49 |
| 13878 | 352. | 0.017 | 4.83 | 2.22 | 0.63 | 18.85 | 5.36 | 1.78 | 0.50 | 1.77 | 0.50 | 0.045 | 12.78 |
| 13879 | 328. | 0.020 | 6.10 | 2.37 | 0.72 | 17.67 | 5.39 | 1.61 | 0.49 | 1.69 | 0.52 | 0.044 | 13.41 |
| 13880 | 363. | 0.016 | 4.41 | 2.29 | 0.63 | 17.99 | 4.96 | 1.39 | 0.38 | 1.52 | 0.42 | 0.032 | 8.82 |
| 13881 | 323. | 0.022 | 6.81 | 2.24 | 0.69 | 18.95 | 5.87 | 1.57 | 0.49 | 1.60 | 0.50 | 0.045 | 13.93 |
| 13882 | 355. | 0.018 | 5.07 | 2.35 | 0.66 | 18.41 | 5.18 | 1.57 | 0.44 | 1.47 | 0.41 | 0.052 | 14.65 |
| 13883 | 342. | 0.011 | 3.22 | 2.26 | 0.66 | 18.20 | 5.32 | 1.49 | 0.44 | 1.63 | 0.48 | 0.040 | 11.70 |
| 13884 | 368. | 0.019 | 5.16 | 2.07 | 0.56 | 18.27 | 4.96 | 1.40 | 0.38 | 1.37 | 0.37 | 0.048 | 13.04 |
| 13885 | 336. | 0.014 | 4.17 | 2.23 | 0.66 | 13.77 | 4.10 | 1.72 | 0.51 | 1.60 | 0.48 | 0.044 | 13.10 |
| 13886 | 322. | 0.019 | 5.90 | 2.24 | 0.70 | 16.87 | 5.24 | 1.37 | 0.42 | 1.58 | 0.49 | 0.051 | 15.84 |
| 13887 | 310. | 0.015 | 4.84 | 2.14 | 0.69 | 15.59 | 5.03 | 1.31 | 0.42 | 1.31 | 0.42 | 0.030 | 9.68 |
| 13888 | 335. | 0.015 | 4.48 | 2.25 | 0.67 | 19.46 | 5.81 | 1.50 | 0.45 | 1.61 | 0.48 | 0.048 | 14.33 |
| 13889 | 340. | 0.015 | 4.41 | 2.25 | 0.66 | 14.98 | 4.40 | 1.46 | 0.43 | 1.44 | 0.42 | 0.059 | 17.35 |
| 13890 | 364. | 0.016 | 4.40 | 2.00 | 0.55 | 17.82 | 4.90 | 1.67 | 0.46 | 1.75 | 0.48 | 0.043 | 11.81 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13862 was pregnant, but did not deliver a litter; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C33 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % TBW a | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % TBW a | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13861 | 312. | 0.032 | 10.26 | 0.66 | 0.21 | 0.10 | 0.03 | 0.035 | 11.22 | 0.024 | 7.69 | 0.32 | 0.10 |
| 13862b | --- | 0.032 | ----- | 0.80 | ---- | 0.51 | ---- | 0.040 | ----- | 0.054 | ---- | 0.83 | ---- |
| 13863 | 352. | 0.047 | 13.35 | 0.72 | 0.20 | 0.19 | 0.05 | 0.042 | 11.93 | 0.050 | 14.20 | 0.54 | 0.15 |
| 13864 | 335. | 0.037 | 11.04 | 0.60 | 0.18 | 0.12 | 0.04 | 0.045 | 13.43 | 0.047 | 14.03 | 0.47 | 0.14 |
| 13865 | 353. | 0.045 | 12.75 | 0.63 | 0.18 | 0.18 | 0.05 | 0.047 | 13.31 | 0.051 | 14.45 | 0.51 | 0.14 |
| 13866 | 401. | 0.043 | 10.72 | 0.85 | 0.21 | 0.23 | 0.06 | 0.066 | 16.46 | 0.074 | 18.45 | 0.48 | 0.12 |
| 13867 | 335. | 0.043 | 12.84 | 0.76 | 0.23 | 0.20 | 0.06 | 0.064 | 19.10 | 0.053 | 15.82 | 0.50 | 0.15 |
| 13868 | 356. | 0.050 | 14.04 | 0.64 | 0.18 | 0.12 | 0.03 | 0.046 | 12.92 | 0.049 | 13.76 | 0.46 | 0.13 |
| 13869 | 357. | 0.043 | 12.04 | 0.49 | 0.14 | 0.14 | 0.04 | 0.049 | 13.72 | 0.058 | 16.25 | 0.38 | 0.11 |
| 13870 | 386. | 0.043 | 11.14 | 0.90 | 0.23 | 0.35 | 0.09 | 0.069 | 17.88 | 0.079 | 20.47 | 0.72 | 0.19 |
| 13871 | 366. | 0.048 | 13.11 | 0.89 | 0.24 | 0.19 | 0.05 | 0.037 | 10.11 | 0.059 | 16.12 | 0.40 | 0.11 |
| 13872 | 347. | 0.041 | 11.82 | 0.69 | 0.20 | 0.16 | 0.05 | 0.050 | 14.41 | 0.047 | 13.54 | 0.44 | 0.13 |
| 13873 | 346. | 0.055 | 15.90 | 1.02 | 0.29 | 0.18 | 0.05 | 0.074 | 21.39 | 0.068 | 19.65 | 0.44 | 0.13 |
| 13874 | 368. | 0.045 | 12.23 | 0.72 | 0.20 | 0.16 | 0.04 | 0.056 | 15.22 | 0.074 | 20.11 | 0.39 | 0.10 |
| 13875 | 358. | 0.046 | 12.85 | 0.56 | 0.16 | 0.19 | 0.05 | 0.054 | 15.08 | 0.058 | 16.20 | 0.56 | 0.16 |
| 13876 | 399. | 0.037 | 9.27 | 0.64 | 0.16 | 0.22 | 0.06 | 0.061 | 15.29 | 0.069 | 17.29 | 0.69 | 0.17 |
| 13877 | 383. | 0.050 | 13.05 | 0.75 | 0.20 | 0.30 | 0.08 | 0.046 | 12.01 | 0.051 | 13.32 | 0.62 | 0.16 |
| 13878 | 352. | 0.039 | 11.08 | 0.70 | 0.20 | 0.09 | 0.02 | 0.031 | 8.81 | 0.046 | 13.07 | 0.66 | 0.19 |
| 13879 | 328. | 0.035 | 10.67 | 0.69 | 0.21 | 0.30 | 0.09 | 0.077 | 23.48 | 0.087 | 26.52 | 0.50 | 0.15 |
| 13880 | 363. | 0.035 | 9.64 | 0.78 | 0.21 | 0.19 | 0.05 | 0.045 | 12.40 | 0.049 | 13.50 | 0.78 | 0.21 |
| 13881 | 323. | 0.049 | 15.17 | 0.65 | 0.20 | 0.12 | 0.04 | 0.049 | 15.17 | 0.053 | 16.41 | 0.20 | 0.06 |
| 13882 | 355. | 0.049 | 13.80 | 0.60 | 0.17 | 0.12 | 0.03 | 0.056 | 15.77 | 0.062 | 17.46 | 0.76 | 0.21 |
| 13883 | 342. | 0.038 | 11.11 | 0.75 | 0.22 | 0.25 | 0.07 | 0.093 | 27.19 | 0.060 | 17.54 | 0.52c | 0.15 |
| 13884 | 368. | 0.038 | 10.33 | 0.66 | 0.18 | 0.22 | 0.06 | 0.059 | 16.03 | 0.078 | 21.20 | 0.44 | 0.12 |
| 13885 | 336. | 0.040 | 11.90 | 0.78 | 0.23 | 0.43 | 0.13 | 0.055 | 16.37 | 0.058 | 17.26 | 0.59 | 0.18 |
| 13886 | 322. | 0.037 | 11.49 | 0.68 | 0.21 | 0.17 | 0.05 | 0.064 | 19.88 | 0.053 | 16.46 | 0.73 | 0.23 |
| 13887 | 310. | 0.030 | 9.68 | 0.75 | 0.24 | 0.29 | 0.09 | 0.035 | 11.29 | 0.046 | 14.84 | 0.77 | 0.25 |
| 13888 | 335. | 0.050 | 14.92 | 0.72 | 0.21 | 0.40 | 0.12 | 0.049 | 14.63 | 0.049 | 14.63 | 0.67 | 0.20 |
| 13889 | 340. | 0.051 | 15.00 | 0.70 | 0.20 | 0.16 | 0.05 | 0.039 | 11.47 | 0.059 | 17.35 | 0.31 | 0.09 |
| 13890 | 364. | 0.049 | 13.46 | 0.68 | 0.19 | 0.17 | 0.05 | 0.068 | 18.68 | 0.052 | 14.28 | 0.57 | 0.16 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 13862 was pregnant, but did not deliver a litter; values excluded from group averages and statistical analyses.

c. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C33 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY | | BRAIN | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a |
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13891 | 300. | 0.013 | 4.33 | 2.26 | 0.75 | 15.62 | 5.21 | 1.36 | 0.45 | 1.34 | 0.45 | 0.048 | 16.00 |
| 13892 | 366. | 0.023 | 6.28 | 2.20 | 0.60 | 21.99 | 6.01 | 1.75 | 0.48 | 1.83 | 0.50 | 0.047 | 12.84 |
| 13893 | 332. | 0.022 | 6.63 | 2.19 | 0.66 | 16.27 | 4.90 | 1.42 | 0.43 | 1.47 | 0.44 | 0.038 | 11.44 |
| 13894 | 386. | 0.017 | 4.40 | 2.28 | 0.59 | 16.90 | 4.38 | 1.83 | 0.47 | 1.81 | 0.47 | 0.058 | 15.02 |
| 13895 | 334. | 0.018 | 5.39 | 2.17 | 0.65 | 17.85 | 5.34 | 1.46 | 0.44 | 1.56 | 0.47 | 0.041 | 12.28 |
| 13896 | 376. | 0.016 | 4.26 | 2.16 | 0.57 | 18.63 | 4.95 | 1.60 | 0.42 | 1.64 | 0.44 | 0.045 | 11.97 |
| 13897 | 361. | 0.006 | 1.66 | 2.15 | 0.60 | 17.38 | 4.81 | 1.73 | 0.48 | 1.75 | 0.48 | 0.043 | 11.91 |
| 13898 | 395. | 0.018 | 4.56 | 2.27 | 0.57 | 22.41 | 5.67 | 1.60 | 0.40 | 1.69 | 0.43 | 0.060 | 15.19 |
| 13899 | 320. | 0.010 | 3.12 | 2.19 | 0.68 | 18.65 | 5.83 | 1.57 | 0.49 | 1.62 | 0.51 | 0.042 | 13.12 |
| 13900b | --- | ----- | ---- | ---- | ---- | ----- | ---- | ---- | ---- | ---- | ---- | ----- | ----- |
| 13901 | 350. | 0.016 | 4.57 | 2.32 | 0.66 | 14.85 | 4.24 | 1.51 | 0.43 | 1.56 | 0.44 | 0.048 | 13.71 |
| 13902 | 311. | 0.012 | 3.86 | 2.11 | 0.68 | 17.66 | 5.68 | 1.38 | 0.44 | 1.40 | 0.45 | 0.036 | 11.58 |
| 13903 | 318. | 0.012 | 3.77 | 2.02 | 0.64 | 15.13 | 4.76 | 1.31 | 0.41 | 1.38 | 0.43 | 0.048 | 15.09 |
| 13904 | 354. | 0.009 | 2.54 | 2.39 | 0.68 | 15.55 | 4.39 | 1.61 | 0.45 | 1.63 | 0.46 | 0.044 | 12.43 |
| 13905 | 351. | 0.018 | 5.13 | 2.14 | 0.61 | 17.49 | 4.98 | 1.42 | 0.40 | 1.52 | 0.43 | 0.053 | 15.10 |
| 13906 | 355. | 0.012 | 3.38 | 2.18 | 0.61 | 19.00 | 5.35 | 1.73 | 0.49 | 1.50 | 0.42 | 0.039 | 10.98 |
| 13907 | 337. | 0.007 | 2.08 | 2.24 | 0.66 | 18.99 | 5.64 | 1.38 | 0.41 | 1.35 | 0.40 | 0.061 | 18.10 |
| 13908 | 366. | 0.011 | 3.00 | 2.22 | 0.61 | 16.18 | 4.42 | 1.49 | 0.41 | 1.55 | 0.42 | 0.045 | 12.30 |
| 13909 | 356. | 0.013 | 3.65 | 2.16 | 0.61 | 16.55 | 4.65 | 1.46 | 0.41 | 1.50 | 0.42 | 0.041 | 11.52 |
| 13910 | 353. | 0.016 | 4.53 | 2.20 | 0.62 | 18.53 | 5.25 | 1.56 | 0.44 | 1.63 | 0.46 | 0.050 | 14.16 |
| 13911 | 327. | 0.015 | 4.59 | 2.26 | 0.69 | 16.78 | 5.13 | 1.58 | 0.48 | 1.59 | 0.49 | 0.042 | 12.84 |
| 13912 | 355. | 0.016 | 4.51 | 2.24 | 0.63 | 16.86 | 4.75 | 1.61 | 0.45 | 1.66 | 0.47 | 0.040 | 11.27 |
| 13913 | 317. | 0.022 | 6.94 | 2.24 | 0.71 | 15.08 | 4.76 | 1.35 | 0.42 | 1.52 | 0.48 | 0.047 | 14.83 |
| 13914 | 294. | 0.035 | 11.90 | 2.29 | 0.78 | 15.28 | 5.20 | 1.54 | 0.52 | 1.58 | 0.54 | 0.060 | 20.41 |
| 13915 | 323. | 0.012 | 3.72 | 2.10 | 0.65 | 14.92 | 4.62 | 1.40 | 0.43 | 1.51 | 0.47 | 0.040 | 12.38 |
| 13916 | 376. | 0.013 | 3.46 | 2.40 | 0.64 | 18.53 | 4.93 | 1.61 | 0.43 | 1.60 | 0.42 | 0.038 | 10.11 |
| 13917 | 327. | 0.022 | 6.73 | 2.31 | 0.71 | 17.29 | 5.29 | 1.55 | 0.47 | 1.44 | 0.44 | 0.046 | 14.07 |
| 13918 | 302. | 0.021 | 6.95 | 2.22 | 0.74 | 14.35 | 4.75 | 1.30 | 0.43 | 1.39 | 0.46 | 0.042 | 13.91 |
| 13919 | 329. | 0.025 | 7.60 | 2.30 | 0.70 | 17.02 | 5.17 | 1.32 | 0.40 | 1.34 | 0.41 | 0.045 | 13.68 |
| 13920 | 349. | 0.007 | 2.00 | 2.28 | 0.65 | 18.54 | 5.31 | 1.63 | 0.47 | 1.62 | 0.46 | 0.040 | 11.46 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat was not pregnant; values were not recorded.

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TABLE C33 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % TBW a | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % TBW a | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13891 | 300. | 0.042 | 14.00 | 0.61 | 0.20 | 0.11 | 0.04 | 0.035 | 11.67 | 0.044 | 14.67 | 0.41 | 0.14 |
| 13892 | 366. | 0.048 | 13.11 | 0.80 | 0.22 | 0.30 | 0.08 | 0.057 | 15.57 | 0.054 | 14.75 | 0.99 | 0.27 |
| 13893 | 332. | 0.048 | 14.46 | 0.58 | 0.17 | 0.21 | 0.06 | 0.033 | 9.94 | 0.050 | 15.06 | 0.55 | 0.16 |
| 13894 | 386. | 0.057 | 14.77 | 0.77 | 0.20 | 0.33 | 0.08 | 0.047 | 12.18 | 0.086 | 22.28 | 1.03 | 0.27 |
| 13895 | 334. | 0.034 | 10.18 | 0.77 | 0.23 | 0.31 | 0.09 | 0.056 | 16.77 | 0.054 | 16.17 | 0.40 | 0.12 |
| 13896 | 376. | 0.040 | 10.64 | 0.69 | 0.18 | 0.20 | 0.05 | 0.048 | 12.76 | 0.048 | 12.76 | 0.51 | 0.14 |
| 13897 | 361. | 0.043 | 11.91 | 0.70 | 0.19 | 0.18 | 0.05 | 0.047 | 13.02 | 0.041 | 11.36 | 0.49 | 0.14 |
| 13898 | 395. | 0.072 | 18.23 | 0.92 | 0.23 | 0.16 | 0.04 | 0.040 | 10.13 | 0.057 | 14.43 | 0.56 | 0.14 |
| 13899 | 320. | 0.034 | 10.62 | 0.74 | 0.23 | 0.13 | 0.04 | 0.047 | 14.69 | 0.046 | 14.38 | 0.44 | 0.14 |
| 13900b | --- | ----- | ----- | ---- | ---- | ---- | ---- | ----- | ----- | ----- | ----- | ---- | ---- |
| 13901 | 350. | 0.039 | 11.14 | 0.72 | 0.20 | 0.17 | 0.05 | 0.058 | 16.57 | 0.061 | 17.43 | 0.39 | 0.11 |
| 13902 | 311. | 0.034 | 10.93 | 0.55 | 0.18 | 0.19 | 0.06 | 0.037 | 11.90 | 0.058 | 18.65 | 0.49 | 0.16 |
| 13903 | 318. | 0.030 | 9.43 | 0.57 | 0.18 | 0.12 | 0.04 | 0.032 | 10.06 | 0.058 | 18.24 | 0.51 | 0.16 |
| 13904 | 354. | 0.045 | 12.71 | 0.76 | 0.21 | 0.31 | 0.09 | 0.048 | 13.56 | 0.065 | 18.36 | 0.62 | 0.18 |
| 13905 | 351. | 0.049 | 13.96 | 0.62 | 0.18 | 0.27 | 0.08 | 0.057 | 16.24 | 0.074 | 21.08 | 0.50 | 0.14 |
| 13906 | 355. | 0.038 | 10.70 | 0.64 | 0.18 | 0.15 | 0.04 | 0.044 | 12.39 | 0.048 | 13.52 | 0.57 | 0.16 |
| 13907 | 337. | 0.045 | 13.35 | 0.70 | 0.21 | 0.06 | 0.02 | 0.062 | 18.40 | 0.066 | 19.58 | 0.37 | 0.11 |
| 13908 | 366. | 0.040 | 10.93 | 0.76 | 0.21 | 0.54 | 0.15 | 0.066 | 18.03 | 0.065 | 17.76 | 1.09 | 0.30 |
| 13909 | 356. | 0.038 | 10.67 | 0.71 | 0.20 | 0.16 | 0.04 | 0.033 | 9.27 | 0.057 | 16.01 | 0.55 | 0.15 |
| 13910 | 353. | 0.047 | 13.31 | 0.65 | 0.18 | 0.16 | 0.04 | 0.063 | 17.85 | 0.052 | 14.73 | 0.45 | 0.13 |
| 13911 | 327. | 0.035 | 10.70 | 0.70 | 0.21 | 0.23 | 0.07 | 0.051 | 15.60 | 0.028 | 8.56 | 0.71 | 0.22 |
| 13912 | 355. | 0.043 | 12.11 | 0.67 | 0.19 | 0.16 | 0.04 | 0.040 | 11.27 | 0.053 | 14.93 | 0.81 | 0.23 |
| 13913 | 317. | 0.040 | 12.62 | 0.80 | 0.25 | 0.19 | 0.06 | 0.063 | 19.87 | 0.059 | 18.61 | 0.66 | 0.21 |
| 13914 | 294. | 0.059 | 20.07 | 0.69 | 0.23 | 0.17 | 0.06 | 0.051 | 17.35 | 0.053 | 18.03 | 0.44 | 0.15 |
| 13915 | 323. | 0.045 | 13.93 | 0.67 | 0.21 | 0.29 | 0.09 | 0.054 | 16.72 | 0.071 | 21.98 | 0.69 | 0.21 |
| 13916 | 376. | 0.038 | 10.11 | 0.69 | 0.18 | 0.14 | 0.04 | 0.033 | 8.78 | 0.050 | 13.30 | 0.61 | 0.16 |
| 13917 | 327. | 0.038 | 11.62 | 0.68 | 0.21 | 0.20 | 0.06 | 0.061 | 18.65 | 0.052 | 15.90 | 0.46 | 0.14 |
| 13918 | 302. | 0.038 | 12.58 | 0.65 | 0.22 | 0.18 | 0.06 | 0.046 | 15.23 | 0.049 | 16.22 | 0.57 | 0.19 |
| 13919 | 329. | 0.040 | 12.16 | 0.48 | 0.14 | 0.09 | 0.03 | 0.056 | 17.02 | 0.038 | 11.55 | 0.52 | 0.16 |
| 13920 | 349. | 0.032 | 9.17 | 0.66 | 0.19 | 0.08 | 0.02 | 0.045 | 12.89 | 0.038 | 10.89 | 0.47 | 0.13 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat was not pregnant; values were not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C33 (PAGE 9): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % TBW a | BRAIN ABS. WT. | BRAIN REL. % TBW | LIVER ABS. WT. | LIVER REL. % TBW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % TBW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % TBW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % TBW a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13921 | 357. | 0.019 | 5.32 | 2.33 | 0.65 | 19.21 | 5.38 | 1.54 | 0.43 | 1.59 | 0.44 | 0.052 | 14.56 |
| 13922 | 352. | 0.010 | 2.84 | 2.16 | 0.61 | 16.31 | 4.63 | 1.37 | 0.39 | 1.37 | 0.39 | 0.038 | 10.80 |
| 13923 | 320. | 0.012 | 3.75 | 2.15 | 0.67 | 20.04 | 6.26 | 1.41 | 0.44 | 1.38 | 0.43 | 0.042 | 13.12 |
| 13924 | 341. | 0.020 | 5.86 | 2.11 | 0.62 | 20.95 | 6.14 | 1.47 | 0.43 | 1.61 | 0.47 | 0.053 | 15.54 |
| 13925 | 318. | 0.009 | 2.83 | 2.12 | 0.67 | 15.19 | 4.78 | 1.31 | 0.41 | 1.34 | 0.42 | 0.040 | 12.58 |
| 13926 | 353. | 0.027 | 7.65 | 2.19 | 0.62 | 20.53 | 5.82 | 1.63 | 0.46 | 1.58 | 0.45 | 0.071 | 20.11 |
| 13927 | 331. | 0.011 | 3.32 | 2.07 | 0.62 | 18.60 | 5.62 | 1.47 | 0.44 | 1.60 | 0.48 | 0.069 | 20.84 |
| 13928 | 368. | 0.028 | 7.61 | 2.30 | 0.62 | 18.93 | 5.14 | 1.58 | 0.43 | 1.60 | 0.43 | 0.050 | 13.59 |
| 13929b | --- | 0.015 | ---- | 1.94 | ---- | 12.06 | ---- | 1.20 | ---- | 1.27 | ---- | 0.039 | ----- |
| 13930 | 350. | 0.019 | 5.43 | 2.24 | 0.64 | 20.69 | 5.91 | 1.47 | 0.42 | 1.62 | 0.46 | 0.039 | 11.14 |
| 13931 | 368. | 0.022 | 5.98 | 2.09 | 0.57 | 19.14 | 5.20 | 1.29 | 0.35 | 1.33 | 0.36 | 0.042 | 11.41 |
| 13932 | 357. | 0.016 | 4.48 | 2.18 | 0.61 | 20.55 | 5.76 | 1.53 | 0.43 | 1.53 | 0.43 | 0.051 | 14.28 |
| 13933 | 326. | 0.018 | 5.52 | 1.99 | 0.61 | 17.15 | 5.26 | 1.28 | 0.39 | 1.43 | 0.44 | 0.045 | 13.80 |
| 13934 | 340. | 0.012 | 3.53 | 2.16 | 0.64 | 15.00 | 4.41 | 1.42 | 0.42 | 1.50 | 0.44 | 0.039 | 11.47 |
| 13935 | 318. | 0.010 | 3.14 | 2.08 | 0.65 | 17.57 | 5.52 | 1.39 | 0.44 | 1.46 | 0.46 | 0.053 | 16.67 |
| 13936 | 349. | 0.017 | 4.87 | 2.29 | 0.66 | 18.04 | 5.17 | 1.37 | 0.39 | 1.38 | 0.40 | 0.053 | 15.19 |
| 13937 | 306. | 0.005 | 1.63 | 2.03 | 0.66 | 16.74 | 5.47 | 1.51 | 0.49 | 1.40 | 0.46 | 0.029 | 9.48 |
| 13938 | 343. | 0.016 | 4.66 | 2.25 | 0.66 | 19.00 | 5.54 | 1.58 | 0.46 | 1.63 | 0.48 | 0.056 | 16.33 |
| 13939 | 349. | 0.016 | 4.58 | 2.29 | 0.66 | 16.45 | 4.71 | 1.49 | 0.43 | 1.51 | 0.43 | 0.039 | 11.17 |
| 13940 | 353. | 0.030 | 8.50 | 2.24 | 0.63 | 18.92 | 5.36 | 1.34 | 0.38 | 1.46 | 0.41 | 0.048 | 13.60 |
| 13941 | 383. | 0.017 | 4.44 | 2.39 | 0.62 | 19.38 | 5.06 | 1.55 | 0.40 | 1.65 | 0.43 | 0.045 | 11.75 |
| 13942 | 344. | 0.006 | 1.74 | 2.19 | 0.64 | 17.21 | 5.00 | 1.46 | 0.42 | 1.37 | 0.40 | 0.030 | 8.72 |
| 13943 | 349. | 0.011 | 3.15 | 2.30 | 0.66 | 17.70 | 5.07 | 1.52 | 0.44 | 1.45 | 0.42 | 0.034 | 9.74 |
| 13944 | 341. | 0.092c | 26.98c | 2.01 | 0.59 | 16.38 | 4.80 | 1.43 | 0.42 | 1.53 | 0.45 | 0.056 | 16.42 |
| 13945 | 342. | 0.021 | 6.14 | 2.29 | 0.67 | 17.42 | 5.09 | 1.45 | 0.42 | 1.57 | 0.46 | 0.051 | 14.91 |
| 13946 | 353. | 0.009 | 2.55 | 2.04 | 0.58 | 17.13 | 4.85 | 1.22 | 0.34 | 1.33 | 0.38 | 0.032 | 9.06 |
| 13947d | --- | 0.015 | ---- | 2.05 | ---- | 11.28 | ---- | 1.18 | ---- | 1.11 | ---- | 0.048 | ----- |
| 13948 | 323. | 0.017 | 5.26 | 2.20 | 0.68 | 15.10 | 4.67 | 1.35 | 0.42 | 1.36 | 0.42 | 0.044 | 13.62 |
| 13949 | 365. | 0.013 | 3.56 | 2.09 | 0.57 | 18.90 | 5.18 | 1.53 | 0.42 | 1.55 | 0.42 | 0.046 | 12.60 |
| 13950 | 361. | 0.016 | 4.43 | 2.02 | 0.56 | 18.17 | 5.03 | 1.39 | 0.38 | 1.52 | 0.42 | 0.037 | 10.25 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Rat was not pregnant; values excluded from group averages and statistical analyses.
c. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.
d. Rat 13947 was sacrificed due to no surviving pups on day 1 of lactation; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C33 (PAGE 10): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % TBW a | SPLEEN ABS. WT. | SPLEEN REL. % TBW | THYMUS ABS. WT. | THYMUS REL. % TBW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % TBW a | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % TBW a | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13921 | 357. | 0.042 | 11.76 | 0.71 | 0.20 | 0.15 | 0.04 | 0.069 | 19.33 | 0.033 | 9.24 | 0.54 | 0.15 |
| 13922 | 352. | 0.041 | 11.65 | 0.72 | 0.20 | 0.08 | 0.02 | 0.073 | 20.74 | 0.060 | 17.04 | 0.52 | 0.15 |
| 13923 | 320. | 0.041 | 12.81 | 0.74 | 0.23 | 0.10 | 0.03 | 0.030 | 9.38 | 0.020 | 6.25 | 0.45 | 0.14 |
| 13924 | 341. | 0.045 | 13.20 | 0.52 | 0.15 | 0.16 | 0.05 | 0.106 | 31.08 | 0.055 | 16.13 | 0.40 | 0.12 |
| 13925 | 318. | 0.033 | 10.38 | 0.56 | 0.18 | 0.10 | 0.03 | 0.040 | 12.58 | 0.043 | 13.52 | 0.40 | 0.12 |
| 13926 | 353. | 0.049 | 13.88 | 0.90 | 0.25 | 0.19 | 0.05 | 0.061 | 17.28 | 0.070 | 19.83 | 0.47 | 0.13 |
| 13927 | 331. | 0.052 | 15.71 | 0.79 | 0.24 | 0.20 | 0.06 | 0.062 | 18.73 | 0.058 | 17.52 | 0.27 | 0.08 |
| 13928 | 368. | 0.036 | 9.78 | 0.84 | 0.23 | 0.20 | 0.05 | 0.049 | 13.32 | 0.060 | 16.30 | 0.60 | 0.16 |
| 13929b | --- | 0.033 | ---- | 0.46 | ---- | 0.24 | ---- | 0.036 | ---- | 0.028 | ----- | 0.86 | ---- |
| 13930 | 350. | 0.037 | 10.57 | 0.80 | 0.23 | 0.13 | 0.04 | 0.034 | 9.71 | 0.047 | 13.43 | 0.46 | 0.13 |
| 13931 | 368. | 0.039 | 10.60 | 0.82 | 0.22 | 0.20 | 0.05 | 0.056 | 15.22 | 0.050 | 13.59 | 0.58 | 0.16 |
| 13932 | 357. | 0.046 | 12.88 | 0.62 | 0.17 | 0.15 | 0.04 | 0.041 | 11.48 | 0.049 | 13.72 | 0.56 | 0.16 |
| 13933 | 326. | 0.060 | 18.40 | 0.66 | 0.20 | 0.28 | 0.08 | 0.052 | 15.95 | 0.036 | 11.04 | 0.51 | 0.16 |
| 13934 | 340. | 0.029 | 8.53 | 0.68 | 0.20 | 0.22 | 0.06 | 0.052 | 15.29 | 0.043 | 12.65 | 0.51 | 0.15 |
| 13935 | 318. | 0.056 | 17.61 | 0.61 | 0.19 | 0.06 | 0.02 | 0.056 | 17.61 | 0.046 | 14.46 | 0.76 | 0.24 |
| 13936 | 349. | 0.044 | 12.61 | 0.74 | 0.21 | 0.05 | 0.01 | 0.055 | 15.76 | 0.040 | 11.46 | 0.56 | 0.16 |
| 13937 | 306. | 0.031 | 10.13 | 0.50 | 0.16 | 0.17 | 0.06 | 0.059 | 19.28 | 0.030 | 9.80 | 0.49 | 0.16 |
| 13938 | 343. | 0.049 | 14.28 | 0.83 | 0.24 | 0.19 | 0.06 | 0.050 | 14.58 | 0.039 | 11.37 | 0.43 | 0.12 |
| 13939 | 349. | 0.037 | 10.60 | 0.75 | 0.21 | 0.21 | 0.06 | 0.055 | 15.76 | 0.074 | 21.20 | 0.43 | 0.12 |
| 13940 | 353. | 0.039 | 11.05 | 0.66 | 0.19 | 0.15 | 0.04 | 0.033 | 9.35 | 0.039 | 11.05 | 0.60 | 0.17 |
| 13941 | 383. | 0.059 | 15.40 | 0.71 | 0.18 | 0.21 | 0.05 | 0.056 | 14.62 | 0.086 | 22.45 | 0.45 | 0.12 |
| 13942 | 344. | 0.035 | 10.17 | 0.70 | 0.20 | 0.21 | 0.06 | 0.027 | 7.85 | 0.060 | 17.44 | 0.54 | 0.16 |
| 13943 | 349. | 0.042 | 12.03 | 0.75 | 0.21 | 0.15 | 0.04 | 0.059 | 16.90 | 0.052 | 14.90 | 0.51 | 0.15 |
| 13944 | 341. | 0.052 | 15.25 | 0.82 | 0.24 | 0.21 | 0.06 | 0.066 | 19.35 | 0.054 | 15.84 | 0.57 | 0.17 |
| 13945 | 342. | 0.039 | 11.40 | 0.69 | 0.20 | 0.28 | 0.08 | 0.047 | 13.74 | 0.050 | 14.62 | 0.28 | 0.08 |
| 13946 | 353. | 0.024 | 6.80 | 0.89 | 0.25 | 0.17 | 0.05 | 0.058 | 16.43 | 0.044 | 12.46 | 0.45 | 0.13 |
| 13947c | --- | 0.040 | ---- | 0.66 | ---- | 0.26 | ---- | 0.085 | ---- | 0.058 | ----- | 2.00 | ---- |
| 13948 | 323. | 0.810d | 250.77d | 0.80 | 0.25 | 0.22 | 0.07 | 0.035 | 10.84 | 0.047 | 14.55 | 0.65 | 0.20 |
| 13949 | 365. | 0.023 | 6.30 | 0.62 | 0.17 | 0.17 | 0.05 | 0.050 | 13.70 | 0.038 | 10.41 | 0.39 | 0.11 |
| 13950 | 361. | 0.041 | 11.36 | 0.72 | 0.20 | 0.18 | 0.05 | 0.060 | 16.62 | 0.046 | 12.74 | 0.65 | 0.18 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Rat was not pregnant; values excluded from group averages and statistical analyses.
c. Rat 13947 was sacrificed due to no surviving pups on day 1 of lactation; values excluded from group averages and statistical analyses.
d. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 1): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | | | |
| 13801 | 2.20 | 0.020 | 0.91 | 17.78 | 808.18 | 1.70 | 77.27 | 1.86 | 84.54 | 0.040 | 1.82 | 0.042a | 1.91 |
| 13802 | 2.30 | 0.014a | 0.61 | 21.16 | 920.00 | 1.92 | 83.48 | 2.08 | 90.43 | 0.043a | 1.87 | 0.040a | 1.74 |
| 13803 | 2.18 | 0.021 | 0.96 | 20.36 | 933.94 | 1.44 | 66.06 | 1.54 | 70.64 | 0.045 | 2.06 | 0.038 | 1.74 |
| 13804b | 1.95 | 0.008 | ---- | 11.13 | ------ | 1.21 | ----- | 1.14 | ----- | 0.031 | ---- | 0.032 | ---- |
| 13805 | 2.22 | 0.013 | 0.58 | 16.85 | 759.01 | 1.85 | 83.33 | 1.64 | 73.87 | 0.042 | 1.89 | 0.038 | 1.71 |
| 13806 | 2.13 | 0.019 | 0.89 | 20.35 | 955.40 | 1.61 | 75.59 | 1.48 | 69.48 | 0.051 | 2.39 | 0.058 | 2.72 |
| 13807 | 2.39 | 0.106c | 4.44c | 19.10 | 799.16 | 1.45 | 60.67 | 1.58 | 66.11 | 0.072 | 3.01 | 0.056 | 2.34 |
| 13808 | 2.27 | 0.013 | 0.57 | 13.72 | 604.40 | 1.45 | 63.88 | 1.55 | 68.28 | 0.047 | 2.07 | 0.046 | 2.03 |
| 13809 | 2.08 | 0.015 | 0.72 | 18.47 | 887.98 | 1.27 | 61.06 | 1.31 | 62.98 | 0.037 | 1.78 | 0.042 | 2.02 |
| 13810 | 2.27 | 0.031 | 1.36 | 20.44 | 900.44 | 1.74 | 76.65 | 1.67 | 73.57 | 0.067 | 2.95 | 0.051 | 2.25 |
| 13811d | 2.10 | 0.130 | ---- | 13.44 | ------ | 1.35 | ----- | 1.31 | ----- | 0.035 | ---- | 0.032 | ---- |
| 13812 | 2.21 | 0.013 | 0.59 | 15.92 | 720.36 | 1.48 | 66.97 | 1.44 | 65.16 | 0.034 | 1.54 | 0.037 | 1.67 |
| 13813 | 2.18 | 0.022 | 1.01 | 22.84 | 1047.71 | 1.61 | 73.85 | 1.70 | 77.98 | 0.045 | 2.06 | 0.047 | 2.16 |
| 13814 | 2.26 | 0.017 | 0.75 | 19.92 | 881.42 | 1.67 | 73.89 | 1.70 | 75.22 | 0.032 | 1.42 | 0.050 | 2.21 |
| 13815 | 2.26 | 0.017 | 0.75 | 20.15 | 891.59 | 1.77 | 78.32 | 1.60 | 70.80 | 0.045 | 1.99 | 0.041 | 1.81 |
| 13816 | 2.15 | 0.018 | 0.84 | 17.21 | 800.46 | 1.52 | 70.70 | 1.46 | 67.91 | 0.059 | 2.74 | 0.051 | 2.37 |
| 13817 | 2.31 | 0.018 | 0.78 | 17.80 | 770.56 | 1.30 | 56.28 | 1.33 | 57.58 | 0.043 | 1.86 | 0.041 | 1.77 |
| 13818 | 2.53 | 0.014 | 0.55 | 24.99 | 987.75 | 1.75 | 69.17 | 1.92 | 75.89 | 0.059 | 2.33 | 0.057 | 2.25 |
| 13819 | 2.30 | 0.018 | 0.78 | 19.63 | 853.48 | 1.49 | 64.78 | 1.52 | 66.09 | 0.041 | 1.78 | 0.040 | 1.74 |
| 13820 | 2.06 | 0.012 | 0.58 | 16.32 | 792.23 | 1.57 | 76.21 | 1.50 | 72.82 | 0.038 | 1.84 | 0.047 | 2.28 |
| 13821 | 1.86 | 0.016 | 0.86 | 17.26 | 927.96 | 1.53 | 82.26 | 1.58 | 84.95 | 0.043 | 2.31 | 0.042 | 2.26 |
| 13822e | 2.31 | 0.023 | ---- | 13.61 | ------ | 1.15 | ----- | 1.13 | ----- | 0.048 | ---- | 0.059 | ---- |
| 13823 | 2.30 | 0.018 | 0.78 | 17.43 | 757.83 | 1.45 | 63.04 | 1.54 | 66.96 | 0.035 | 1.52 | 0.032 | 1.39 |
| 13824 | 2.31 | 0.016 | 0.69 | 20.80 | 900.43 | 1.60 | 69.26 | 1.61 | 69.70 | 0.040 | 1.73 | 0.038 | 1.64 |
| 13825 | 2.19 | 0.018 | 0.82 | 16.81 | 767.58 | 1.58 | 72.15 | 1.47 | 67.12 | 0.047 | 2.15 | 0.047a | 2.15 |
| 13826 | 2.21 | 0.027 | 1.22 | 21.80 | 986.42 | 1.74 | 78.73 | 1.71 | 77.38 | 0.046 | 2.08 | 0.043 | 1.94 |
| 13827 | 2.40 | 0.025 | 1.04 | 18.52 | 771.67 | 1.49 | 62.08 | 1.53 | 63.75 | 0.056 | 2.33 | 0.047 | 1.96 |
| 13828 | 2.28 | 0.022 | 0.96 | 16.69 | 732.02 | 1.50 | 65.79 | 1.43 | 62.72 | 0.050 | 2.19 | 0.050 | 2.19 |
| 13829 | 2.07 | 0.015 | 0.72 | 15.27 | 737.68 | 1.34 | 64.73 | 1.32 | 63.77 | 0.041 | 1.98 | 0.054 | 2.61 |
| 13830 | 2.18 | 0.023 | 1.06 | 17.04 | 781.65 | 1.51 | 69.27 | 1.44 | 66.06 | 0.026 | 1.19 | 0.032 | 1.47 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Fixed weight.
b. Rat 13804 was moribund sacrificed on day 68 of study; values excluded from group averages and statistical analyses.
c. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.
d. Rat was not pregnant; values excluded from group averages and statistical analyses.
e. Rat 13822 was sacrificed on day 8 of lactation; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 2): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % BRW | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % BRW | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP I | | 0 MG/KG/DAY | | | | | | | | | |
| 13801 | 2.20 | 0.68 | 30.91 | 0.24 | 10.91 | 0.060a | 2.73 | 0.072a | 3.27 | 0.52 | 23.64 |
| 13802 | 2.30 | 0.78 | 33.91 | 0.70 | 30.43 | 0.047a | 2.04 | 0.061a | 2.65 | 0.54 | 23.48 |
| 13803 | 2.18 | 0.72 | 33.03 | 0.18 | 8.26 | 0.061 | 2.80 | 0.036 | 1.65 | 0.51 | 23.39 |
| 13804b | 1.95 | 0.56 | ----- | 0.55 | ---- | 0.054 | ---- | 0.061 | ---- | 0.29 | ----- |
| 13805 | 2.22 | 0.66 | 29.73 | 0.26 | 11.71 | 0.045 | 2.03 | 0.046 | 2.07 | 0.68 | 30.63 |
| 13806 | 2.13 | 0.74 | 34.74 | 0.09 | 4.22 | 0.049 | 2.30 | 0.056 | 2.63 | 0.51 | 23.94 |
| 13807 | 2.39 | 0.74 | 30.96 | 0.06 | 2.51 | 0.040 | 1.67 | 0.046 | 1.92 | 0.45 | 18.83 |
| 13808 | 2.27 | 0.72 | 31.72 | 0.20 | 8.81 | 0.054 | 2.38 | 0.047 | 2.07 | 0.57 | 25.11 |
| 13809 | 2.08 | 0.52 | 25.00 | 0.07 | 3.36 | 0.038 | 1.83 | 0.044 | 2.12 | 0.42 | 20.19 |
| 13810 | 2.27 | 0.75 | 33.04 | 0.26 | 11.45 | 0.062 | 2.73 | 0.052 | 2.29 | 0.73 | 32.16 |
| 13811c | 2.10 | 0.73 | ----- | 0.46 | ---- | 0.033 | ---- | 0.055 | ---- | 0.54 | ----- |
| 13812 | 2.21 | 0.53 | 23.98 | 0.14 | 6.33 | 0.046 | 2.08 | 0.042 | 1.90 | 0.48 | 21.72 |
| 13813 | 2.18 | 0.60 | 27.52 | 0.28 | 12.84 | 0.055 | 2.52 | 0.056 | 2.57 | 0.63 | 28.90 |
| 13814 | 2.26 | 0.73 | 32.30 | 0.21 | 9.29 | 0.041 | 1.81 | 0.064 | 2.83 | 0.51 | 22.57 |
| 13815 | 2.26 | 0.86 | 38.05 | 0.23 | 10.18 | 0.038 | 1.68 | 0.062 | 2.74 | 0.58 | 25.66 |
| 13816 | 2.15 | 0.52 | 24.19 | 0.26 | 12.09 | 0.047 | 2.19 | 0.047 | 2.19 | 0.47 | 21.86 |
| 13817 | 2.31 | 0.55 | 23.81 | 0.13 | 5.63 | 0.043 | 1.86 | 0.036 | 1.56 | 0.52 | 22.51 |
| 13818 | 2.53 | 0.75 | 29.64 | 0.15 | 5.93 | 0.070 | 2.77 | 0.051 | 2.02 | 0.05 | 1.98 |
| 13819 | 2.30 | 0.73 | 31.74 | 0.19 | 8.26 | 0.044 | 1.91 | 0.042 | 1.83 | 0.51 | 22.17 |
| 13820 | 2.06 | 0.66 | 32.04 | 0.17 | 8.25 | 0.040 | 1.94 | 0.051 | 2.48 | 0.54 | 26.21 |
| 13821 | 1.86 | 0.57 | 30.64 | 0.22 | 11.83 | 0.058 | 3.12 | 0.072 | 3.87 | 0.61 | 32.80 |
| 13822d | 2.31 | 0.65 | ----- | 0.23 | ---- | 0.063 | ---- | 0.076 | ---- | 0.53 | ----- |
| 13823 | 2.30 | 0.73 | 31.74 | 0.19 | 8.26 | 0.071 | 3.09 | 0.049 | 2.13 | 0.53 | 23.04 |
| 13824 | 2.31 | 0.70 | 30.30 | 0.26 | 11.26 | 0.068 | 2.94 | 0.071 | 3.07 | 0.41 | 17.75 |
| 13825 | 2.19 | 0.74 | 33.79 | 0.26 | 11.87 | 0.052 | 2.37 | 0.053 | 2.42 | 0.65 | 29.68 |
| 13826 | 2.21 | 0.62 | 28.05 | 0.18 | 8.14 | 0.056 | 2.53 | 0.073 | 3.30 | 0.30 | 13.57 |
| 13827 | 2.40 | 0.81 | 33.75 | 0.36 | 15.00 | 0.049 | 2.04 | 0.069 | 2.88 | 0.65 | 27.08 |
| 13828 | 2.28 | 0.70 | 30.70 | 0.22 | 9.65 | 0.080 | 3.51 | 0.054 | 2.37 | 0.54 | 23.68 |
| 13829 | 2.07 | 0.54 | 26.09 | 0.17 | 8.21 | 0.054 | 2.61 | 0.048 | 2.32 | 0.48 | 23.19 |
| 13830 | 2.18 | 0.57 | 26.15 | 0.19 | 8.72 | 0.042 | 1.93 | 0.037 | 1.70 | 0.77 | 35.32 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Fixed weight.
b. Rat 13804 was moribund sacrificed on day 68 of study; values excluded from group averages and statistical analyses.
c. Rat was not pregnant; values excluded from group averages and statistical analyses.
d. Rat 13822 was sacrificed on day 8 of lactation; values excluded from group averages and statistical analyses.

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TABLE C34 (PAGE 3): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13831 | 2.17 | 0.026 | 1.20 | 21.35 | 983.87 | 1.63 | 75.12 | 1.67 | 76.96 | 0.048 | 2.21 | 0.040 | 1.84 |
| 13832 | 2.31 | 0.015 | 0.65 | 18.12 | 784.42 | 1.48 | 64.07 | 1.51 | 65.37 | 0.049 | 2.12 | 0.040 | 1.73 |
| 13833 | 2.23 | 0.019 | 0.85 | 17.51 | 785.20 | 1.48 | 66.37 | 1.57 | 70.40 | 0.055 | 2.47 | 0.052 | 2.33 |
| 13834 | 2.26 | 0.013 | 0.58 | 16.32 | 722.12 | 1.32 | 58.41 | 1.38 | 61.06 | 0.040 | 1.77 | 0.038 | 1.68 |
| 13835 | 2.38 | 0.019 | 0.80 | 20.02 | 841.18 | 1.74 | 73.11 | 1.61 | 67.65 | 0.059 | 2.48 | 0.046 | 1.93 |
| 13836a | 1.91 | 0.017 | ---- | 10.07 | ------ | 1.28 | ----- | 1.24 | ----- | 0.038 | ---- | 0.039 | ---- |
| 13837 | 2.07 | 0.024 | 1.16 | 20.19 | 975.36 | 1.49 | 71.98 | 1.60 | 77.29 | 0.049 | 2.37 | 0.042 | 2.03 |
| 13838 | 2.45 | 0.021 | 0.86 | 18.97 | 774.28 | 1.73 | 70.61 | 1.80 | 73.47 | 0.050 | 2.04 | 0.055 | 2.24 |
| 13839 | 2.30 | 0.013 | 0.56 | 19.83 | 862.17 | 1.58 | 68.70 | 1.57 | 68.26 | 0.055 | 2.39 | 0.051 | 2.22 |
| 13840b | 1.98 | 0.018 | ---- | 11.67 | ------ | 1.28 | ----- | 1.52 | ----- | 0.053 | ---- | 0.049 | ---- |
| 13841 | 2.18 | 0.016 | 0.73 | 18.14 | 832.11 | 1.75 | 80.28 | 1.81 | 83.03 | 0.077 | 3.53 | 0.060 | 2.75 |
| 13842 | 2.20 | 0.017 | 0.77 | 18.85 | 856.82 | 1.62 | 73.64 | 1.73 | 78.64 | 0.052 | 2.36 | 0.046 | 2.09 |
| 13843 | 2.20 | 0.015 | 0.68 | 14.05 | 638.64 | 1.41 | 64.09 | 1.51 | 68.64 | 0.039 | 1.77 | 0.030 | 1.36 |
| 13844 | 2.18 | 0.023 | 1.06 | 22.15 | 1016.06 | 1.86 | 85.32 | 1.86 | 85.32 | 0.061 | 2.80 | 0.047 | 2.16 |
| 13845 | 2.40 | 0.026 | 1.08 | 19.06 | 794.17 | 1.56 | 65.00 | 1.67 | 69.58 | 0.047 | 1.96 | 0.049 | 2.04 |
| 13846 | 2.26 | 0.013 | 0.58 | 16.47 | 728.76 | 1.64 | 72.57 | 1.49 | 65.93 | 0.050 | 2.21 | 0.042 | 1.86 |
| 13847 | 2.26 | 0.019 | 0.84 | 16.51 | 730.53 | 1.51 | 66.81 | 1.68 | 74.34 | 0.033 | 1.46 | 0.034 | 1.50 |
| 13848 | 1.75 | 0.018 | 1.03 | 15.39 | 879.43 | 1.67 | 95.43 | 1.58 | 90.28 | 0.051 | 2.91 | 0.046 | 2.63 |
| 13849 | 2.20 | 0.027 | 1.23 | 18.37 | 835.00 | 1.57 | 71.36 | 1.50 | 68.18 | 0.039 | 1.77 | 0.035 | 1.59 |
| 13850 | 2.39 | 0.020 | 0.84 | 19.60 | 820.08 | 1.79 | 74.90 | 1.87 | 78.24 | 0.058 | 2.43 | 0.050 | 2.09 |
| 13851b | 1.91 | 0.017 | ---- | 10.61 | ------ | 1.19 | ----- | 1.16 | ----- | 0.034 | ---- | 0.039 | ---- |
| 13852c | 2.15 | 0.017 | ---- | 13.39 | ------ | 1.32 | ----- | 1.28 | ----- | 0.058 | ---- | 0.043 | ---- |
| 13853 | 2.03 | 0.018 | 0.89 | 16.88 | 831.53 | 1.64 | 80.79 | 1.63 | 80.30 | 0.053 | 2.61 | 0.061 | 3.00 |
| 13854 | 2.32 | 0.014 | 0.60 | 20.77 | 895.26 | 1.70 | 73.28 | 1.80 | 77.59 | 0.059 | 2.54 | 0.052 | 2.24 |
| 13855 | 2.23 | 0.018 | 0.81 | 15.43 | 691.93 | 1.39 | 62.33 | 1.29 | 57.85 | 0.040 | 1.79 | 0.048 | 2.15 |
| 13856 | 2.19 | 0.025 | 1.14 | 18.95 | 865.30 | 1.43 | 65.30 | 1.49 | 68.04 | 0.059 | 2.69 | 0.059 | 2.69 |
| 13857 | 2.04 | 0.009 | 0.44 | 15.95 | 781.86 | 1.29 | 63.24 | 1.53 | 75.00 | 0.044 | 2.16 | 0.036 | 1.76 |
| 13858 | 2.15 | 0.011 | 0.51 | 17.69 | 822.79 | 1.60 | 74.42 | 1.53 | 71.16 | 0.057 | 2.65 | 0.043 | 2.00 |
| 13859 | 2.10 | 0.024 | 1.14 | 16.36 | 779.05 | 1.58 | 75.24 | 1.59 | 75.71 | 0.050 | 2.38 | 0.050 | 2.38 |
| 13860 | 2.22 | 0.023 | 1.04 | 14.25 | 641.89 | 1.57 | 70.72 | 1.58 | 71.17 | 0.048 | 2.16 | 0.052 | 2.34 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13836 was moribund sacrificed on day 59 of study; values excluded from group averages and statistical analyses.

b. Rat was not pregnant; values excluded from group averages and statistical analyses.

c. Rat 13852 was sacrificed on day 11 of lactation; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 4): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % BRW | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % BRW | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | | | | |
| 13831 | 2.17 | 0.74 | 34.10 | 0.14 | 6.45 | 0.072 | 3.32 | 0.065 | 3.00 | 0.58 | 26.73 |
| 13832 | 2.31 | 0.79 | 34.20 | 0.14 | 6.06 | 0.051 | 2.21 | 0.041 | 1.77 | 0.62 | 26.84 |
| 13833 | 2.23 | 0.72 | 32.29 | 0.24 | 10.76 | 0.050 | 2.24 | 0.065 | 2.91 | 0.41 | 18.38 |
| 13834 | 2.26 | 0.67 | 29.65 | 0.15 | 6.64 | 0.050 | 2.21 | 0.074 | 3.27 | 0.37 | 16.37 |
| 13835 | 2.38 | 0.64 | 26.89 | 0.21 | 8.82 | 0.037 | 1.55 | 0.045 | 1.89 | 0.50 | 21.01 |
| 13836a | 1.91 | 0.49 | ----- | 0.34 | ---- | 0.049 | ---- | 0.057 | ---- | 0.53 | ----- |
| 13837 | 2.07 | 0.81 | 39.13 | 0.29 | 14.01 | 0.055 | 2.66 | 0.065 | 3.14 | 1.10 | 53.14 |
| 13838 | 2.45 | 0.66 | 26.94 | 0.20 | 8.16 | 0.062 | 2.53 | 0.050 | 2.04 | 0.60 | 24.49 |
| 13839 | 2.30 | 0.82 | 35.65 | 0.21 | 9.13 | 0.046 | 2.00 | 0.051 | 2.22 | 0.48 | 20.87 |
| 13840b | 1.98 | 0.59 | ----- | 0.35 | ---- | 0.064 | ---- | 0.064 | ---- | 0.59 | ----- |
| 13841 | 2.18 | 0.65 | 29.82 | 0.18 | 8.26 | 0.066 | 3.03 | 0.111 | 5.09 | 0.55 | 25.23 |
| 13842 | 2.20 | 0.67 | 30.45 | 0.22 | 10.00 | 0.077 | 3.50 | 0.050 | 2.27 | 0.75 | 34.09 |
| 13843 | 2.20 | 0.54 | 24.54 | 0.19 | 8.64 | 0.047 | 2.14 | 0.057 | 2.59 | 0.63 | 28.64 |
| 13844 | 2.18 | 0.79 | 36.24 | 0.15 | 6.88 | 0.042 | 1.93 | 0.051 | 2.34 | 0.51 | 23.39 |
| 13845 | 2.40 | 0.51 | 21.25 | 0.17 | 7.08 | 0.094 | 3.92 | 0.102 | 4.25 | 0.32 | 13.33 |
| 13846 | 2.26 | 0.48 | 21.24 | 0.14 | 6.19 | 0.037 | 1.64 | 0.036 | 1.59 | 0.64 | 28.32 |
| 13847 | 2.26 | 0.71 | 31.42 | 0.24 | 10.62 | 0.054 | 2.39 | 0.060 | 2.65 | 0.72 | 31.86 |
| 13848 | 1.75 | 0.61 | 34.86 | 0.21 | 12.00 | 0.049 | 2.80 | 0.046 | 2.63 | 0.36 | 20.57 |
| 13849 | 2.20 | 0.68 | 30.91 | 0.10 | 4.54 | 0.034 | 1.54 | 0.043 | 1.95 | 0.43 | 19.54 |
| 13850 | 2.39 | 0.64 | 26.78 | 0.20 | 8.37 | 0.034 | 1.42 | 0.066 | 2.76 | 0.84 | 35.15 |
| 13851b | 1.91 | 0.60 | ----- | 0.27 | ---- | 0.033 | ---- | 0.039 | ---- | 1.24 | ----- |
| 13852c | 2.15 | 0.59 | ----- | 0.24 | ---- | 0.049 | ---- | 0.066 | ---- | 0.45 | ----- |
| 13853 | 2.03 | 0.70 | 34.48 | 0.22 | 10.84 | 0.082 | 4.04 | 0.037 | 1.82 | 1.23 | 60.59 |
| 13854 | 2.32 | 0.83 | 35.78 | 0.29 | 12.50 | 0.075 | 3.23 | 0.043 | 1.85 | 0.54 | 23.28 |
| 13855 | 2.23 | 0.78 | 34.98 | 0.16 | 7.17 | 0.077 | 3.45 | 0.066 | 2.96 | 0.64 | 28.70 |
| 13856 | 2.19 | 0.79 | 36.07 | 0.22 | 10.04 | 0.045 | 2.05 | 0.055 | 2.51 | 0.52 | 23.74 |
| 13857 | 2.04 | 0.69 | 33.82 | 0.21 | 10.29 | 0.032 | 1.57 | 0.041 | 2.01 | 0.47 | 23.04 |
| 13858 | 2.15 | 0.71 | 33.02 | 0.22 | 10.23 | 0.053 | 2.46 | 0.062 | 2.88 | 0.47 | 21.86 |
| 13859 | 2.10 | 0.75 | 35.71 | 0.13 | 6.19 | 0.046 | 2.19 | 0.044 | 2.10 | 0.43 | 20.48 |
| 13860 | 2.22 | 0.62 | 27.93 | 0.20 | 9.01 | 0.053 | 2.39 | 0.060 | 2.70 | 0.70 | 31.53 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13836 was moribund sacrificed on day 59 of study; values excluded from group averages and statistical analyses.

b. Rat was not pregnant; values excluded from group averages and statistical analyses.

c. Rat 13852 was sacrificed on day 11 of lactation; values excluded from group averages and statistical analyses.

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TABLE C34 (PAGE 5): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | | | |
| 13861 | 2.11 | 0.014 | 0.66 | 17.99 | 852.61 | 1.59 | 75.36 | 1.58 | 74.88 | 0.044 | 2.08 | 0.032 | 1.52 |
| 13862a | 2.16 | 0.014 | ---- | 15.04 | ------ | 1.58 | ----- | 1.66 | ----- | 0.033 | ---- | 0.032 | ---- |
| 13863 | 2.12 | 0.014 | 0.66 | 20.98 | 989.62 | 1.48 | 69.81 | 1.67 | 78.77 | 0.044 | 2.08 | 0.047 | 2.22 |
| 13864 | 2.03 | 0.011 | 0.54 | 16.43 | 809.36 | 1.33 | 65.52 | 1.35 | 66.50 | 0.039 | 1.92 | 0.037 | 1.82 |
| 13865 | 2.28 | 0.014 | 0.61 | 17.78 | 779.82 | 1.53 | 67.10 | 1.59 | 69.74 | 0.049 | 2.15 | 0.045 | 1.97 |
| 13866 | 1.94 | 0.018 | 0.93 | 20.32 | 1047.42 | 1.86 | 95.88 | 1.75 | 90.21 | 0.031 | 1.60 | 0.043 | 2.22 |
| 13867 | 2.19 | 0.014 | 0.64 | 15.19 | 693.61 | 1.54 | 70.32 | 1.56 | 71.23 | 0.052 | 2.37 | 0.043 | 1.96 |
| 13868 | 2.22 | 0.028 | 1.26 | 18.68 | 841.44 | 1.69 | 76.13 | 1.77 | 79.73 | 0.073 | 3.29 | 0.050 | 2.25 |
| 13869 | 2.25 | 0.016 | 0.71 | 17.99 | 799.56 | 1.63 | 72.44 | 1.62 | 72.00 | 0.045 | 2.00 | 0.043 | 1.91 |
| 13870 | 2.36 | 0.020 | 0.85 | 21.82 | 924.58 | 2.11 | 89.41 | 2.03 | 86.02 | 0.048 | 2.03 | 0.043 | 1.82 |
| 13871 | 2.30 | 0.014 | 0.61 | 19.76 | 859.13 | 1.55 | 67.39 | 1.65 | 71.74 | 0.065 | 2.83 | 0.048 | 2.09 |
| 13872 | 2.33 | 0.022 | 0.94 | 17.22 | 739.06 | 1.44 | 61.80 | 1.48 | 63.52 | 0.050 | 2.14 | 0.041 | 1.76 |
| 13873 | 2.15 | 0.016 | 0.74 | 17.19 | 799.53 | 1.54 | 71.63 | 1.64 | 76.28 | 0.065 | 3.02 | 0.055 | 2.56 |
| 13874 | 2.46 | 0.023 | 0.93 | 15.63 | 635.36 | 1.61 | 65.45 | 1.70 | 69.10 | 0.050 | 2.03 | 0.045 | 1.83 |
| 13875 | 2.07 | 0.018 | 0.87 | 18.99 | 917.39 | 1.48 | 71.50 | 1.58 | 76.33 | 0.056 | 2.70 | 0.046 | 2.22 |
| 13876 | 2.48 | 0.020 | 0.81 | 17.31 | 697.98 | 1.84 | 74.19 | 1.88 | 75.81 | 0.047 | 1.90 | 0.037 | 1.49 |
| 13877 | 2.29 | 0.024 | 1.05 | 17.66 | 771.18 | 1.79 | 78.16 | 1.81 | 79.04 | 0.044 | 1.92 | 0.050 | 2.18 |
| 13878 | 2.22 | 0.017 | 0.76 | 18.85 | 849.10 | 1.78 | 80.18 | 1.77 | 79.73 | 0.045 | 2.03 | 0.039 | 1.76 |
| 13879 | 2.37 | 0.020 | 0.84 | 17.67 | 745.57 | 1.61 | 67.93 | 1.69 | 71.31 | 0.044 | 1.86 | 0.035 | 1.48 |
| 13880 | 2.29 | 0.016 | 0.70 | 17.99 | 785.59 | 1.39 | 60.70 | 1.52 | 66.38 | 0.032 | 1.40 | 0.035 | 1.53 |
| 13881 | 2.24 | 0.022 | 0.98 | 18.95 | 845.98 | 1.57 | 70.09 | 1.60 | 71.43 | 0.045 | 2.01 | 0.049 | 2.19 |
| 13882 | 2.35 | 0.018 | 0.76 | 18.41 | 783.40 | 1.57 | 66.81 | 1.47 | 62.55 | 0.052 | 2.21 | 0.049 | 2.08 |
| 13883 | 2.26 | 0.011 | 0.49 | 18.20 | 805.31 | 1.49 | 65.93 | 1.63 | 72.12 | 0.040 | 1.77 | 0.038 | 1.68 |
| 13884 | 2.07 | 0.019 | 0.92 | 18.27 | 882.61 | 1.40 | 67.63 | 1.37 | 66.18 | 0.048 | 2.32 | 0.038 | 1.84 |
| 13885 | 2.23 | 0.014 | 0.63 | 13.77 | 617.49 | 1.72 | 77.13 | 1.60 | 71.75 | 0.044 | 1.97 | 0.040 | 1.79 |
| 13886 | 2.24 | 0.019 | 0.85 | 16.87 | 753.12 | 1.37 | 61.16 | 1.58 | 70.54 | 0.051 | 2.28 | 0.037 | 1.65 |
| 13887 | 2.14 | 0.015 | 0.70 | 15.59 | 728.50 | 1.31 | 61.21 | 1.31 | 61.21 | 0.030 | 1.40 | 0.030 | 1.40 |
| 13888 | 2.25 | 0.015 | 0.67 | 19.46 | 864.89 | 1.50 | 66.67 | 1.61 | 71.56 | 0.048 | 2.13 | 0.050 | 2.22 |
| 13889 | 2.25 | 0.015 | 0.67 | 14.98 | 665.78 | 1.46 | 64.89 | 1.44 | 64.00 | 0.059 | 2.62 | 0.051 | 2.27 |
| 13890 | 2.00 | 0.016 | 0.80 | 17.82 | 891.00 | 1.67 | 83.50 | 1.75 | 87.50 | 0.043 | 2.15 | 0.049 | 2.45 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Rat 13862 was pregnant, but did not deliver a litter; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 6): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % BRW | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % BRW | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP III | | 3 MG/KG/DAY | | | | | | | | | |
| 13861 | 2.11 | 0.66 | 31.28 | 0.10 | 4.74 | 0.035 | 1.66 | 0.024 | 1.14 | 0.32 | 15.16 |
| 13862a | 2.16 | 0.80 | ----- | 0.51 | ---- | 0.040 | ---- | 0.054 | ---- | 0.83 | ----- |
| 13863 | 2.12 | 0.72 | 33.96 | 0.19 | 8.96 | 0.042 | 1.98 | 0.050 | 2.36 | 0.54 | 25.47 |
| 13864 | 2.03 | 0.60 | 29.56 | 0.12 | 5.91 | 0.045 | 2.22 | 0.047 | 2.32 | 0.47 | 23.15 |
| 13865 | 2.28 | 0.63 | 27.63 | 0.18 | 7.89 | 0.047 | 2.06 | 0.051 | 2.24 | 0.51 | 22.37 |
| 13866 | 1.94 | 0.85 | 43.81 | 0.23 | 11.86 | 0.066 | 3.40 | 0.074 | 3.81 | 0.48 | 24.74 |
| 13867 | 2.19 | 0.76 | 34.70 | 0.20 | 9.13 | 0.064 | 2.92 | 0.053 | 2.42 | 0.50 | 22.83 |
| 13868 | 2.22 | 0.64 | 28.83 | 0.12 | 5.40 | 0.046 | 2.07 | 0.049 | 2.21 | 0.46 | 20.72 |
| 13869 | 2.25 | 0.49 | 21.78 | 0.14 | 6.22 | 0.049 | 2.18 | 0.058 | 2.58 | 0.38 | 16.89 |
| 13870 | 2.36 | 0.90 | 38.14 | 0.35 | 14.83 | 0.069 | 2.92 | 0.079 | 3.35 | 0.72 | 30.51 |
| 13871 | 2.30 | 0.89 | 38.70 | 0.19 | 8.26 | 0.037 | 1.61 | 0.059 | 2.56 | 0.40 | 17.39 |
| 13872 | 2.33 | 0.69 | 29.61 | 0.16 | 6.87 | 0.050 | 2.14 | 0.047 | 2.02 | 0.44 | 18.88 |
| 13873 | 2.15 | 1.02 | 47.44 | 0.18 | 8.37 | 0.074 | 3.44 | 0.068 | 3.16 | 0.44 | 20.46 |
| 13874 | 2.46 | 0.72 | 29.27 | 0.16 | 6.50 | 0.056 | 2.28 | 0.074 | 3.01 | 0.39 | 15.85 |
| 13875 | 2.07 | 0.56 | 27.05 | 0.19 | 9.18 | 0.054 | 2.61 | 0.058 | 2.80 | 0.56 | 27.05 |
| 13876 | 2.48 | 0.64 | 25.81 | 0.22 | 8.87 | 0.061 | 2.46 | 0.069 | 2.78 | 0.69 | 27.82 |
| 13877 | 2.29 | 0.75 | 32.75 | 0.30 | 13.10 | 0.046 | 2.01 | 0.051 | 2.23 | 0.62 | 27.07 |
| 13878 | 2.22 | 0.70 | 31.53 | 0.09 | 4.05 | 0.031 | 1.40 | 0.046 | 2.07 | 0.66 | 29.73 |
| 13879 | 2.37 | 0.69 | 29.11 | 0.30 | 12.66 | 0.077 | 3.25 | 0.087 | 3.67 | 0.50 | 21.10 |
| 13880 | 2.29 | 0.78 | 34.06 | 0.19 | 8.30 | 0.045 | 1.96 | 0.049 | 2.14 | 0.78 | 34.06 |
| 13881 | 2.24 | 0.65 | 29.02 | 0.12 | 5.36 | 0.049 | 2.19 | 0.053 | 2.37 | 0.20 | 8.93 |
| 13882 | 2.35 | 0.60 | 25.53 | 0.12 | 5.11 | 0.056 | 2.38 | 0.062 | 2.64 | 0.76 | 32.34 |
| 13883 | 2.26 | 0.75 | 33.18 | 0.25 | 11.06 | 0.093 | 4.12 | 0.060 | 2.65 | 0.52b | 23.01 |
| 13884 | 2.07 | 0.66 | 31.88 | 0.22 | 10.63 | 0.059 | 2.85 | 0.078 | 3.77 | 0.44 | 21.26 |
| 13885 | 2.23 | 0.78 | 34.98 | 0.43 | 19.28 | 0.055 | 2.47 | 0.058 | 2.60 | 0.59 | 26.46 |
| 13886 | 2.24 | 0.68 | 30.36 | 0.17 | 7.59 | 0.064 | 2.86 | 0.053 | 2.37 | 0.73 | 32.59 |
| 13887 | 2.14 | 0.75 | 35.05 | 0.29 | 13.55 | 0.035 | 1.64 | 0.046 | 2.15 | 0.77 | 35.98 |
| 13888 | 2.25 | 0.72 | 32.00 | 0.40 | 17.78 | 0.049 | 2.18 | 0.049 | 2.18 | 0.67 | 29.78 |
| 13889 | 2.25 | 0.70 | 31.11 | 0.16 | 7.11 | 0.039 | 1.73 | 0.059 | 2.62 | 0.31 | 13.78 |
| 13890 | 2.00 | 0.68 | 34.00 | 0.17 | 8.50 | 0.068 | 3.40 | 0.052 | 2.60 | 0.57 | 28.50 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 13862 was pregnant, but did not deliver a litter; values excluded from group averages and statistical analyses.

b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 7): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | | | |
| 13891 | 2.26 | 0.013 | 0.58 | 15.62 | 691.15 | 1.36 | 60.18 | 1.34 | 59.29 | 0.048 | 2.12 | 0.042 | 1.86 |
| 13892 | 2.20 | 0.023 | 1.04 | 21.99 | 999.54 | 1.75 | 79.54 | 1.83 | 83.18 | 0.047 | 2.14 | 0.048 | 2.18 |
| 13893 | 2.19 | 0.022 | 1.00 | 16.27 | 742.92 | 1.42 | 64.84 | 1.47 | 67.12 | 0.038 | 1.74 | 0.048 | 2.19 |
| 13894 | 2.28 | 0.017 | 0.74 | 16.90 | 741.23 | 1.83 | 80.26 | 1.81 | 79.38 | 0.058 | 2.54 | 0.057 | 2.50 |
| 13895 | 2.17 | 0.018 | 0.83 | 17.85 | 822.58 | 1.46 | 67.28 | 1.56 | 71.89 | 0.041 | 1.89 | 0.034 | 1.57 |
| 13896 | 2.16 | 0.016 | 0.74 | 18.63 | 862.50 | 1.60 | 74.07 | 1.64 | 75.92 | 0.045 | 2.08 | 0.040 | 1.85 |
| 13897 | 2.15 | 0.006 | 0.28 | 17.38 | 808.37 | 1.73 | 80.46 | 1.75 | 81.40 | 0.043 | 2.00 | 0.043 | 2.00 |
| 13898 | 2.27 | 0.018 | 0.79 | 22.41 | 987.22 | 1.60 | 70.48 | 1.69 | 74.45 | 0.060 | 2.64 | 0.072 | 3.17 |
| 13899 | 2.19 | 0.010 | 0.46 | 18.65 | 851.60 | 1.57 | 71.69 | 1.62 | 73.97 | 0.042 | 1.92 | 0.034 | 1.55 |
| 13900a | ---- | ----- | ---- | ----- | ------ | ---- | ----- | ---- | ----- | ----- | ---- | ----- | ---- |
| 13901 | 2.32 | 0.016 | 0.69 | 14.85 | 640.09 | 1.51 | 65.09 | 1.56 | 67.24 | 0.048 | 2.07 | 0.039 | 1.68 |
| 13902 | 2.11 | 0.012 | 0.57 | 17.66 | 836.97 | 1.38 | 65.40 | 1.40 | 66.35 | 0.036 | 1.71 | 0.034 | 1.61 |
| 13903 | 2.02 | 0.012 | 0.59 | 15.13 | 749.01 | 1.31 | 64.85 | 1.38 | 68.32 | 0.048 | 2.38 | 0.030 | 1.48 |
| 13904 | 2.39 | 0.009 | 0.38 | 15.55 | 650.63 | 1.61 | 67.36 | 1.63 | 68.20 | 0.044 | 1.84 | 0.045 | 1.88 |
| 13905 | 2.14 | 0.018 | 0.84 | 17.49 | 817.29 | 1.42 | 66.36 | 1.52 | 71.03 | 0.053 | 2.48 | 0.049 | 2.29 |
| 13906 | 2.18 | 0.012 | 0.55 | 19.00 | 871.56 | 1.73 | 79.36 | 1.50 | 68.81 | 0.039 | 1.79 | 0.038 | 1.74 |
| 13907 | 2.24 | 0.007 | 0.31 | 18.99 | 847.77 | 1.38 | 61.61 | 1.35 | 60.27 | 0.061 | 2.72 | 0.045 | 2.01 |
| 13908 | 2.22 | 0.011 | 0.50 | 16.18 | 728.83 | 1.49 | 67.12 | 1.55 | 69.82 | 0.045 | 2.03 | 0.040 | 1.80 |
| 13909 | 2.16 | 0.013 | 0.60 | 16.55 | 766.20 | 1.46 | 67.59 | 1.50 | 69.44 | 0.041 | 1.90 | 0.038 | 1.76 |
| 13910 | 2.20 | 0.016 | 0.73 | 18.53 | 842.27 | 1.56 | 70.91 | 1.63 | 74.09 | 0.050 | 2.27 | 0.047 | 2.14 |
| 13911 | 2.26 | 0.015 | 0.66 | 16.78 | 742.48 | 1.58 | 69.91 | 1.59 | 70.35 | 0.042 | 1.86 | 0.035 | 1.55 |
| 13912 | 2.24 | 0.016 | 0.71 | 16.86 | 752.68 | 1.61 | 71.88 | 1.66 | 74.11 | 0.040 | 1.78 | 0.043 | 1.92 |
| 13913 | 2.24 | 0.022 | 0.98 | 15.08 | 673.21 | 1.35 | 60.27 | 1.52 | 67.86 | 0.047 | 2.10 | 0.040 | 1.78 |
| 13914 | 2.29 | 0.035 | 1.53 | 15.28 | 667.25 | 1.54 | 67.25 | 1.58 | 69.00 | 0.060 | 2.62 | 0.059 | 2.58 |
| 13915 | 2.10 | 0.012 | 0.57 | 14.92 | 710.48 | 1.40 | 66.67 | 1.51 | 71.90 | 0.040 | 1.90 | 0.045 | 2.14 |
| 13916 | 2.40 | 0.013 | 0.54 | 18.53 | 772.08 | 1.61 | 67.08 | 1.60 | 66.67 | 0.038 | 1.58 | 0.038 | 1.58 |
| 13917 | 2.31 | 0.022 | 0.95 | 17.29 | 748.48 | 1.55 | 67.10 | 1.44 | 62.34 | 0.046 | 1.99 | 0.038 | 1.64 |
| 13918 | 2.22 | 0.021 | 0.94 | 14.35 | 646.40 | 1.30 | 58.56 | 1.39 | 62.61 | 0.042 | 1.89 | 0.038 | 1.71 |
| 13919 | 2.30 | 0.025 | 1.09 | 17.02 | 740.00 | 1.32 | 57.39 | 1.34 | 58.26 | 0.045 | 1.96 | 0.040 | 1.74 |
| 13920 | 2.28 | 0.007 | 0.31 | 18.54 | 813.16 | 1.63 | 71.49 | 1.62 | 71.05 | 0.040 | 1.75 | 0.032 | 1.40 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Rat was not pregnant; values were not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 8): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % BRW | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % BRW | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP IV | | 10 MG/KG/DAY | | | | | | | | | |
| 13891 | 2.26 | 0.61 | 26.99 | 0.11 | 4.87 | 0.035 | 1.55 | 0.044 | 1.95 | 0.41 | 18.14 |
| 13892 | 2.20 | 0.80 | 36.36 | 0.30 | 13.64 | 0.057 | 2.59 | 0.054 | 2.45 | 0.99 | 45.00 |
| 13893 | 2.19 | 0.58 | 26.48 | 0.21 | 9.59 | 0.033 | 1.51 | 0.050 | 2.28 | 0.55 | 25.11 |
| 13894 | 2.28 | 0.77 | 33.77 | 0.33 | 14.47 | 0.047 | 2.06 | 0.086 | 3.77 | 1.03 | 45.18 |
| 13895 | 2.17 | 0.77 | 35.48 | 0.31 | 14.28 | 0.056 | 2.58 | 0.054 | 2.49 | 0.40 | 18.43 |
| 13896 | 2.16 | 0.69 | 31.94 | 0.20 | 9.26 | 0.048 | 2.22 | 0.048 | 2.22 | 0.51 | 23.61 |
| 13897 | 2.15 | 0.70 | 32.56 | 0.18 | 8.37 | 0.047 | 2.19 | 0.041 | 1.91 | 0.49 | 22.79 |
| 13898 | 2.27 | 0.92 | 40.53 | 0.16 | 7.05 | 0.040 | 1.76 | 0.057 | 2.51 | 0.56 | 24.67 |
| 13899 | 2.19 | 0.74 | 33.79 | 0.13 | 5.94 | 0.047 | 2.15 | 0.046 | 2.10 | 0.44 | 20.09 |
| 13900a | ---- | ---- | ----- | ---- | ---- | ----- | ---- | ----- | ---- | ---- | ----- |
| 13901 | 2.32 | 0.72 | 31.03 | 0.17 | 7.33 | 0.058 | 2.50 | 0.061 | 2.63 | 0.39 | 16.81 |
| 13902 | 2.11 | 0.55 | 26.07 | 0.19 | 9.00 | 0.037 | 1.75 | 0.058 | 2.75 | 0.49 | 23.22 |
| 13903 | 2.02 | 0.57 | 28.22 | 0.12 | 5.94 | 0.032 | 1.58 | 0.058 | 2.87 | 0.51 | 25.25 |
| 13904 | 2.39 | 0.76 | 31.80 | 0.31 | 12.97 | 0.048 | 2.01 | 0.065 | 2.72 | 0.62 | 25.94 |
| 13905 | 2.14 | 0.62 | 28.97 | 0.27 | 12.62 | 0.057 | 2.66 | 0.074 | 3.46 | 0.50 | 23.36 |
| 13906 | 2.18 | 0.64 | 29.36 | 0.15 | 6.88 | 0.044 | 2.02 | 0.048 | 2.20 | 0.57 | 26.15 |
| 13907 | 2.24 | 0.70 | 31.25 | 0.06 | 2.68 | 0.062 | 2.77 | 0.066 | 2.95 | 0.37 | 16.52 |
| 13908 | 2.22 | 0.76 | 34.23 | 0.54 | 24.32 | 0.066 | 2.97 | 0.065 | 2.93 | 1.09 | 49.10 |
| 13909 | 2.16 | 0.71 | 32.87 | 0.16 | 7.41 | 0.033 | 1.53 | 0.057 | 2.64 | 0.55 | 25.46 |
| 13910 | 2.20 | 0.65 | 29.54 | 0.16 | 7.27 | 0.063 | 2.86 | 0.052 | 2.36 | 0.45 | 20.45 |
| 13911 | 2.26 | 0.70 | 30.97 | 0.23 | 10.18 | 0.051 | 2.26 | 0.028 | 1.24 | 0.71 | 31.42 |
| 13912 | 2.24 | 0.67 | 29.91 | 0.16 | 7.14 | 0.040 | 1.78 | 0.053 | 2.37 | 0.81 | 36.16 |
| 13913 | 2.24 | 0.80 | 35.71 | 0.19 | 8.48 | 0.063 | 2.81 | 0.059 | 2.63 | 0.66 | 29.46 |
| 13914 | 2.29 | 0.69 | 30.13 | 0.17 | 7.42 | 0.051 | 2.23 | 0.053 | 2.31 | 0.44 | 19.21 |
| 13915 | 2.10 | 0.67 | 31.90 | 0.29 | 13.81 | 0.054 | 2.57 | 0.071 | 3.38 | 0.69 | 32.86 |
| 13916 | 2.40 | 0.69 | 28.75 | 0.14 | 5.83 | 0.033 | 1.38 | 0.050 | 2.08 | 0.61 | 25.42 |
| 13917 | 2.31 | 0.68 | 29.44 | 0.20 | 8.66 | 0.061 | 2.64 | 0.052 | 2.25 | 0.46 | 19.91 |
| 13918 | 2.22 | 0.65 | 29.28 | 0.18 | 8.11 | 0.046 | 2.07 | 0.049 | 2.21 | 0.57 | 25.68 |
| 13919 | 2.30 | 0.48 | 20.87 | 0.09 | 3.91 | 0.056 | 2.43 | 0.038 | 1.65 | 0.52 | 22.61 |
| 13920 | 2.28 | 0.66 | 28.95 | 0.08 | 3.51 | 0.045 | 1.97 | 0.038 | 1.67 | 0.47 | 20.61 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Rat was not pregnant; values were not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 9): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | | | |
| 13921 | 2.33 | 0.019 | 0.82 | 19.21 | 824.46 | 1.54 | 66.09 | 1.59 | 68.24 | 0.052 | 2.23 | 0.042 | 1.80 |
| 13922 | 2.16 | 0.010 | 0.46 | 16.31 | 755.09 | 1.37 | 63.42 | 1.37 | 63.42 | 0.038 | 1.76 | 0.041 | 1.90 |
| 13923 | 2.15 | 0.012 | 0.56 | 20.04 | 932.09 | 1.41 | 65.58 | 1.38 | 64.19 | 0.042 | 1.95 | 0.041 | 1.91 |
| 13924 | 2.11 | 0.020 | 0.95 | 20.95 | 992.89 | 1.47 | 69.67 | 1.61 | 76.30 | 0.053 | 2.51 | 0.045 | 2.13 |
| 13925 | 2.12 | 0.009 | 0.42 | 15.19 | 716.51 | 1.31 | 61.79 | 1.34 | 63.21 | 0.040 | 1.89 | 0.033 | 1.56 |
| 13926 | 2.19 | 0.027 | 1.23 | 20.53 | 937.44 | 1.63 | 74.43 | 1.58 | 72.15 | 0.071 | 3.24 | 0.049 | 2.24 |
| 13927 | 2.07 | 0.011 | 0.53 | 18.60 | 898.55 | 1.47 | 71.01 | 1.60 | 77.29 | 0.069 | 3.33 | 0.052 | 2.51 |
| 13928 | 2.30 | 0.028 | 1.22 | 18.93 | 823.04 | 1.58 | 68.70 | 1.60 | 69.56 | 0.050 | 2.17 | 0.036 | 1.56 |
| 13929a | 1.94 | 0.015 | ---- | 12.06 | ------ | 1.20 | ----- | 1.27 | ----- | 0.039 | ---- | 0.033 | ---- |
| 13930 | 2.24 | 0.019 | 0.85 | 20.69 | 923.66 | 1.47 | 65.62 | 1.62 | 72.32 | 0.039 | 1.74 | 0.037 | 1.65 |
| 13931 | 2.09 | 0.022 | 1.05 | 19.14 | 915.79 | 1.29 | 61.72 | 1.33 | 63.64 | 0.042 | 2.01 | 0.039 | 1.87 |
| 13932 | 2.18 | 0.016 | 0.73 | 20.55 | 942.66 | 1.53 | 70.18 | 1.53 | 70.18 | 0.051 | 2.34 | 0.046 | 2.11 |
| 13933 | 1.99 | 0.018 | 0.90 | 17.15 | 861.81 | 1.28 | 64.32 | 1.43 | 71.86 | 0.045 | 2.26 | 0.060 | 3.02 |
| 13934 | 2.16 | 0.012 | 0.56 | 15.00 | 694.44 | 1.42 | 65.74 | 1.50 | 69.44 | 0.039 | 1.80 | 0.029 | 1.34 |
| 13935 | 2.08 | 0.010 | 0.48 | 17.57 | 844.71 | 1.39 | 66.83 | 1.46 | 70.19 | 0.053 | 2.55 | 0.056 | 2.69 |
| 13936 | 2.29 | 0.017 | 0.74 | 18.04 | 787.77 | 1.37 | 59.82 | 1.38 | 60.26 | 0.053 | 2.31 | 0.044 | 1.92 |
| 13937 | 2.03 | 0.005 | 0.25 | 16.74 | 824.63 | 1.51 | 74.38 | 1.40 | 68.96 | 0.029 | 1.43 | 0.031 | 1.53 |
| 13938 | 2.25 | 0.016 | 0.71 | 19.00 | 844.44 | 1.58 | 70.22 | 1.63 | 72.44 | 0.056 | 2.49 | 0.049 | 2.18 |
| 13939 | 2.29 | 0.016 | 0.70 | 16.45 | 718.34 | 1.49 | 65.06 | 1.51 | 65.94 | 0.039 | 1.70 | 0.037 | 1.62 |
| 13940 | 2.24 | 0.030 | 1.34 | 18.92 | 844.64 | 1.34 | 59.82 | 1.46 | 65.18 | 0.048 | 2.14 | 0.039 | 1.74 |
| 13941 | 2.39 | 0.017 | 0.71 | 19.38 | 810.88 | 1.55 | 64.85 | 1.65 | 69.04 | 0.045 | 1.88 | 0.059 | 2.47 |
| 13942 | 2.19 | 0.006 | 0.27 | 17.21 | 785.84 | 1.46 | 66.67 | 1.37 | 62.56 | 0.030 | 1.37 | 0.035 | 1.60 |
| 13943 | 2.30 | 0.011 | 0.48 | 17.70 | 769.56 | 1.52 | 66.09 | 1.45 | 63.04 | 0.034 | 1.48 | 0.042 | 1.83 |
| 13944 | 2.01 | 0.092b | 4.58b | 16.38 | 814.92 | 1.43 | 71.14 | 1.53 | 76.12 | 0.056 | 2.79 | 0.052 | 2.59 |
| 13945 | 2.29 | 0.021 | 0.92 | 17.42 | 760.70 | 1.45 | 63.32 | 1.57 | 68.56 | 0.051 | 2.23 | 0.039 | 1.70 |
| 13946 | 2.04 | 0.009 | 0.44 | 17.13 | 839.70 | 1.22 | 59.80 | 1.33 | 65.20 | 0.032 | 1.57 | 0.024 | 1.18 |
| 13947c | 2.05 | 0.015 | ---- | 11.28 | ------ | 1.18 | ----- | 1.11 | ----- | 0.048 | ---- | 0.040 | ---- |
| 13948 | 2.20 | 0.017 | 0.77 | 15.10 | 686.36 | 1.35 | 61.36 | 1.36 | 61.82 | 0.044 | 2.00 | 0.810b | 36.82b |
| 13949 | 2.09 | 0.013 | 0.62 | 18.90 | 904.31 | 1.53 | 73.20 | 1.55 | 74.16 | 0.046 | 2.20 | 0.023 | 1.10 |
| 13950 | 2.02 | 0.016 | 0.79 | 18.17 | 899.50 | 1.39 | 68.81 | 1.52 | 75.25 | 0.037 | 1.83 | 0.041 | 2.03 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat was not pregnant; values excluded from group averages and statistical analyses.
b. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.
c. Rat 13947 was sacrificed due to no surviving pups on day 1 of lactation; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C34 (PAGE 10): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P GENERATION FEMALE RATS

| RAT NUMBER | BRAIN WEIGHT | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % BRW | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % BRW | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE GROUP V | | 30 MG/KG/DAY | | | | | | | | | |
| 13921 | 2.33 | 0.71 | 30.47 | 0.15 | 6.44 | 0.069 | 2.96 | 0.033 | 1.42 | 0.54 | 23.18 |
| 13922 | 2.16 | 0.72 | 33.33 | 0.08 | 3.70 | 0.073 | 3.38 | 0.060 | 2.78 | 0.52 | 24.07 |
| 13923 | 2.15 | 0.74 | 34.42 | 0.10 | 4.65 | 0.030 | 1.40 | 0.020 | 0.93 | 0.45 | 20.93 |
| 13924 | 2.11 | 0.52 | 24.64 | 0.16 | 7.58 | 0.106 | 5.02 | 0.055 | 2.61 | 0.40 | 18.96 |
| 13925 | 2.12 | 0.56 | 26.42 | 0.10 | 4.72 | 0.040 | 1.89 | 0.043 | 2.03 | 0.40 | 18.87 |
| 13926 | 2.19 | 0.90 | 41.10 | 0.19 | 8.68 | 0.061 | 2.78 | 0.070 | 3.20 | 0.47 | 21.46 |
| 13927 | 2.07 | 0.79 | 38.16 | 0.20 | 9.66 | 0.062 | 3.00 | 0.058 | 2.80 | 0.27 | 13.04 |
| 13928 | 2.30 | 0.84 | 36.52 | 0.20 | 8.70 | 0.049 | 2.13 | 0.060 | 2.61 | 0.60 | 26.09 |
| 13929a | 1.94 | 0.46 | ----- | 0.24 | ---- | 0.036 | ---- | 0.028 | ---- | 0.86 | ----- |
| 13930 | 2.24 | 0.80 | 35.71 | 0.13 | 5.80 | 0.034 | 1.52 | 0.047 | 2.10 | 0.46 | 20.54 |
| 13931 | 2.09 | 0.82 | 39.23 | 0.20 | 9.57 | 0.056 | 2.68 | 0.050 | 2.39 | 0.58 | 27.75 |
| 13932 | 2.18 | 0.62 | 28.44 | 0.15 | 6.88 | 0.041 | 1.88 | 0.049 | 2.25 | 0.56 | 25.69 |
| 13933 | 1.99 | 0.66 | 33.16 | 0.28 | 14.07 | 0.052 | 2.61 | 0.036 | 1.81 | 0.51 | 25.63 |
| 13934 | 2.16 | 0.68 | 31.48 | 0.22 | 10.18 | 0.052 | 2.41 | 0.043 | 1.99 | 0.51 | 23.61 |
| 13935 | 2.08 | 0.61 | 29.33 | 0.06 | 2.88 | 0.056 | 2.69 | 0.046 | 2.21 | 0.76 | 36.54 |
| 13936 | 2.29 | 0.74 | 32.31 | 0.05 | 2.18 | 0.055 | 2.40 | 0.040 | 1.75 | 0.56 | 24.45 |
| 13937 | 2.03 | 0.50 | 24.63 | 0.17 | 8.37 | 0.059 | 2.91 | 0.030 | 1.48 | 0.49 | 24.14 |
| 13938 | 2.25 | 0.83 | 36.89 | 0.19 | 8.44 | 0.050 | 2.22 | 0.039 | 1.73 | 0.43 | 19.11 |
| 13939 | 2.29 | 0.75 | 32.75 | 0.21 | 9.17 | 0.055 | 2.40 | 0.074 | 3.23 | 0.43 | 18.78 |
| 13940 | 2.24 | 0.66 | 29.46 | 0.15 | 6.70 | 0.033 | 1.47 | 0.039 | 1.74 | 0.60 | 26.78 |
| 13941 | 2.39 | 0.71 | 29.71 | 0.21 | 8.79 | 0.056 | 2.34 | 0.086 | 3.60 | 0.45 | 18.83 |
| 13942 | 2.19 | 0.70 | 31.96 | 0.21 | 9.59 | 0.027 | 1.23 | 0.060 | 2.74 | 0.54 | 24.66 |
| 13943 | 2.30 | 0.75 | 32.61 | 0.15 | 6.52 | 0.059 | 2.56 | 0.052 | 2.26 | 0.51 | 22.17 |
| 13944 | 2.01 | 0.82 | 40.80 | 0.21 | 10.45 | 0.066 | 3.28 | 0.054 | 2.69 | 0.57 | 28.36 |
| 13945 | 2.29 | 0.69 | 30.13 | 0.28 | 12.23 | 0.047 | 2.05 | 0.050 | 2.18 | 0.28 | 12.23 |
| 13946 | 2.04 | 0.89 | 43.63 | 0.17 | 8.33 | 0.058 | 2.84 | 0.044 | 2.16 | 0.45 | 22.06 |
| 13947b | 2.05 | 0.66 | ----- | 0.26 | ---- | 0.085 | ---- | 0.058 | ---- | 2.00 | ----- |
| 13948 | 2.20 | 0.80 | 36.36 | 0.22 | 10.00 | 0.035 | 1.59 | 0.047 | 2.14 | 0.65 | 29.54 |
| 13949 | 2.09 | 0.62 | 29.66 | 0.17 | 8.13 | 0.050 | 2.39 | 0.038 | 1.82 | 0.39 | 18.66 |
| 13950 | 2.02 | 0.72 | 35.64 | 0.18 | 8.91 | 0.060 | 2.97 | 0.046 | 2.28 | 0.65 | 32.18 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat was not pregnant; values excluded from group averages and statistical analyses.

b. Rat 13947 was sacrificed due to no surviving pups on day 1 of lactation; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C35 (PAGE 1): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P GENERATION FEMALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13801 | 22 | 9 | 0 | 9 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 11 |
| 13802 | 22 | 14 | 0 | 14 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 14 |
| 13803 | 23 | 16 | 0 | 16 | 6 | 10 | 6 | 10 | 6 | 9 | 6 | 9 | 6 | 9 | 16 |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | |
| 13805 | 23 | 13 | 0 | 13 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 13 |
| 13806 | 22 | 17 | 0 | 17 | 6 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 17 |
| 13807 | 22 | 17 | 0 | 17 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 17 |
| 13808 | 22 | 12 | 1 | 13 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 16 |
| 13809 | 23 | 13 | 0 | 13 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 14 |
| 13810 | 23 | 14(1) | 1 | 15 | 5 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 18 |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13812 | 23 | 14 | 0 | 14 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 15 |
| 13813 | 23 | 12 | 0 | 13[1] | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 16 |
| 13814 | 22 | 17 | 0 | 17 | 11 | 6 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 18 |
| 13815 | 23 | 15 | 0 | 15 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 16 |
| 13816 | 23 | 15 | 0 | 16[1] | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 17 |
| 13817 | 23 | 15 | 0 | 15 | 8 | 7 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 16 |
| 13818 | 23 | 16 | 0 | 16 | 8 | 8 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 17 |
| 13819 | 22 | 13(1) | 0 | 13 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 14 |
| 13820 | 23 | 14 | 0 | 14 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 16 |
| 13821 | 22 | 17 | 0 | 17 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 17 |
| 13822a | 23 | 12 | 0 | 12 | 3 | 9 | 3 | 9 | 3 | 9 | - | - | - | - | 12 |
| 13823 | 23 | 9 | 0 | 9 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 11 |
| 13824 | 23 | 16 | 0 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 16 |
| 13825 | 23 | 15 | 0 | 15 | 2 | 13 | 2 | 13 | 2 | 13 | 2 | 13 | 2 | 13 | 15 |
| 13826 | 23 | 16 | 0 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 16 |
| 13827 | 23 | 16 | 0 | 16 | 10 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 16 |
| 13828 | 23 | 14 | 0 | 14 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 16 |
| 13829 | 22 | 13 | 0 | 13 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 13 |
| 13830 | 22 | 13 | 1 | 14 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 15 |

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.
[ ] = NUMBER OF PUPS IN WHICH CANNIBALIZATION AND/OR AUTOLYSIS PRECLUDED THE DETERMINATION OF VIABILITY.
a. Dam 13822 was sacrificed on day 8 of lactation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C35 (PAGE 2): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P GENERATION FEMALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13831 | 22 | 17 | 0 | 17 | 13 | 4 | 13 | 4 | 13 | 4 | 13 | 4 | 13 | 4 | 17 |
| 13832 | 23 | 14 | 0 | 14 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 16 |
| 13833 | 22 | 15 | 0 | 15 | 6 | 9 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 17 |
| 13834 | 22 | 13 | 0 | 13 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 15 |
| 13835 | 22 | 18 | 0 | 18 | 6 | 12 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 18 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | |
| 13837 | 22 | 11 | 1 | 12 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 13 |
| 13838 | 23 | 18 | 0 | 18 | 7 | 11 | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | 20 |
| 13839 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 13 |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13841 | 22 | 11(1) | 0 | 12[1] | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 14 |
| 13842 | 22 | 13 | 0 | 13 | 6 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 14 |
| 13843 | 22 | 10 | 0 | 10 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 10 |
| 13844 | 23 | 17 | 0 | 17 | 6 | 11 | 6 | 11 | 6 | 10 | 6 | 10 | 6 | 10 | 17 |
| 13845 | 23 | 12 | 0 | 12 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 13 |
| 13846 | 23 | 14 | 0 | 14 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 14 |
| 13847 | 23 | 8 | 7 | 15 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 17 |
| 13848 | 23 | 16 | 0 | 16 | 12 | 4 | 12 | 4 | 12 | 4 | 12 | 4 | 12 | 4 | 17 |
| 13849 | 23 | 16 | 0 | 16 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 17 |
| 13850 | 22 | 12 | 1 | 13 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 15 |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13852a | 23 | 12 | 0 | 12 | 8 | 4 | 8 | 4 | 8 | 4 | - | - | - | - | 15 |
| 13853 | 22 | 17 | 0 | 17 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 17 |
| 13854 | 23 | 17 | 0 | 17 | 11 | 6 | 11 | 6 | 11 | 6 | 11 | 6 | 11 | 6 | 17 |
| 13855 | 22 | 16(1) | 0 | 16 | 9 | 6 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 17 |
| 13856 | 22 | 16 | 0 | 16 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 17 |
| 13857 | 23 | 14 | 1 | 15 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 15 |
| 13858 | 22 | 17 | 0 | 17 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 17 |
| 13859 | 23 | 15 | 0 | 15 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 8 | 6 | 8 | 15 |
| 13860 | 22 | 13 | 0 | 13 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 14 |

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.
[ ] = NUMBER OF PUPS IN WHICH CANNIBALIZATION AND/OR AUTOLYSIS PRECLUDED THE DETERMINATION OF VIABILITY.
a. Dam 13852 was sacrificed on day 11 of lactation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C35 (PAGE 3): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P GENERATION FEMALE RATS

DOSAGE GROUP III 3 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13861 | 23 | 10 | 0 | 10 | 8 | 2 | 8 | 2 | 8 | 2 | 8 | 2 | 8 | 2 | 12 |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | |
| 13863 | 23 | 16 | 0 | 16 | 5 | 11 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 17 |
| 13864 | 23 | 6 | 1 | 7 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 13 |
| 13865 | 22 | 17(1) | 0 | 17 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 17 |
| 13866 | 23 | 18 | 0 | 18 | 8 | 10 | 8 | 10 | 8 | 9 | 7 | 9 | 7 | 9 | 18 |
| 13867 | 23 | 15 | 1 | 16 | 9 | 6 | 9 | 6 | 7 | 5 | 7 | 5 | 7 | 5 | 16 |
| 13868 | 22 | 16 | 0 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 16 |
| 13869 | 23 | 16 | 0 | 16 | 7 | 9 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 16 |
| 13870 | 23 | 8 | 0 | 8 | 2 | 6 | 2 | 6 | 2 | 6 | 2 | 6 | 2 | 6 | 11 |
| 13871 | 22 | 15 | 0 | 15 | 5 | 10 | 4 | 9 | 4 | 8 | 4 | 8 | 4 | 7 | 16 |
| 13872 | 23 | 17 | 0 | 17 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 17 |
| 13873 | 23 | 17 | 0 | 17 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 18 |
| 13874 | 23 | 17 | 0 | 17 | 5 | 12 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 18 |
| 13875 | 23 | 16 | 0 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 17 |
| 13876 | 23 | 14(1) | 1 | 15 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 18 |
| 13877 | 23 | 13 | 1 | 14 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 17 |
| 13878 | 23 | 9 | 0 | 9 | 2 | 7 | 2 | 7 | 2 | 7 | 2 | 7 | 2 | 7 | 11 |
| 13879 | 23 | 11 | 0 | 11 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 14 |
| 13880 | 23 | 13 | 0 | 13 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 16 |
| 13881 | 22 | 11 | 0 | 11 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 12 |
| 13882 | 22 | 16 | 0 | 16 | 10 | 6 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 16 |
| 13883 | 23 | 15(1) | 0 | 15 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 15 |
| 13884 | 23 | 11 | 0 | 11 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 11 |
| 13885 | 24 | 3 | 0 | 3 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 16 |
| 13886 | 22 | 12 | 0 | 12 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 13 |
| 13887 | 23 | 11 | 0 | 11 | 8 | 3 | 8 | 3 | 8 | 3 | 8 | 3 | 8 | 3 | 13 |
| 13888 | 23 | 14 | 1 | 15 | 2 | 12 | 2 | 12 | 2 | 12 | 2 | 12 | 2 | 12 | 16 |
| 13889 | 22 | 16 | 0 | 16 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 16 |
| 13890 | 23 | 15 | 0 | 15 | 1 | 14 | 1 | 14 | 1 | 14 | 1 | 14 | 1 | 14 | 16 |

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C35 (PAGE 4): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P GENERATION FEMALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13891 | 23 | 10 | 1 | 11 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 13 |
| 13892 | 22 | 15 | 1 | 16 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 17 |
| 13893 | 22 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 15 |
| 13894 | 23 | 14 | 0 | 14 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 15 |
| 13895 | 22 | 15 | 0 | 15 | 11 | 4 | 11 | 4 | 11 | 4 | 11 | 4 | 11 | 4 | 17 |
| 13896 | 23 | 12 | 0 | 12 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 12 |
| 13897 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 13 |
| 13898 | 23 | 17 | 0 | 17 | 7 | 10 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 18 |
| 13899 | 22 | 11 | 0 | 11 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 16 |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | |
| 13901 | 23 | 16 | 0 | 16 | 7 | 9 | 7 | 9 | 7 | 8 | 7 | 8 | 7 | 8 | 16 |
| 13902 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 15 |
| 13903 | 23 | 14 | 0 | 14 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 17 |
| 13904 | 23 | 14 | 0 | 14 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 16 |
| 13905 | 23 | 16 | 0 | 16 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 16 |
| 13906 | a | 14 | 2 | 16 | 6 | 8 | 5 | 8 | 5 | 7 | 5 | 7 | 5 | 7 | 16 |
| 13907 | 21 | 16 | 0 | 16 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 18 |
| 13908 | 23 | 4 | 0 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 13 |
| 13909 | 23 | 14 | 0 | 14 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 16 |
| 13910 | 22 | 15 | 0 | 15 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 18 |
| 13911 | 23 | 12 | 0 | 12 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 13 |
| 13912 | 22 | 14 | 0 | 14 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 15 |
| 13913 | 22 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 15 |
| 13914 | 23 | 18 | 0 | 18 | 8 | 10 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 19 |
| 13915 | 23 | 17 | 0 | 17 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 17 |
| 13916 | 23 | 16 | 0 | 16 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 17 |
| 13917 | a | 7 | 0 | 7 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 11 |
| 13918 | 23 | 14 | 0 | 14 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 15 |
| 13919 | 22 | 14 | 0 | 14 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 17 |
| 13920 | 23 | 16 | 0 | 16 | 7 | 9 | 7 | 8 | 7 | 8 | 6 | 6 | 6 | 6 | 17 |

M = MALE F = FEMALE

a. Dam did not have a confirmed mating date, which precludes the calculation of the duration of gestation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C35 (PAGE 5): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P GENERATION FEMALE RATS

DOSAGE GROUP V 30 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13921 | 23 | 15 | 0 | 15 | 9 | 6 | 9 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 15 |
| 13922 | 22 | 9(2) | 0 | 9 | 5 | 2 | 4 | - | 4 | - | 4 | - | 4 | - | 13 |
| 13923 | 22 | 14 | 0 | 14 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 16 |
| 13924 | 23 | 17 | 0 | 17 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 17 |
| 13925 | 23 | 13 | 0 | 13 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 13 |
| 13926 | 22 | 14 | 1 | 15 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 19 |
| 13927 | 23 | 16 | 0 | 16 | 7 | 9 | 7 | 9 | 7 | 8 | 7 | 8 | 7 | 8 | 17 |
| 13928 | 23 | 16 | 0 | 16 | 6 | 10 | 5 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 18 |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13930 | 22 | 18 | 0 | 18 | 9 | 9 | 9 | 8 | 8 | 7 | 8 | 7 | 8 | 7 | 19 |
| 13931 | 22 | 15 | 0 | 15 | 8 | 7 | 8 | 6 | 6 | 4 | 6 | 4 | 6 | 4 | 15 |
| 13932 | 23 | 14 | 0 | 14 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 14 |
| 13933 | 23 | 13 | 0 | 13 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 13 |
| 13934 | a | 15 | 0 | 15 | 3 | 12 | 2 | 12 | 2 | 11 | 1 | 11 | 1 | 11 | 18 |
| 13935 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 15 |
| 13936 | 23 | 14 | 0 | 14 | 11 | 3 | 11 | 3 | 11 | 3 | 11 | 3 | 11 | 3 | 15 |
| 13937 | 23 | 15 | 0 | 15 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 15 |
| 13938 | 22 | 16 | 0 | 16 | 8 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 17 |
| 13939 | 23 | 14 | 1 | 15 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 16 |
| 13940 | 23 | 15 | 0 | 15 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 15 |
| 13941 | 23 | 13 | 1 | 14 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 14 |
| 13942 | 23 | 16 | 0 | 16 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 17 |
| 13943 | 23 | 7 | 0 | 7 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 13 |
| 13944 | 22 | 12 | 0 | 12 | 4 | 8 | 3 | 8 | 3 | 8 | 3 | 7 | 3 | 7 | 13 |
| 13945 | 23 | 14 | 0 | 14 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 16 |
| 13946 | 23 | 11 | 0 | 11 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 11 |
| 13947b | 24 | 1(1) | 0 | 1 | - | - | - | - | - | - | - | - | - | - | 15 |
| 13948 | 22 | 12 | 0 | 12 | 7 | 5 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 17 |
| 13949 | 22 | 13 | 0 | 13 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 14 |
| 13950 | 22 | 11 | 3 | 14 | 6 | 5 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 15 |

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.
a. Dam did not have a confirmed mating date, which precludes the calculation of the duration of gestation.
b. Dam 13947 was sacrificed due to no surviving pups on day 1 of lactation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C36 (PAGE 1): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP I 0 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 13801 | 5.5 | 5.3 | 5.4 | 8.8 | 8.5 | 8.6 | 13.2 | 13.2 | 13.2 | 29.2 | 28.7 | 28.9 | 45.6 | 43.6 | 44.4 |
| 13802 | 6.9 | 6.2 | 6.6 | 12.1 | 11.2 | 11.7 | 17.5 | 16.8 | 17.2 | 30.8 | 30.1 | 30.5 | 43.9 | 41.9 | 43.0 |
| 13803 | 7.4 | 7.0 | 7.1 | 11.3 | 10.8 | 11.0 | 15.8 | 15.4 | 15.6 | 23.2 | 23.0 | 23.1 | 42.0 | 40.8 | 41.3 |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | |
| 13805 | 7.2 | 6.8 | 7.0 | 10.6 | 10.0 | 10.3 | 15.4 | 14.0 | 14.6 | 28.8 | 26.4 | 27.5 | 45.7 | 41.4 | 43.4 |
| 13806 | 5.8 | 5.7 | 5.7 | 8.3 | 8.2 | 8.2 | 11.9 | 12.2 | 12.1 | 24.4 | 24.6 | 24.5 | 33.9 | 34.4 | 34.2 |
| 13807 | 6.3 | 6.0 | 6.2 | 9.1 | 8.8 | 9.0 | 12.2 | 12.0 | 12.1 | 23.1 | 23.0 | 23.0 | 25.6 | 24.8 | 25.2 |
| 13808 | 6.5 | 5.8 | 6.2 | 10.2 | 9.9 | 10.0 | 14.5 | 14.3 | 14.4 | 29.7 | 29.3 | 29.5 | 40.9 | 40.2 | 40.5 |
| 13809 | 6.7 | 6.2 | 6.5 | 9.9 | 9.2 | 9.7 | 13.9 | 13.0 | 13.6 | 28.4 | 26.5 | 27.8 | 36.0 | 34.2 | 35.5 |
| 13810 | 6.4 | 6.0 | 6.1 | 9.8 | 9.4 | 9.6 | 14.7 | 14.0 | 14.2 | 31.2 | 29.8 | 30.3 | 45.6 | 42.7 | 43.6 |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13812 | 6.5 | 6.4 | 6.5 | 10.5 | 10.4 | 10.4 | 15.3 | 15.0 | 15.2 | 27.2 | 26.4 | 26.9 | 43.3 | 41.2 | 42.6 |
| 13813 | 7.4 | 7.0 | 7.2 | 11.6 | 11.6 | 11.6 | 17.2 | 17.0 | 17.1 | 32.2 | 31.1 | 31.6 | 43.8 | 43.3 | 43.5 |
| 13814 | 5.8 | 5.2 | 5.6 | 8.0 | 7.4 | 7.8 | 11.1 | 10.5 | 10.9 | 22.8 | 21.5 | 22.4 | 34.0 | 32.6 | 33.5 |
| 13815 | 5.8 | 5.5 | 5.7 | 8.2 | 7.9 | 8.1 | 11.2 | 10.5 | 10.9 | 21.0 | 19.8 | 20.6 | 32.8 | 31.0 | 32.2 |
| 13816 | 6.5 | 6.1 | 6.3 | 8.9 | 8.4 | 8.6 | 11.5 | 10.9 | 11.1 | 20.0 | 17.4 | 18.3 | 33.1 | 29.3 | 30.6 |
| 13817 | 6.8 | 6.4 | 6.6 | 9.3 | 8.6 | 9.0 | 12.6 | 12.0 | 12.4 | 23.9 | 22.7 | 23.4 | 38.2 | 37.0 | 37.7 |
| 13818 | 6.2 | 5.5 | 5.8 | 7.4 | 7.0 | 7.2 | 11.0 | 9.8 | 10.5 | 18.4 | 16.9 | 17.8 | 28.6 | 26.6 | 27.8 |
| 13819 | 6.3 | 5.5 | 5.8 | 9.7 | 8.4 | 8.8 | 13.6 | 12.3 | 12.8 | 21.0 | 19.6 | 20.1 | 30.5 | 28.9 | 29.4 |
| 13820 | 6.7 | 6.2 | 6.4 | 9.0 | 8.7 | 8.8 | 13.5 | 12.1 | 12.6 | 26.9 | 24.7 | 25.5 | 26.8 | 29.0 | 28.2 |
| 13821 | 5.7 | 5.3 | 5.5 | 9.5 | 8.9 | 9.2 | 14.0 | 13.0 | 13.5 | 26.3 | 25.0 | 25.6 | 40.5 | 38.5 | 39.5 |
| 13822 | 7.2 | 6.7 | 6.8 | 12.1 | 11.3 | 11.5 | SACRIFICED ON DAY 8 OF LACTATION | | | | | | | | |
| 13823 | 7.0 | 6.9 | 6.9 | 12.8 | 12.8 | 12.8 | 18.8 | 18.7 | 18.7 | 33.2 | 32.9 | 33.0 | 54.0 | 53.3 | 53.6 |
| 13824 | 6.6 | 6.1 | 6.4 | 9.7 | 8.9 | 9.3 | 13.2 | 12.8 | 13.0 | 25.8 | 24.7 | 25.2 | 40.4 | 39.1 | 39.7 |
| 13825 | 6.4 | 6.3 | 6.3 | 8.1 | 8.2 | 8.1 | 12.0 | 11.9 | 11.9 | 24.8 | 23.7 | 23.9 | 35.5 | 34.2 | 34.3 |
| 13826 | 6.8 | 6.2 | 6.5 | 9.9 | 9.0 | 9.5 | 12.9 | 12.2 | 12.6 | 20.0 | 18.2 | 19.1 | 32.0 | 28.7 | 30.4 |
| 13827 | 6.4 | 5.6 | 6.1 | 9.6 | 9.1 | 9.4 | 13.9 | 13.3 | 13.6 | 26.2 | 25.1 | 25.7 | 41.7 | 39.9 | 41.0 |
| 13828 | 6.6 | 6.3 | 6.4 | 8.7 | 8.4 | 8.5 | 12.5 | 12.0 | 12.2 | 25.4 | 24.5 | 24.8 | 41.3 | 39.3 | 40.0 |
| 13829 | 6.7 | 6.3 | 6.5 | 10.0 | 9.5 | 9.8 | 11.9 | 11.1 | 11.6 | 23.8 | 21.4 | 22.9 | 41.2 | 37.5 | 39.8 |
| 13830 | 5.5 | 5.3 | 5.4 | 8.0 | 7.8 | 7.9 | 11.4 | 11.6 | 11.5 | 22.7 | 22.7 | 22.7 | 35.5 | 35.1 | 35.3 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C36 (PAGE 2): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP II 1 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 13831 | 6.3 | 5.9 | 6.2 | 9.4 | 8.6 | 9.2 | 13.1 | 12.3 | 12.9 | 25.1 | 24.2 | 24.9 | 34.6 | 32.6 | 34.1 |
| 13832 | 6.8 | 6.5 | 6.7 | 9.9 | 9.8 | 9.9 | 14.2 | 13.7 | 14.0 | 25.4 | 23.9 | 25.0 | 41.8 | 39.1 | 41.0 |
| 13833 | 5.7 | 5.6 | 5.6 | 9.0 | 8.7 | 8.8 | 12.8 | 12.2 | 12.4 | 26.2 | 25.1 | 25.6 | 43.0 | 40.0 | 41.3 |
| 13834 | 6.3 | 5.9 | 6.0 | 10.0 | 9.5 | 9.7 | 14.0 | 13.7 | 13.8 | 26.6 | 25.6 | 25.9 | 37.3 | 35.9 | 36.3 |
| 13835 | 6.0 | 5.4 | 5.6 | 8.7 | 8.2 | 8.4 | 12.9 | 12.2 | 12.5 | 25.4 | 23.8 | 24.4 | 35.9 | 32.8 | 34.0 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | |
| 13837 | 6.2 | 5.7 | 5.9 | 8.5 | 7.8 | 8.1 | 12.6 | 11.7 | 12.1 | 26.4 | 25.4 | 25.8 | 39.6 | 37.6 | 38.5 |
| 13838 | 6.5 | 5.8 | 6.1 | 9.1 | 8.2 | 8.6 | 13.3 | 11.6 | 12.3 | 25.3 | 23.3 | 24.2 | 36.7 | 34.0 | 35.1 |
| 13839 | 6.6 | 6.4 | 6.5 | 9.4 | 10.1 | 9.7 | 15.5 | 14.3 | 14.9 | 24.7 | 22.9 | 23.8 | 36.1 | 33.1 | 34.6 |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13841 | 5.9 | 5.6 | 5.8 | 9.4 | 9.1 | 9.2 | 12.7 | 12.5 | 12.6 | 23.7 | 22.5 | 23.1 | 41.6 | 39.2 | 40.4 |
| 13842 | 6.1 | 5.9 | 6.0 | 8.5 | 8.1 | 8.3 | 12.9 | 12.1 | 12.4 | 27.0 | 24.6 | 25.6 | 40.5 | 36.6 | 38.2 |
| 13843 | 6.7 | 5.9 | 6.3 | 8.0 | 7.2 | 7.6 | 11.2 | 10.1 | 10.6 | 23.7 | 22.7 | 23.2 | 34.5 | 32.4 | 33.4 |
| 13844 | 6.0 | 5.7 | 5.8 | 7.8 | 7.2 | 7.4 | 11.8 | 10.5 | 11.0 | 21.7 | 19.8 | 20.5 | 35.4 | 29.1 | 31.4 |
| 13845 | 6.7 | 6.6 | 6.7 | 9.7 | 9.8 | 9.7 | 13.8 | 14.1 | 13.9 | 27.8 | 28.8 | 28.2 | 43.1 | 43.3 | 43.2 |
| 13846 | 6.1 | 5.6 | 5.8 | 9.2 | 8.6 | 9.0 | 12.6 | 12.2 | 12.4 | 23.4 | 22.2 | 22.8 | 35.3 | 32.7 | 34.1 |
| 13847 | 5.7 | 5.9 | 5.8 | 10.5 | 10.1 | 10.3 | 15.8 | 15.0 | 15.4 | 31.9 | 31.3 | 31.6 | 54.6 | 52.3 | 53.4 |
| 13848 | 6.7 | 6.2 | 6.6 | 9.4 | 9.0 | 9.3 | 13.7 | 13.3 | 13.6 | 26.0 | 25.4 | 25.8 | 42.6 | 39.7 | 41.8 |
| 13849 | 6.2 | 5.9 | 6.1 | 8.2 | 7.7 | 8.1 | 11.4 | 11.0 | 11.3 | 21.2 | 20.5 | 21.0 | 26.2 | 26.0 | 26.2 |
| 13850 | 5.9 | 5.5 | 5.7 | 8.5 | 8.2 | 8.3 | 12.0 | 11.1 | 11.5 | 25.2 | 24.1 | 24.6 | 38.0 | 34.9 | 36.4 |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13852 | 6.3 | 6.2 | 6.3 | 9.3 | 9.2 | 9.3 | 13.3 | 13.6 | 13.4 | SACRIFICED ON DAY 11 OF LACTATION | | | | | |
| 13853 | 5.2 | 4.6 | 5.0 | 7.8 | 7.6 | 7.7 | 11.1 | 10.8 | 10.9 | 21.9 | 20.2 | 21.2 | 32.7 | 29.9 | 31.5 |
| 13854 | 6.1 | 6.0 | 6.1 | 9.4 | 9.0 | 9.2 | 13.5 | 12.6 | 13.2 | 20.0 | 18.2 | 19.3 | 29.5 | 27.2 | 28.7 |
| 13855 | 5.7 | 5.5 | 5.6 | 9.6 | 9.4 | 9.6 | 14.3 | 14.4 | 14.4 | 28.4 | 28.0 | 28.2 | 39.2 | 38.8 | 39.0 |
| 13856 | 5.7 | 5.1 | 5.4 | 9.2 | 8.1 | 8.7 | 13.2 | 11.8 | 12.6 | 21.0 | 18.8 | 20.0 | 33.5 | 28.7 | 31.4 |
| 13857 | 6.8 | 6.3 | 6.4 | 10.2 | 9.8 | 9.9 | 14.9 | 14.4 | 14.6 | 27.4 | 26.6 | 26.9 | 43.0 | 40.6 | 41.3 |
| 13858 | 5.5 | 5.2 | 5.3 | 7.8 | 7.5 | 7.6 | 11.1 | 11.2 | 11.2 | 23.0 | 22.6 | 22.8 | 33.2 | 33.6 | 33.4 |
| 13859 | 6.1 | 5.7 | 5.9 | 8.6 | 8.3 | 8.4 | 12.6 | 11.8 | 12.2 | 22.7 | 22.1 | 22.4 | 40.4 | 39.2 | 39.7 |
| 13860 | 5.7 | 5.7 | 5.7 | 8.5 | 8.4 | 8.5 | 11.9 | 12.2 | 12.0 | 23.4 | 22.8 | 23.2 | 36.7 | 37.5 | 37.0 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C36 (PAGE 3): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP III 3 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 13861 | 6.0 | 5.5 | 5.9 | 9.8 | 9.0 | 9.6 | 14.2 | 12.9 | 14.0 | 26.8 | 26.0 | 26.7 | 34.6 | 33.6 | 34.4 |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | |
| 13863 | 6.0 | 5.5 | 5.7 | 9.3 | 9.1 | 9.2 | 13.8 | 13.6 | 13.7 | 22.0 | 22.0 | 22.0 | 32.1 | 31.4 | 31.6 |
| 13864 | 6.4 | 6.4 | 6.4 | 11.4 | 11.3 | 11.4 | 18.3 | 18.5 | 18.4 | 38.8 | 38.2 | 38.6 | 59.6 | 60.6 | 60.0 |
| 13865 | 5.4 | 5.4 | 5.4 | 8.4 | 8.5 | 8.4 | 11.5 | 11.6 | 11.6 | 19.0 | 18.6 | 18.8 | 29.9 | 29.0 | 29.4 |
| 13866 | 6.6 | 6.2 | 6.3 | 8.9 | 8.5 | 8.7 | 10.8 | 10.4 | 10.6 | 22.2 | 21.4 | 21.8 | 35.1 | 31.7 | 33.2 |
| 13867 | 6.0 | 5.9 | 5.9 | 6.5 | 6.8 | 6.7 | 9.6 | 9.6 | 9.6 | 20.8 | 21.2 | 20.9 | 29.4 | 29.1 | 29.3 |
| 13868 | 5.7 | 5.4 | 5.6 | 9.2 | 8.6 | 8.9 | 13.5 | 12.7 | 13.1 | 26.0 | 25.9 | 25.9 | 34.4 | 33.9 | 34.1 |
| 13869 | 6.4 | 6.1 | 6.3 | 8.3 | 8.1 | 8.2 | 10.8 | 10.6 | 10.7 | 20.7 | 18.0 | 19.3 | 31.9 | 27.7 | 29.6 |
| 13870 | 7.2 | 6.6 | 6.8 | 9.2 | 9.1 | 9.2 | 13.2 | 13.1 | 13.1 | 27.9 | 28.0 | 27.9 | 39.6 | 40.1 | 40.0 |
| 13871 | 6.3 | 6.0 | 6.1 | 7.9 | 7.5 | 7.6 | 12.2 | 11.8 | 11.9 | 19.7 | 19.0 | 19.2 | 28.0 | 28.3 | 28.2 |
| 13872 | 5.7 | 5.4 | 5.6 | 7.7 | 7.5 | 7.6 | 11.2 | 10.7 | 11.0 | 21.4 | 20.2 | 20.8 | 31.0 | 28.7 | 29.9 |
| 13873 | 6.2 | 5.9 | 6.0 | 8.6 | 8.8 | 8.7 | 12.5 | 13.2 | 12.8 | 23.3 | 24.5 | 23.9 | 35.1 | 35.4 | 35.2 |
| 13874 | 7.3 | 6.3 | 6.6 | 11.7 | 10.2 | 10.6 | 17.2 | 14.7 | 15.5 | 32.1 | 28.2 | 29.4 | 50.7 | 44.5 | 46.4 |
| 13875 | 6.1 | 6.0 | 6.0 | 8.9 | 8.6 | 8.7 | 12.5 | 12.5 | 12.5 | 25.4 | 24.0 | 24.7 | 37.3 | 37.4 | 37.3 |
| 13876 | 6.6 | 6.2 | 6.4 | 10.2 | 9.9 | 10.1 | 15.7 | 15.0 | 15.4 | 30.1 | 29.0 | 29.6 | 48.2 | 45.9 | 47.1 |
| 13877 | 7.1 | 6.4 | 6.7 | 9.8 | 8.3 | 9.1 | 13.5 | 12.0 | 12.8 | 30.0 | 27.0 | 28.6 | 46.2 | 41.6 | 44.1 |
| 13878 | 7.5 | 7.3 | 7.4 | 9.9 | 10.6 | 10.4 | 14.8 | 15.4 | 15.3 | 31.2 | 32.0 | 31.9 | 48.8 | 48.4 | 48.5 |
| 13879 | 7.1 | 6.7 | 6.9 | 11.6 | 11.4 | 11.5 | 15.7 | 16.0 | 15.8 | 31.8 | 31.2 | 31.5 | 48.4 | 48.7 | 48.6 |
| 13880 | 6.7 | 6.4 | 6.6 | 11.7 | 11.6 | 11.7 | 15.5 | 15.3 | 15.4 | 29.6 | 30.2 | 29.7 | 48.3 | 47.9 | 48.2 |
| 13881 | 6.5 | 6.0 | 6.2 | 11.0 | 10.0 | 10.5 | 15.4 | 14.5 | 15.0 | 29.3 | 29.3 | 29.3 | 39.7 | 38.1 | 39.0 |
| 13882 | 5.8 | 5.2 | 5.6 | 9.5 | 8.9 | 9.3 | 14.4 | 13.1 | 14.0 | 27.2 | 26.2 | 26.9 | 41.6 | 39.2 | 40.8 |
| 13883 | 6.8 | 6.6 | 6.7 | 10.3 | 10.3 | 10.3 | 14.6 | 14.8 | 14.7 | 27.2 | 27.5 | 27.3 | 46.3 | 46.4 | 46.3 |
| 13884 | 6.5 | 6.1 | 6.3 | 9.8 | 8.9 | 9.4 | 12.0 | 11.1 | 11.6 | 28.2 | 26.4 | 27.4 | 43.2 | 39.5 | 41.5 |
| 13885 | 7.4 | 7.4 | 7.4 | 13.9 | 13.7 | 13.8 | 19.0 | 18.5 | 18.9 | 33.8 | 32.0 | 33.2 | 53.5 | 53.5 | 53.5 |
| 13886 | 6.3 | 6.2 | 6.3 | 9.4 | 9.3 | 9.3 | 13.9 | 13.4 | 13.7 | 25.8 | 24.4 | 25.2 | 42.9 | 40.2 | 41.8 |
| 13887 | 6.3 | 5.9 | 6.2 | 11.2 | 10.2 | 10.9 | 16.0 | 15.1 | 15.7 | 32.2 | 30.2 | 31.7 | 50.8 | 47.3 | 49.9 |
| 13888 | 6.6 | 6.1 | 6.2 | 9.2 | 8.7 | 8.8 | 11.2 | 10.8 | 10.9 | 25.1 | 22.3 | 22.7 | 36.4 | 30.7 | 31.5 |
| 13889 | 5.6 | 5.3 | 5.5 | 8.7 | 7.8 | 8.3 | 12.5 | 11.8 | 12.2 | 26.3 | 24.7 | 25.7 | 35.6 | 32.2 | 34.3 |
| 13890 | 6.5 | 5.9 | 5.9 | 9.5 | 9.1 | 9.1 | 13.6 | 12.6 | 12.7 | 26.9 | 24.8 | 24.9 | 43.1 | 38.1 | 38.5 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C36 (PAGE 4): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP IV 10 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 13891 | 6.9 | 6.8 | 6.9 | 11.1 | 10.8 | 10.9 | 15.4 | 15.3 | 15.3 | 30.5 | 29.2 | 29.7 | 48.6 | 45.8 | 46.9 |
| 13892 | 5.8 | 5.6 | 5.7 | 9.0 | 8.6 | 8.8 | 13.0 | 12.4 | 12.7 | 25.4 | 24.5 | 24.9 | 39.2 | 37.0 | 38.0 |
| 13893 | 6.7 | 6.1 | 6.4 | 10.4 | 9.8 | 10.1 | 14.9 | 13.9 | 14.4 | 26.9 | 25.6 | 26.2 | 43.0 | 41.0 | 41.9 |
| 13894 | 6.7 | 5.9 | 6.3 | 8.6 | 7.6 | 8.1 | 12.6 | 11.1 | 11.8 | 25.7 | 23.1 | 24.3 | 38.5 | 34.9 | 36.6 |
| 13895 | 5.5 | 5.4 | 5.5 | 7.9 | 8.0 | 7.9 | 12.0 | 12.4 | 12.1 | 24.9 | 26.0 | 25.2 | 38.4 | 39.2 | 38.6 |
| 13896 | 6.8 | 6.3 | 6.6 | 10.5 | 9.8 | 10.1 | 14.8 | 14.2 | 14.5 | 26.5 | 24.7 | 25.5 | 42.2 | 38.1 | 39.8 |
| 13897 | 7.0 | 6.5 | 6.7 | 10.1 | 9.5 | 9.8 | 14.3 | 14.1 | 14.2 | 29.8 | 28.3 | 29.1 | 46.8 | 43.0 | 44.9 |
| 13898 | 6.4 | 5.9 | 6.1 | 8.9 | 8.4 | 8.6 | 12.0 | 10.9 | 11.4 | 22.3 | 20.7 | 21.4 | 29.9 | 27.5 | 28.6 |
| 13899 | 6.4 | 5.9 | 6.2 | 10.0 | 9.4 | 9.7 | 13.5 | 12.7 | 13.1 | 21.7 | 20.1 | 21.0 | 34.8 | 32.5 | 33.8 |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | |
| 13901 | 6.3 | 5.9 | 6.1 | 7.8 | 7.0 | 7.3 | 10.5 | 9.3 | 9.9 | 22.2 | 19.8 | 20.9 | 31.7 | 28.7 | 30.1 |
| 13902 | 6.7 | 6.7 | 6.7 | 9.9 | 9.2 | 9.5 | 13.7 | 12.7 | 13.2 | 26.6 | 23.9 | 25.2 | 42.4 | 39.2 | 40.7 |
| 13903 | 6.7 | 6.7 | 6.7 | 10.9 | 10.7 | 10.8 | 14.6 | 14.4 | 14.5 | 26.0 | 25.6 | 25.7 | 40.3 | 41.0 | 40.8 |
| 13904 | 6.8 | 6.3 | 6.6 | 9.8 | 9.1 | 9.6 | 11.6 | 10.0 | 11.0 | 19.6 | 17.3 | 18.8 | 35.1 | 31.5 | 33.8 |
| 13905 | 6.1 | 5.3 | 5.6 | 9.7 | 9.0 | 9.2 | 14.3 | 13.2 | 13.6 | 25.3 | 23.9 | 24.3 | 38.0 | 37.4 | 37.6 |
| 13906 | 6.3 | 6.0 | 6.1 | 10.0 | 9.5 | 9.7 | 15.1 | 14.8 | 15.0 | 30.5 | 30.3 | 30.4 | 48.3 | 48.1 | 48.2 |
| 13907 | 5.7 | 5.4 | 5.6 | 8.6 | 8.2 | 8.4 | 12.4 | 12.1 | 12.3 | 18.6 | 18.2 | 18.5 | 27.9 | 27.0 | 27.6 |
| 13908 | 7.2 | 7.0 | 7.1 | 11.2 | 11.2 | 11.2 | 16.7 | 16.4 | 16.5 | 36.3 | 36.0 | 36.1 | 55.4 | 55.0 | 55.2 |
| 13909 | 5.6 | 5.5 | 5.5 | 8.7 | 8.6 | 8.6 | 12.8 | 12.5 | 12.6 | 24.2 | 23.5 | 23.7 | 39.4 | 38.3 | 38.7 |
| 13910 | 6.1 | 5.8 | 5.9 | 10.0 | 10.0 | 10.0 | 14.9 | 14.9 | 14.9 | 22.1 | 23.4 | 22.9 | 36.8 | 37.5 | 37.2 |
| 13911 | 6.5 | 6.2 | 6.4 | 9.7 | 9.4 | 9.6 | 12.5 | 12.0 | 12.4 | 26.6 | 25.6 | 26.2 | 42.4 | 41.1 | 42.0 |
| 13912 | 5.9 | 5.4 | 5.7 | 8.7 | 8.0 | 8.3 | 12.6 | 11.5 | 12.0 | 25.8 | 24.4 | 25.1 | 39.5 | 37.8 | 38.7 |
| 13913 | 6.1 | 5.7 | 5.9 | 10.4 | 9.8 | 10.1 | 15.1 | 14.3 | 14.8 | 29.1 | 28.6 | 28.9 | 45.4 | 43.2 | 44.4 |
| 13914 | 5.9 | 5.7 | 5.8 | 8.8 | 8.5 | 8.6 | 12.0 | 11.7 | 11.8 | 23.5 | 22.9 | 23.2 | 32.5 | 31.9 | 32.2 |
| 13915 | 6.2 | 6.0 | 6.0 | 8.9 | 8.8 | 8.8 | 12.0 | 11.8 | 11.9 | 22.1 | 21.3 | 21.7 | 36.2 | 34.2 | 35.3 |
| 13916 | 6.2 | 5.8 | 6.0 | 8.8 | 8.0 | 8.3 | 13.2 | 12.1 | 12.6 | 27.6 | 24.3 | 25.7 | 44.4 | 39.0 | 41.4 |
| 13917 | 6.6 | 6.3 | 6.4 | 10.0 | 9.2 | 9.5 | 13.7 | 13.1 | 13.3 | 28.1 | 27.3 | 27.6 | 43.9 | 43.5 | 43.7 |
| 13918 | 6.4 | 6.1 | 6.2 | 10.3 | 9.6 | 9.9 | 15.7 | 14.6 | 15.0 | 29.0 | 27.1 | 27.8 | 44.6 | 40.8 | 42.2 |
| 13919 | 6.1 | 5.9 | 6.0 | 9.6 | 8.6 | 9.1 | 11.9 | 10.6 | 11.2 | 24.0 | 21.8 | 22.7 | 39.0 | 35.7 | 37.1 |
| 13920 | 6.3 | 6.1 | 6.2 | 8.8 | 8.3 | 8.5 | 10.3 | 10.0 | 10.1 | 16.9 | 15.2 | 16.1 | 31.8 | 30.0 | 30.9 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C36 (PAGE 5): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP V 30 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 13921 | 6.3 | 5.6 | 6.1 | 8.7 | 7.6 | 8.3 | 11.8 | 10.2 | 11.1 | 23.8 | 20.4 | 22.3 | 40.0 | 33.3 | 37.1 |
| 13922 | 4.3 | 4.0 | 4.2 | 6.7 | --- | 6.7 | 9.0 | --- | 9.0 | 22.2 | --- | 22.2 | 39.0 | --- | 39.0 |
| 13923 | 6.0 | 5.6 | 5.8 | 8.4 | 8.2 | 8.3 | 11.1 | 10.8 | 10.9 | 21.0 | 19.4 | 20.2 | 32.6 | 30.2 | 31.4 |
| 13924 | 5.8 | 5.8 | 5.8 | 8.5 | 8.0 | 8.3 | 12.3 | 11.1 | 11.8 | 22.4 | 20.7 | 21.7 | 33.0 | 29.9 | 31.7 |
| 13925 | 6.0 | 5.5 | 5.7 | 7.9 | 7.4 | 7.7 | 10.4 | 10.5 | 10.5 | 20.3 | 20.4 | 20.4 | 33.2 | 32.8 | 33.0 |
| 13926 | 5.5 | 5.2 | 5.4 | 7.3 | 7.2 | 7.2 | 11.0 | 10.8 | 10.9 | 23.3 | 23.0 | 23.2 | 32.8 | 32.0 | 32.5 |
| 13927 | 5.7 | 5.4 | 5.6 | 8.9 | 8.1 | 8.4 | 11.5 | 11.3 | 11.4 | 15.3 | 14.3 | 14.8 | 24.8 | 23.2 | 23.9 |
| 13928 | 6.9 | 6.4 | 6.6 | 9.1 | 8.5 | 8.7 | 13.1 | 11.6 | 12.0 | 26.9 | 25.0 | 25.5 | 41.6 | 38.3 | 39.2 |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | |
| 13930 | 5.7 | 5.2 | 5.4 | 6.6 | 6.1 | 6.4 | 9.8 | 9.0 | 9.4 | 19.2 | 18.8 | 19.1 | 24.8 | 23.2 | 24.1 |
| 13931 | 5.2 | 5.0 | 5.1 | 6.2 | 6.0 | 6.1 | 7.1 | 6.8 | 7.0 | 17.2 | 16.6 | 16.9 | 26.1 | 25.7 | 25.9 |
| 13932 | 6.1 | 5.6 | 5.9 | 8.7 | 8.0 | 8.4 | 12.5 | 11.5 | 12.0 | 23.0 | 22.2 | 22.6 | 33.4 | 32.6 | 33.0 |
| 13933 | 6.6 | 6.0 | 6.2 | 9.4 | 9.0 | 9.1 | 12.0 | 11.6 | 11.7 | 17.2 | 17.2 | 17.2 | 28.5 | 27.6 | 27.9 |
| 13934 | 5.3 | 5.3 | 5.3 | 6.5 | 6.9 | 6.8 | 7.9 | 9.7 | 9.4 | 15.4 | 20.0 | 19.6 | 29.4 | 32.5 | 32.3 |
| 13935 | 5.6 | 5.4 | 5.5 | 8.9 | 8.4 | 8.6 | 12.4 | 11.5 | 12.0 | 22.0 | 20.7 | 21.3 | 33.6 | 32.0 | 32.8 |
| 13936 | 5.8 | 5.4 | 5.7 | 9.6 | 9.2 | 9.6 | 13.6 | 13.3 | 13.6 | 25.1 | 23.9 | 24.9 | 41.2 | 37.3 | 40.4 |
| 13937 | 7.3 | 6.8 | 7.0 | 11.2 | 10.6 | 10.9 | 15.3 | 14.4 | 14.7 | 26.0 | 24.2 | 24.9 | 41.7 | 40.4 | 40.9 |
| 13938 | 5.6 | 5.4 | 5.4 | 7.1 | 7.1 | 7.1 | 10.1 | 10.3 | 10.2 | 17.0 | 17.1 | 17.0 | 27.0 | 27.6 | 27.3 |
| 13939 | 5.6 | 5.5 | 5.5 | 8.6 | 8.3 | 8.4 | 13.0 | 12.4 | 12.7 | 25.6 | 24.2 | 24.8 | 41.4 | 39.9 | 40.6 |
| 13940 | 5.7 | 5.4 | 5.5 | 9.1 | 8.4 | 8.7 | 12.4 | 11.3 | 11.7 | 23.4 | 21.3 | 22.2 | 32.2 | 29.1 | 30.3 |
| 13941 | 6.2 | 5.9 | 6.1 | 9.7 | 9.1 | 9.5 | 13.6 | 13.0 | 13.4 | 24.7 | 22.8 | 24.1 | 39.4 | 35.1 | 38.1 |
| 13942 | 5.8 | 5.4 | 5.6 | 9.3 | 8.9 | 9.2 | 13.4 | 13.0 | 13.2 | 24.1 | 23.4 | 23.9 | 36.3 | 35.5 | 36.0 |
| 13943 | 7.2 | 6.7 | 6.8 | 12.6 | 11.4 | 11.7 | 18.7 | 16.4 | 17.1 | 36.5 | 35.8 | 36.0 | 57.4 | 54.1 | 55.0 |
| 13944 | 5.8 | 5.5 | 5.6 | 7.0 | 6.5 | 6.7 | 10.2 | 9.2 | 9.5 | 22.2 | 21.5 | 21.7 | 37.3 | 34.8 | 35.5 |
| 13945 | 5.5 | 5.7 | 5.6 | 9.4 | 9.6 | 9.5 | 13.9 | 14.0 | 13.9 | 25.7 | 25.3 | 25.5 | 39.3 | 39.4 | 39.4 |
| 13946 | 6.5 | 6.1 | 6.3 | 10.2 | 9.4 | 9.8 | 15.0 | 14.0 | 14.4 | 30.0 | 27.8 | 28.8 | 44.8 | 42.4 | 43.5 |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | | | | | | | | | | | |
| 13948 | 5.9 | 5.5 | 5.7 | 8.8 | 8.1 | 8.6 | 12.8 | 11.4 | 12.3 | 26.4 | 25.1 | 26.0 | 43.2 | 40.8 | 42.3 |
| 13949 | 5.6 | 5.4 | 5.5 | 9.2 | 8.8 | 9.1 | 13.3 | 12.6 | 13.1 | 27.8 | 27.2 | 27.6 | 42.2 | 40.1 | 41.6 |
| 13950 | 6.0 | 5.5 | 5.8 | 9.2 | 9.0 | 9.1 | 13.4 | 13.3 | 13.4 | 28.2 | 27.2 | 27.8 | 45.2 | 44.7 | 45.0 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 1): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | 0 MG/KG/DAY | | | | | | POSTPARTUM DAY 1 | | | | |
| 13801 | 5.5 | 5.5 | 5.2 | 5.9 | 5.1 | 5.4 | 5.6 | 5.3 | 5.1 | | | | | | | | | |
| 13802 | 7.0 | 6.8 | 7.1 | 6.7 | 7.0 | 7.1 | 6.7 | 7.0 | 5.8 | 5.9 | 6.6 | 6.7 | 5.9 | 6.1 | | | | |
| 13803 | 7.6 | 6.6 | 7.6 | 8.7 | 5.4 | 8.3 | 7.8 | 7.2 | 6.4 | 7.4 | 6.0 | 7.7 | 8.0 | 5.6 | 6.8 | 6.6 | | |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | | | | |
| 13805 | 7.1 | 6.5 | 6.9 | 7.4 | 7.4 | 7.8 | 6.7 | 6.1 | 7.3 | 6.7 | 7.3 | 6.7 | 6.7 | | | | | |
| 13806 | 5.9 | 5.6 | 6.0 | 5.9 | 6.2 | 5.1 | 5.5 | 5.1 | 6.0 | 5.8 | 5.4 | 5.5 | 6.1 | 5.5 | 6.1 | 5.5 | 6.0 | |
| 13807 | 6.7 | 6.8 | 6.1 | 6.2 | 6.1 | 6.0 | 6.4 | 6.0 | 6.5 | 6.2 | 6.0 | 6.0 | 6.6 | 6.4 | 5.4 | 5.4 | 5.8 | |
| 13808 | 7.1 | 6.6 | 6.5 | 5.9 | 6.4 | 6.6 | MS | 5.7 | 5.4 | 6.8 | 5.8 | 5.8 | 5.2 | | | | | |
| 13809 | 6.4 | 6.7 | 6.1 | 6.6 | 7.1 | 6.6 | 7.0 | 6.6 | 6.9 | 6.4 | 6.2 | 6.2 | 5.8 | | | | | |
| 13810 | 6.6 | 6.5 | 6.1 | 6.7 | 6.1 | MS | 5.9 | 6.1 | 6.5 | 5.6 | 5.6 | 6.4 | 5.7 | 5.9 | FD 1 | | | |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13812 | 6.2 | 6.2 | 6.7 | 6.2 | 6.7 | 6.9 | 6.4 | 6.5 | 6.7 | 6.2 | 6.2 | 6.3 | 6.6 | 6.7 | | | | |
| 13813 | 7.5 | 7.5 | 8.1 | 6.0 | 8.1 | 7.5 | 6.7 | 7.2 | 6.9 | 7.6 | 6.9 | 6.4 | UU | | | | | |
| 13814 | 5.7 | 5.9 | 5.9 | 5.8 | 6.2 | 5.4 | 5.4 | 5.8 | 6.2 | 5.3 | 6.1 | 5.8 | 4.8 | 5.4 | 5.5 | 5.5 | 4.0 | |
| 13815 | 5.7 | 5.9 | 6.0 | 5.4 | 5.6 | 6.1 | 5.9 | 5.7 | 6.2 | 5.3 | 5.5 | 5.3 | 5.6 | 5.9 | 5.4 | | | |
| 13816 | 6.5 | 6.4 | 6.9 | 6.2 | 6.7 | 6.3 | 6.3 | 6.0 | 5.8 | 6.2 | 6.4 | 5.8 | 6.3 | 6.0 | 6.2 | UU | | |
| 13817 | 7.2 | 7.0 | 6.9 | 6.8 | 6.6 | 7.1 | 6.9 | 6.0 | 6.4 | 6.3 | 7.1 | 5.7 | 6.5 | 6.0 | 6.5 | | | |
| 13818 | 5.9 | 6.1 | 6.3 | 5.6 | 6.4 | 6.4 | 6.4 | 6.2 | 5.5 | 5.8 | 5.5 | 5.1 | 5.1 | 5.5 | 5.8 | 5.4 | | |
| 13819 | 6.0 | 6.2 | 6.3 | 6.6 | MD 1 | 5.6 | 5.5 | 5.3 | 5.4 | 5.7 | 5.7 | 5.9 | 4.9 | | | | | |
| 13820 | 6.2 | 7.2 | 6.4 | 7.1 | 6.5 | 6.1 | 5.7 | 6.3 | 6.2 | 5.7 | 6.6 | 6.4 | 6.1 | 6.4 | | | | |
| 13821 | 5.9 | 5.7 | 5.4 | 6.0 | 6.0 | 5.6 | 5.4 | 5.3 | 5.2 | 5.6 | 5.5 | 4.9 | 5.8 | 5.0 | 5.4 | 5.3 | 5.0 | |
| 13822 | 7.1 | 7.5 | 7.1 | 6.6 | 7.2 | 6.9 | 6.5 | 6.7 | 6.4 | 6.7 | 6.6 | 6.5 | | | | | | |
| 13823 | 7.5 | 6.9 | 6.7 | 7.0 | 7.0 | 6.7 | 6.4 | 7.0 | 7.2 | | | | | | | | | |
| 13824 | 7.0 | 6.6 | 6.3 | 7.0 | 6.6 | 6.9 | 6.3 | 6.4 | 6.3 | 6.2 | 5.9 | 6.8 | 5.6 | 5.4 | 6.1 | 6.5 | | |
| 13825 | 6.2 | 6.5 | 6.3 | 6.7 | 6.2 | 6.0 | 6.6 | 5.7 | 5.7 | 6.6 | 6.1 | 7.0 | 6.1 | 6.1 | 6.5 | | | |
| 13826 | 7.3 | 6.2 | 6.2 | 6.4 | 6.7 | 6.7 | 7.4 | 7.2 | 6.3 | 6.4 | 6.8 | 6.2 | 6.0 | 5.8 | 6.3 | 5.9 | | |
| 13827 | 6.9 | 6.1 | 6.5 | 6.4 | 6.3 | 6.2 | 6.5 | 5.8 | 7.1 | 6.5 | 6.0 | 6.3 | 3.4 | 6.5 | 5.5 | 6.1 | | |
| 13828 | 7.1 | 6.3 | 6.5 | 6.8 | 6.5 | 6.6 | 6.3 | 6.5 | 6.7 | 5.6 | 6.6 | 6.1 | 5.9 | 6.5 | | | | |
| 13829 | 6.7 | 6.7 | 6.3 | 6.7 | 6.5 | 7.3 | 6.5 | 6.7 | 6.0 | 5.9 | 6.6 | 6.3 | 6.5 | | | | | |
| 13830 | 5.7 | 5.4 | 5.4 | 5.3 | 5.4 | 5.8 | 5.3 | MS | 5.4 | 5.2 | 5.5 | 5.1 | 4.7 | 5.7 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 2): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | 1 MG/KG/DAY | | | | | | POSTPARTUM DAY 1 | | | | |
| 13831 | 5.9 | 6.3 | 6.6 | 6.5 | 5.9 | 6.9 | 6.3 | 6.4 | 6.1 | 6.7 | 6.3 | 6.1 | 6.1 | 5.6 | 6.4 | 6.1 | 5.4 | |
| 13832 | 7.0 | 6.6 | 7.0 | 6.6 | 7.5 | 7.1 | 6.6 | 6.8 | 6.2 | 6.7 | 6.8 | 6.2 | 6.5 | 6.5 | | | | |
| 13833 | 6.3 | 5.8 | 5.8 | 6.1 | 5.2 | 5.2 | 5.5 | 5.6 | 6.1 | 5.8 | 4.9 | 5.6 | 5.8 | 5.4 | 5.6 | | | |
| 13834 | 6.4 | 6.6 | 6.7 | 5.6 | 6.2 | 6.4 | 5.2 | 5.5 | 6.8 | 5.6 | 6.0 | 5.8 | 5.4 | | | | | |
| 13835 | 5.7 | 6.5 | 6.0 | 5.8 | 6.0 | 6.1 | 4.2 | 5.8 | 5.5 | 5.7 | 5.6 | 6.0 | 4.4 | 5.2 | 5.4 | 5.6 | 5.6 | 5.4 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | | | | |
| 13837 | 6.2 | 5.6 | 6.3 | 6.3 | 6.4 | 5.1 | 5.6 | 5.8 | 6.2 | 6.2 | 5.3 | FS | | | | | | |
| 13838 | 6.2 | 6.4 | 6.5 | 6.6 | 7.1 | 6.3 | 6.4 | 5.7 | 6.1 | 5.6 | 5.9 | 5.0 | 6.3 | 5.9 | 6.5 | 5.7 | 5.9 | 5.6 |
| 13839 | 6.9 | 6.3 | 6.6 | 6.3 | 7.0 | 6.5 | 6.4 | 5.8 | 6.6 | 6.5 | 6.8 | 6.1 | | | | | | |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13841 | 5.9 | 5.8 | 5.5 | 6.5 | 5.9 | 5.8 | 5.9 | 5.6 | 5.7 | 4.9 | FD | UU | | | | | | |
| 13842 | 5.8 | 6.7 | 6.1 | 5.8 | 6.2 | 6.0 | 6.7 | 5.7 | 5.7 | 5.5 | 5.7 | 6.0 | 5.8 | | | | | |
| 13843 | 6.5 | 6.8 | 6.4 | 6.6 | 7.0 | 5.7 | 5.2 | 6.1 | 5.8 | 6.5 | | | | | | | | |
| 13844 | 6.4 | 5.8 | 6.0 | 6.2 | 6.0 | 5.8 | 5.3 | 5.7 | 5.5 | 5.7 | 5.5 | 5.8 | 6.1 | 6.3 | 5.5 | 5.5 | 5.7 | |
| 13845 | 6.8 | 6.9 | 6.9 | 6.9 | 6.3 | 6.8 | 6.6 | 6.5 | 6.7 | 6.5 | 6.1 | 7.1 | | | | | | |
| 13846 | 5.9 | 6.3 | 6.0 | 6.4 | 5.8 | 6.2 | 6.3 | 6.1 | 5.8 | 5.9 | 5.8 | 3.5 | 5.9 | 6.1 | | | | |
| 13847 | 6.4 | 6.0 | 5.3 | MS | MS | MS | MS | 5.2 | 5.7 | 6.1 | 5.9 | 6.0 | FS | FS | FS | | | |
| 13848 | 6.8 | 6.6 | 6.9 | 6.3 | 6.6 | 6.7 | 7.0 | 6.4 | 6.3 | 6.6 | 7.3 | 7.1 | 6.1 | 6.4 | 6.4 | 5.9 | | |
| 13849 | 6.7 | 6.1 | 6.1 | 5.4 | 6.5 | 6.4 | 5.8 | 6.8 | 5.6 | 6.3 | 6.3 | 6.1 | 5.9 | 6.0 | 5.6 | 6.1 | | |
| 13850 | 5.9 | 5.9 | 5.9 | 6.0 | 6.1 | 5.8 | 5.0 | 5.4 | 5.5 | 6.0 | 5.5 | 5.7 | FS | | | | | |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13852 | 6.5 | 5.5 | 7.0 | 6.2 | 6.5 | 6.2 | 6.7 | 6.1 | 6.0 | 6.6 | 6.2 | 5.8 | | | | | | |
| 13853 | 4.9 | 5.2 | 5.2 | 5.3 | 5.1 | 4.8 | 5.4 | 5.5 | 5.1 | 5.1 | 4.7 | 4.9 | 3.7 | 4.5 | 5.0 | 4.9 | 4.9 | |
| 13854 | 6.3 | 6.8 | 5.9 | 6.2 | 5.9 | 6.4 | 6.3 | 6.1 | 6.4 | 5.9 | 5.4 | 5.4 | 6.6 | 6.3 | 5.9 | 5.6 | 6.1 | |
| 13855 | 5.8 | 4.8 | 5.8 | 5.7 | 6.2 | 6.0 | 5.6 | 5.9 | 5.9 | 5.1 | 5.4 | 5.6 | 5.5 | 5.4 | 6.1 | FD 1 | | |
| 13856 | 5.8 | 5.8 | 6.0 | 5.7 | 5.5 | 5.4 | 5.2 | 6.3 | 5.4 | 4.7 | 5.0 | 5.5 | 5.0 | 4.4 | 5.4 | 5.5 | | |
| 13857 | 6.7 | 6.8 | 6.6 | 7.2 | 5.9 | 6.7 | 5.8 | 6.0 | 6.5 | 6.4 | 5.7 | 6.5 | 6.5 | 6.7 | FS | | | |
| 13858 | 5.7 | 5.0 | 5.5 | 5.5 | 5.6 | 5.6 | 5.1 | 5.2 | 6.2 | 5.3 | 5.2 | 5.1 | 5.1 | 5.0 | 5.0 | 5.6 | 5.0 | |
| 13859 | 6.0 | 6.3 | 5.8 | 6.3 | 6.0 | 6.3 | 5.5 | 5.8 | 5.3 | 5.7 | 6.0 | 5.8 | 5.7 | 5.5 | 5.9 | | | |
| 13860 | 5.4 | 6.2 | 5.5 | 5.7 | 5.7 | 6.0 | 5.8 | 5.8 | 5.4 | 5.7 | 5.4 | 5.7 | 5.9 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 3): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | | 3 MG/KG/DAY | | | | | | POSTPARTUM DAY 1 | | | | |
| 13861 | 6.3 | 5.7 | 5.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.2 | 5.1 | 5.9 | | | | | | | | |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | | | | |
| 13863 | 5.7 | 6.5 | 6.0 | 5.7 | 6.3 | 5.8 | 6.1 | 5.9 | 3.5 | 5.3 | 5.5 | 5.6 | 5.8 | 5.7 | 5.7 | 5.5 | | |
| 13864 | 7.1 | 6.8 | 5.9 | 5.8 | 6.4 | 6.4 | FS | | | | | | | | | | | |
| 13865 | 5.3 | 5.6 | 4.3 | 5.6 | 5.7 | 5.1 | 5.9 | MD 1 | 4.9 | 5.4 | 5.7 | 5.8 | 5.4 | 5.6 | 5.5 | 5.1 | 4.8 | |
| 13866 | 6.2 | 6.1 | 6.5 | 6.3 | 6.7 | 6.8 | 7.4 | 6.5 | 6.1 | 6.2 | 6.1 | 6.2 | 6.2 | 6.4 | 6.1 | 6.1 | 6.2 | 5.9 |
| 13867 | 6.5 | 5.7 | 6.1 | 6.2 | 5.8 | 5.1 | 6.3 | 5.6 | 6.5 | MS | 5.6 | 6.0 | 5.8 | 5.8 | 5.7 | 6.3 | | |
| 13868 | 5.5 | 5.6 | 6.1 | 5.7 | 5.5 | 5.5 | 5.8 | 5.7 | 5.5 | 5.7 | 5.3 | 5.1 | 5.0 | 5.7 | 5.6 | 5.5 | | |
| 13869 | 6.4 | 6.2 | 7.0 | 6.2 | 6.2 | 6.1 | 7.1 | 6.4 | 6.7 | 6.1 | 5.7 | 6.0 | 6.1 | 6.0 | 6.1 | 6.1 | | |
| 13870 | 7.0 | 7.5 | 7.2 | 6.6 | 6.2 | 6.1 | 6.5 | 7.0 | | | | | | | | | | |
| 13871 | 6.4 | 5.9 | 6.3 | 6.6 | 6.2 | 5.7 | 6.0 | 6.2 | 6.3 | 6.0 | 6.3 | 6.0 | 6.0 | 4.7 | 6.3 | | | |
| 13872 | 5.1 | 5.7 | 5.8 | 5.6 | 6.3 | 5.6 | 6.0 | 5.7 | 5.7 | 6.4 | 5.6 | 6.0 | 5.0 | 4.7 | 5.0 | 5.2 | 5.7 | |
| 13873 | 6.0 | 5.9 | 7.1 | 6.0 | 4.7 | 6.6 | 6.5 | 6.5 | 6.1 | 5.5 | 6.0 | 6.3 | 5.5 | 5.7 | 5.6 | 6.2 | 6.2 | |
| 13874 | 7.4 | 7.8 | 7.4 | 6.9 | 7.2 | 6.6 | 6.4 | 6.4 | 6.5 | 6.4 | 6.9 | 5.8 | 7.0 | 6.7 | 6.7 | 6.2 | 4.5 | |
| 13875 | 6.5 | 6.6 | 6.3 | 5.0 | 6.1 | 5.7 | 6.1 | 6.5 | 6.3 | 5.9 | 5.7 | 5.6 | 5.5 | 6.2 | 6.3 | 6.4 | | |
| 13876 | 6.5 | 6.6 | 6.1 | 6.8 | 6.9 | 6.6 | 6.5 | 6.2 | 6.7 | 6.1 | 5.6 | 6.1 | 6.5 | FS | FD 1 | | | |
| 13877 | 7.3 | 7.1 | 7.2 | 7.3 | 6.5 | 7.0 | 7.1 | 6.0 | 6.1 | 6.5 | 6.7 | 6.7 | 6.2 | FS | | | | |
| 13878 | 7.7 | 7.3 | 7.5 | 7.3 | 7.7 | 6.6 | 7.3 | 7.4 | 7.4 | | | | | | | | | |
| 13879 | 7.0 | 7.4 | 6.7 | 6.7 | 7.5 | 7.5 | 6.8 | 6.1 | 6.2 | 7.2 | 7.0 | | | | | | | |
| 13880 | 6.6 | 7.4 | 7.4 | 6.3 | 6.6 | 7.2 | 6.7 | 6.9 | 5.5 | 6.3 | 6.8 | 6.0 | 6.3 | | | | | |
| 13881 | 5.3 | 6.9 | 7.1 | 6.4 | 6.6 | 6.7 | 6.0 | 5.9 | 5.4 | 6.1 | 6.4 | | | | | | | |
| 13882 | 5.3 | 5.6 | 6.1 | 5.9 | 5.9 | 6.0 | 5.5 | 6.1 | 5.5 | 5.7 | 4.8 | 5.0 | 6.3 | 5.3 | 5.6 | 4.4 | | |
| 13883 | 6.7 | 6.3 | 7.5 | 6.9 | 6.1 | 6.6 | 7.3 | 6.3 | 5.9 | 7.2 | 7.2 | 6.1 | 6.6 | 6.7 | FD 1 | | | |
| 13884 | 7.2 | 6.6 | 6.5 | 5.4 | 7.0 | 6.4 | 6.6 | 5.0 | 6.2 | 6.4 | 6.3 | | | | | | | |
| 13885 | 6.9 | 8.0 | 7.4 | | | | | | | | | | | | | | | |
| 13886 | 6.3 | 5.9 | 6.7 | 6.3 | 6.1 | 6.5 | 6.4 | 5.8 | 6.6 | 6.0 | 6.2 | 6.4 | | | | | | |
| 13887 | 6.4 | 6.4 | 6.5 | 5.9 | 6.8 | 6.1 | 5.9 | 6.3 | 5.7 | 6.0 | 6.1 | | | | | | | |
| 13888 | 7.0 | 6.1 | 6.0 | 5.7 | 6.1 | 6.0 | 6.1 | 6.1 | 6.1 | 6.6 | 6.4 | 6.1 | 6.6 | 5.7 | FS | | | |
| 13889 | 5.7 | 5.7 | 5.7 | 5.4 | 5.9 | 5.7 | 5.7 | 5.0 | 5.3 | 5.7 | 5.3 | 5.3 | 5.7 | 5.2 | 4.9 | 5.2 | | |
| 13890 | 6.5 | 6.1 | 5.6 | 6.0 | 5.4 | 5.9 | 6.1 | 5.2 | 6.0 | 6.7 | 6.0 | 5.7 | 6.3 | 6.0 | 5.5 | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 4): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | POSTPARTUM DAY 1 | | | | | | |
| 13891 | 6.7 | 6.9 | 6.9 | 7.2 | MS | 7.2 | 6.8 | 6.5 | 6.7 | 6.8 | 7.0 | | | | | | | |
| 13892 | 6.1 | 5.8 | 5.9 | 5.8 | 5.8 | 5.6 | 5.6 | 5.7 | 6.1 | 5.5 | 5.4 | 5.4 | 5.3 | 6.1 | 5.1 | FS | | |
| 13893 | 7.0 | 6.5 | 6.8 | 6.2 | 6.7 | 6.5 | 7.3 | 5.5 | 5.6 | 5.6 | 6.0 | 6.2 | 6.6 | 6.9 | 6.6 | | | |
| 13894 | 6.5 | 7.2 | 5.8 | 6.9 | 6.3 | 6.4 | 7.7 | 5.9 | 4.4 | 6.0 | 6.5 | 6.3 | 6.2 | 6.0 | | | | |
| 13895 | 5.7 | 6.2 | 5.4 | 5.1 | 5.6 | 4.2 | 5.5 | 5.8 | 6.3 | 5.2 | 5.9 | 5.3 | 5.3 | 5.6 | 5.2 | | | |
| 13896 | 5.9 | 7.0 | 7.1 | 6.9 | 7.3 | 6.5 | 6.9 | 6.7 | 6.1 | 6.0 | 6.3 | 5.9 | | | | | | |
| 13897 | 7.4 | 7.3 | 7.0 | 6.6 | 6.8 | 6.7 | 7.2 | 6.5 | 5.8 | 6.3 | 6.2 | 6.9 | | | | | | |
| 13898 | 6.3 | 6.8 | 6.8 | 6.3 | 6.8 | 6.0 | 5.6 | 6.5 | 5.7 | 6.3 | 5.8 | 5.4 | 6.2 | 5.5 | 5.7 | 6.0 | 6.3 | |
| 13899 | 6.4 | 6.4 | 6.3 | 6.4 | 6.0 | 6.6 | 6.3 | 6.0 | 5.9 | 5.6 | 5.9 | | | | | | | |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | |
| 13901 | 6.4 | 6.0 | 6.4 | 6.4 | 6.5 | 6.7 | 5.7 | 5.7 | 6.2 | 5.6 | 5.3 | 6.2 | 6.2 | 5.9 | 5.9 | 6.3 | | |
| 13902 | 6.5 | 6.6 | 7.1 | 6.7 | 6.6 | 7.4 | 6.1 | 7.4 | 6.4 | 6.2 | 6.9 | 6.5 | 6.4 | 6.9 | 6.6 | | | |
| 13903 | 6.3 | 6.5 | 6.7 | 7.3 | 6.8 | 7.0 | 6.7 | 7.4 | 7.0 | 6.3 | 5.3 | 6.5 | 7.3 | 6.7 | | | | |
| 13904 | 7.4 | 7.1 | 5.9 | 6.8 | 7.2 | 7.1 | 6.5 | 7.1 | 6.4 | 6.1 | 6.5 | 6.2 | 6.2 | 6.3 | | | | |
| 13905 | 6.7 | 6.0 | 4.6 | 7.3 | 6.0 | 5.1 | 5.6 | 5.0 | 4.8 | 5.7 | 5.3 | 5.1 | 4.9 | 5.3 | 6.3 | 5.6 | | |
| 13906 | 5.7 | 6.7 | 5.8 | 6.7 | 6.0 | 6.7 | MS | MS | 6.3 | 5.6 | 6.2 | 6.0 | 6.5 | 5.3 | 6.4 | 5.8 | | |
| 13907 | 5.9 | 5.8 | 5.9 | 5.8 | 5.5 | 6.1 | 5.1 | 5.5 | 5.5 | 5.6 | 5.7 | 4.8 | 5.3 | 5.6 | 5.5 | 5.3 | | |
| 13908 | 7.5 | 6.9 | 5.9 | 8.1 | | | | | | | | | | | | | | |
| 13909 | 5.6 | 5.9 | 5.8 | 5.1 | 5.4 | 5.2 | 5.8 | 5.5 | 5.4 | 5.9 | 5.9 | 5.5 | 5.5 | 5.0 | | | | |
| 13910 | 5.3 | 6.2 | 6.3 | 6.7 | 6.7 | 5.5 | 5.7 | 6.0 | 5.5 | 6.0 | 6.0 | 5.7 | 5.7 | 6.1 | 5.5 | | | |
| 13911 | 6.5 | 6.5 | 6.5 | 6.7 | 6.6 | 6.5 | 6.3 | 6.7 | 6.3 | 6.4 | 5.8 | 6.4 | | | | | | |
| 13912 | 5.9 | 6.7 | 5.7 | 5.1 | 6.0 | 6.5 | 5.7 | 5.5 | 5.2 | 5.4 | 5.3 | 5.4 | 5.4 | 5.5 | | | | |
| 13913 | 6.2 | 6.3 | 6.0 | 6.1 | 5.9 | 6.0 | 6.2 | 6.4 | 5.3 | 5.9 | 5.9 | 5.4 | 5.3 | | | | | |
| 13914 | 6.0 | 5.6 | 5.3 | 6.1 | 5.9 | 5.9 | 6.7 | 5.6 | 6.3 | 6.0 | 6.2 | 5.5 | 6.0 | 5.4 | 5.7 | 5.2 | 5.3 | 5.7 |
| 13915 | 6.3 | 6.5 | 6.1 | 5.5 | 6.6 | 5.8 | 5.8 | 6.8 | 6.0 | 5.4 | 5.9 | 5.9 | 5.9 | 6.1 | 5.9 | 6.2 | 6.3 | |
| 13916 | 6.5 | 6.1 | 6.8 | 6.4 | 6.1 | 5.6 | 6.1 | 5.8 | 5.7 | 5.9 | 5.8 | 5.9 | 5.4 | 6.3 | 6.1 | 5.8 | | |
| 13917 | 6.3 | 7.0 | 6.6 | 6.0 | 6.1 | 6.9 | 6.1 | | | | | | | | | | | |
| 13918 | 6.6 | 6.3 | 6.4 | 6.1 | 6.5 | 6.6 | 5.5 | 6.7 | 6.4 | 6.3 | 5.8 | 6.1 | 5.6 | 5.7 | | | | |
| 13919 | 6.2 | 6.0 | 6.5 | 6.3 | 5.6 | 6.0 | 6.3 | 5.9 | 5.8 | 4.9 | 6.6 | 5.4 | 5.8 | 6.6 | | | | |
| 13920 | 7.1 | 6.5 | 6.6 | 6.6 | 4.9 | 6.4 | 6.2 | 5.9 | 5.7 | 6.4 | 6.0 | 6.1 | 5.7 | 6.1 | 6.6 | 6.1 | | |

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SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
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TABLE C37 (PAGE 5): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 1 | | | | |
| 13921 | 6.5 | 6.0 | 6.0 | 6.5 | 6.1 | 5.8 | 7.5 | 6.5 | 6.2 | 5.5 | 6.2 | 6.2 | 5.0 | 5.6 | 5.4 | | | |
| 13922 | 3.9 | 4.1 | 4.4 | 4.7 | 4.5 | MD 1 | MD 1 | 4.3 | 3.8 | | | | | | | | | |
| 13923 | 5.3 | 6.0 | 6.3 | 6.5 | 5.9 | 6.3 | 5.8 | 5.3 | 6.2 | 5.8 | 5.5 | 5.3 | 5.6 | 5.9 | | | | |
| 13924 | 6.0 | 6.1 | 6.1 | 5.2 | 5.9 | 5.4 | 5.5 | 5.9 | 6.0 | 6.4 | 6.3 | 5.7 | 5.8 | 6.1 | 5.8 | 5.4 | 5.2 | |
| 13925 | 6.8 | 6.3 | 6.3 | 4.7 | 5.5 | 6.4 | 5.6 | 4.9 | 6.0 | 5.3 | 5.8 | 5.5 | 5.5 | | | | | |
| 13926 | 5.4 | 5.8 | 5.7 | 5.5 | 5.0 | 5.0 | 5.5 | 5.8 | MS | 4.8 | 5.2 | 5.0 | 5.3 | 5.3 | 5.7 | | | |
| 13927 | 6.1 | 5.3 | 5.7 | 6.0 | 5.4 | 6.1 | 5.6 | 5.9 | 5.7 | 5.5 | 4.4 | 5.5 | 5.1 | 6.0 | 5.6 | 5.4 | | |
| 13928 | 6.9 | 6.8 | 6.6 | 7.3 | 6.5 | 7.1 | 6.4 | 6.8 | 6.0 | 7.2 | 6.0 | 5.9 | 6.1 | 6.7 | 6.0 | 6.6 | | |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13930 | 5.4 | 5.5 | 5.0 | 5.8 | 5.6 | 6.1 | 6.0 | 6.0 | 5.9 | 5.3 | 5.5 | 4.9 | 4.4 | 5.2 | 5.4 | 5.7 | 5.1 | 5.1 |
| 13931 | 5.2 | 5.6 | 5.5 | 5.7 | 5.3 | 4.9 | 5.4 | 4.4 | 4.7 | 5.1 | 5.2 | 4.5 | 5.2 | 5.1 | 5.1 | | | |
| 13932 | 6.4 | 5.6 | 6.6 | 6.2 | 6.3 | 6.0 | 5.9 | 5.9 | 5.3 | 5.6 | 5.6 | 5.7 | 5.9 | 5.6 | | | | |
| 13933 | 6.6 | 6.2 | 6.6 | 6.9 | 6.7 | 6.5 | 6.6 | 6.2 | 5.8 | 5.4 | 5.6 | 5.6 | 6.4 | | | | | |
| 13934 | 5.7 | 5.1 | 5.1 | 5.2 | 5.9 | 5.3 | 5.4 | 5.4 | 4.8 | 5.5 | 5.2 | 5.4 | 5.6 | 5.4 | 4.4 | | | |
| 13935 | 5.6 | 5.7 | 5.9 | 5.4 | 5.6 | 5.4 | 5.8 | 5.7 | 5.7 | 5.3 | 4.9 | 5.3 | 5.1 | 5.3 | 5.9 | | | |
| 13936 | 6.2 | 5.9 | 6.1 | 6.4 | 6.0 | 6.4 | 5.3 | 6.1 | 6.1 | 5.4 | 4.2 | 5.4 | 5.8 | 4.9 | | | | |
| 13937 | 7.5 | 7.8 | 6.9 | 7.2 | 7.4 | 6.9 | 7.3 | 6.7 | 7.2 | 7.4 | 7.1 | 6.4 | 6.6 | 6.2 | 6.7 | | | |
| 13938 | 5.8 | 6.0 | 5.3 | 5.6 | 5.6 | 5.4 | 5.2 | 5.5 | 5.4 | 5.0 | 5.7 | 5.3 | 5.6 | 5.3 | 5.3 | 5.3 | | |
| 13939 | 5.6 | 6.0 | 5.9 | 5.1 | 5.8 | 5.3 | 5.2 | 5.9 | 5.4 | 5.7 | 4.7 | 5.3 | 5.9 | 5.5 | FS | | | |
| 13940 | 5.7 | 5.2 | 5.6 | 6.0 | 5.9 | 5.6 | 6.2 | 5.2 | 4.8 | 5.4 | 5.7 | 5.3 | 5.8 | 5.2 | 5.5 | | | |
| 13941 | 5.2 | 6.7 | 5.6 | 6.3 | 6.2 | 6.3 | 7.0 | 6.1 | 6.6 | 6.3 | 5.9 | 6.0 | 5.4 | FS | | | | |
| 13942 | 6.0 | 5.8 | 5.6 | 5.0 | 6.2 | 6.2 | 5.7 | 6.1 | 5.2 | 5.6 | 6.1 | 5.4 | 5.4 | 5.3 | 5.6 | 5.3 | | |
| 13943 | 7.7 | 6.6 | 6.1 | 7.0 | 7.0 | 5.9 | 7.7 | | | | | | | | | | | |
| 13944 | 5.8 | 5.6 | 6.0 | 6.0 | 5.5 | 5.5 | 5.4 | 5.6 | 6.1 | 5.5 | 5.2 | 5.5 | | | | | | |
| 13945 | 5.5 | 5.6 | 5.8 | 5.5 | 5.5 | 5.4 | 5.3 | 5.6 | 5.4 | 5.4 | 5.8 | 5.8 | 5.7 | 5.6 | | | | |
| 13946 | 6.7 | 6.6 | 6.4 | 6.4 | 6.2 | 6.0 | 5.9 | 6.1 | 6.1 | 6.4 | 6.2 | | | | | | | |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | | | | | | | | | | | | | | |
| 13948 | 6.6 | 5.2 | 6.1 | 6.1 | 5.6 | 6.3 | 5.7 | 5.3 | 5.7 | 5.4 | 5.6 | 5.3 | | | | | | |
| 13949 | 5.5 | 5.4 | 5.2 | 5.5 | 6.3 | 5.8 | 5.4 | 5.2 | 6.0 | 5.3 | 5.3 | 5.4 | 5.6 | | | | | |
| 13950 | 5.8 | 6.2 | 6.2 | 6.0 | 5.8 | 5.7 | MS | 5.3 | 5.5 | 5.2 | 6.0 | 5.6 | FS | FS | | | | |

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FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
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| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | 0 MG/KG/DAY | | | | | | POSTPARTUM DAY 5 | | | | |
| 13801 | 9.5 | 8.1 | 9.2 | 8.4 | 7.9 | 8.5 | 9.2 | 8.2 | 8.5 | | | | | | | | | |
| 13802 | 12.0 | 12.4 | 12.5 | 12.2 | 12.2 | 12.2 | 11.4 | 11.6 | 11.9 | 10.7 | 11.9 | 11.6 | 10.9 | 10.1 | | | | |
| 13803 | 11.3 | 9.6 | 9.4 | 11.8 | 11.4 | 14.1 | 10.7 | 12.1 | 7.1 | 10.7 | 12.1 | 12.0 | 9.3 | 11.8 | 11.8 | 10.5 | | |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | | | | |
| 13805 | 10.2 | 10.3 | 11.7 | 10.1 | 10.6 | 10.8 | 9.8 | 10.0 | 10.1 | 9.9 | 11.1 | 9.0 | 10.1 | | | | | |
| 13806 | 7.7 | 8.7 | 8.2 | 8.7 | 8.3 | MM 3 | 8.6 | 8.4 | 8.1 | 8.4 | 7.7 | 8.4 | 7.6 | 8.0 | 8.4 | 8.2 | 8.5 | |
| 13807 | 9.5 | 9.4 | 9.2 | 9.0 | 9.3 | 9.0 | 9.2 | 8.5 | 9.6 | 8.6 | 8.4 | 7.9 | 8.9 | 8.1 | 9.8 | 8.6 | 9.2 | |
| 13808 | 10.7 | 10.5 | 9.4 | 10.4 | 10.6 | 9.3 | MS | 9.8 | 10.7 | 9.6 | 10.1 | 9.0 | 10.1 | | | | | |
| 13809 | 9.7 | 10.2 | 9.8 | 10.6 | 9.6 | 10.4 | 10.2 | 9.0 | 9.6 | 9.3 | 8.6 | 9.3 | 9.6 | | | | | |
| 13810 | 10.3 | 10.3 | 9.9 | 8.9 | MD 3 | MS | 8.4 | 9.7 | 9.2 | 9.2 | 10.5 | 9.6 | 9.6 | 9.0 | FD 1 | | | |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13812 | 10.6 | 9.6 | 9.1 | 10.7 | 10.7 | 10.1 | 10.6 | 11.2 | 11.6 | 10.6 | 10.4 | 9.9 | 10.1 | 10.9 | | | | |
| 13813 | 12.6 | 12.4 | 11.5 | 11.7 | 9.6 | 10.4 | 10.9 | 11.6 | 12.7 | 11.3 | 11.7 | 12.3 | UU | | | | | |
| 13814 | 7.8 | 8.3 | 7.6 | 8.4 | 7.9 | 8.2 | 8.1 | 9.0 | 8.0 | 8.7 | 6.6 | 7.2 | 8.1 | 7.2 | 7.7 | 6.7 | FM 2 | |
| 13815 | 8.7 | 8.4 | 8.6 | 7.9 | 7.6 | 8.3 | 7.6 | 8.3 | 8.4 | 8.2 | 7.7 | 8.3 | 7.5 | 8.5 | 7.4 | | | |
| 13816 | 9.0 | 9.1 | 8.5 | 9.4 | 8.6 | 8.9 | 8.5 | 8.0 | 8.9 | 8.1 | 8.2 | 8.2 | 8.3 | 8.9 | 8.2 | UU | | |
| 13817 | 9.3 | 9.2 | 9.3 | 9.7 | 9.4 | 8.4 | 9.7 | 9.3 | 8.6 | 9.0 | 8.6 | 8.8 | 8.9 | 8.0 | FD 2 | | | |
| 13818 | 7.3 | 7.8 | 7.3 | 7.9 | 7.8 | 7.6 | 6.4 | 7.3 | 7.1 | 7.2 | 6.2 | 6.8 | 7.6 | 7.2 | FM 4 | FD 2 | | |
| 13819 | 10.4 | 9.4 | 9.1 | 9.9 | MD 1 | 8.8 | 9.2 | 9.2 | 7.5 | 8.3 | 6.8 | 8.0 | 9.2 | | | | | |
| 13820 | 9.3 | 8.6 | 9.9 | 8.4 | 8.7 | 9.5 | 8.5 | 8.4 | 7.5 | 9.7 | 8.3 | 8.8 | 9.2 | 8.3 | | | | |
| 13821 | 10.7 | 9.7 | 9.6 | 8.9 | 8.8 | 8.9 | 9.9 | 9.5 | 9.0 | 8.9 | 9.5 | 8.6 | 8.7 | 8.8 | 8.6 | 9.7 | 8.5 | |
| 13822 | 11.6 | 12.1 | 12.5 | 11.7 | 11.4 | 11.3 | 11.1 | 11.6 | 11.8 | 10.6 | 11.2 | 10.9 | | | | | | |
| 13823 | 13.1 | 13.3 | 12.0 | 12.6 | 13.3 | 12.4 | 12.8 | 12.7 | 12.8 | | | | | | | | | |
| 13824 | 10.2 | 9.6 | 9.8 | 9.9 | 9.5 | 9.2 | 8.5 | 11.0 | 8.9 | 9.0 | 8.6 | 9.2 | 9.3 | 9.0 | 9.2 | 7.8 | | |
| 13825 | 8.3 | 7.9 | 9.0 | 7.6 | 8.2 | 9.0 | 8.6 | 7.3 | 8.3 | 7.6 | 6.6 | 7.9 | 8.2 | 8.6 | 9.1 | | | |
| 13826 | 9.9 | 8.5 | 10.6 | 10.2 | 10.2 | 10.1 | 9.8 | 9.8 | 9.2 | 8.9 | 8.4 | 9.0 | 9.6 | 9.5 | 9.4 | 8.4 | | |
| 13827 | 9.8 | 8.9 | 9.7 | 9.5 | 10.4 | 9.4 | 9.4 | 9.7 | MM 2 | 9.4 | 9.1 | 9.1 | 9.3 | 9.3 | 8.8 | 8.9 | | |
| 13828 | 9.1 | 8.0 | 8.7 | 8.9 | 8.6 | 9.1 | 8.5 | 8.4 | 7.9 | 8.3 | 8.5 | 7.2 | 8.6 | 8.7 | | | | |
| 13829 | 10.1 | 8.9 | 9.7 | 10.3 | 9.8 | 10.2 | 9.9 | 10.8 | 9.0 | 9.1 | 9.1 | 10.3 | 10.0 | | | | | |
| 13830 | 8.4 | 7.7 | 7.9 | 8.3 | 7.4 | 8.3 | 7.8 | MS | 8.3 | 7.7 | 7.9 | 7.2 | 7.7 | 8.0 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
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PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 7): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | 1 MG/KG/DAY | | | | | | POSTPARTUM DAY 5 | | | | |
| 13831 | 9.6 | 9.0 | 9.6 | 9.7 | 9.8 | 8.6 | 9.5 | 8.8 | 9.2 | 9.8 | 9.6 | 10.5 | 8.6 | 9.4 | 9.0 | 7.5 | 8.6 | |
| 13832 | 10.2 | 10.6 | 10.7 | 9.7 | 8.0 | 10.4 | 10.4 | 9.2 | 10.4 | 9.6 | 9.3 | 10.7 | 10.1 | 9.1 | | | | |
| 13833 | 9.2 | 8.6 | 9.4 | 8.1 | 9.8 | 9.0 | 9.3 | 9.1 | 9.3 | 8.1 | 9.1 | 7.6 | 9.1 | 8.3 | FM 3 | | | |
| 13834 | 9.0 | 10.3 | 10.6 | 10.1 | 10.3 | 10.1 | 9.4 | 9.2 | 8.7 | 9.2 | 9.8 | 9.8 | 9.1 | | | | | |
| 13835 | 9.4 | 8.7 | 8.6 | 8.2 | 9.1 | 8.3 | 8.6 | 8.5 | 8.3 | 6.9 | 8.0 | 8.3 | 9.1 | 8.0 | 8.1 | 8.0 | FD 3 | FD 2 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | | | | |
| 13837 | 8.5 | 9.2 | 8.5 | 8.0 | 8.1 | 8.0 | 8.0 | 8.0 | 7.0 | 7.2 | 8.9 | FS | | | | | | |
| 13838 | 9.9 | 9.5 | 8.8 | 8.3 | 8.9 | 8.9 | 9.4 | 8.2 | 8.5 | 8.8 | 8.7 | 8.4 | 6.0 | 9.0 | 8.0 | 8.2 | 8.7 | FD 4 |
| 13839 | 10.4 | 10.3 | 9.3 | 8.7 | 10.0 | 7.4 | 9.0 | 10.0 | 10.2 | 9.9 | 10.8 | 10.8 | | | | | | |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13841 | 8.7 | 10.4 | 9.9 | 9.1 | 8.9 | 9.7 | 9.5 | 9.0 | 7.8 | 9.4 | FD | UU | | | | | | |
| 13842 | 8.7 | 7.9 | 6.9 | 9.7 | 9.8 | 7.9 | 7.7 | 8.4 | 8.4 | 7.4 | 7.8 | 7.7 | 9.1 | | | | | |
| 13843 | 7.9 | 7.6 | 8.3 | 8.0 | 8.4 | 7.2 | 6.5 | 6.8 | 7.4 | 8.1 | | | | | | | | |
| 13844 | 7.3 | 7.9 | 6.9 | 7.3 | 8.7 | 8.5 | 8.3 | 8.2 | 7.0 | 7.3 | 8.0 | 6.2 | 5.9 | 7.0 | 6.7 | 7.0 | 8.0 | |
| 13845 | 10.6 | 9.6 | 9.2 | 8.5 | 10.2 | 9.9 | 10.0 | 10.0 | 9.1 | 10.1 | 9.9 | 9.8 | | | | | | |
| 13846 | 8.9 | 10.1 | 8.9 | 8.3 | 9.5 | 9.6 | 9.5 | 9.3 | 8.5 | 8.7 | 8.5 | 8.3 | 8.5 | FM 2 | | | | |
| 13847 | 10.6 | 9.9 | 10.7 | MS | MS | MS | MS | 10.7 | 10.1 | 11.1 | 9.6 | 9.6 | FS | FS | FS | | | |
| 13848 | 9.8 | 10.2 | 9.5 | 8.5 | 8.6 | 8.8 | 10.2 | 8.6 | 9.2 | 9.1 | 10.2 | 10.4 | 9.1 | 8.8 | 9.0 | 9.3 | | |
| 13849 | 8.9 | 8.2 | 8.4 | 7.7 | 7.8 | 8.3 | 8.3 | 8.9 | 8.3 | 8.5 | 7.3 | 7.5 | 7.9 | 8.1 | 7.6 | 7.5 | | |
| 13850 | 8.9 | 8.1 | 8.4 | 8.5 | 8.7 | 8.6 | 7.6 | 8.4 | 7.6 | 8.1 | 8.1 | 9.1 | FS | | | | | |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13852 | 8.5 | 9.4 | 9.3 | 9.8 | 10.2 | 10.0 | 8.3 | 9.0 | 9.7 | 9.4 | 9.4 | 8.4 | | | | | | |
| 13853 | 7.8 | 8.5 | 7.7 | 8.1 | 7.2 | 7.0 | 8.5 | 8.5 | 8.0 | 7.1 | 8.2 | 7.3 | 7.9 | 7.9 | 7.2 | 7.2 | 7.4 | |
| 13854 | 8.5 | 9.0 | 9.4 | 8.7 | 9.5 | 9.4 | 10.1 | 9.3 | 10.1 | 9.2 | 9.7 | 9.8 | 9.1 | 9.6 | 8.8 | 8.0 | 8.7 | |
| 13855 | 10.0 | 9.5 | 10.2 | 9.7 | 10.1 | 7.6 | 9.1 | 10.5 | 10.2 | 9.7 | 9.2 | 9.7 | 8.4 | 9.9 | FD 5 | FD 1 | | |
| 13856 | 8.7 | 8.6 | 9.0 | 9.7 | 9.3 | 9.7 | 8.9 | 10.0 | 8.7 | 9.1 | 7.3 | 8.7 | 7.0 | 8.5 | 7.5 | 8.9 | | |
| 13857 | 9.7 | 10.7 | 10.3 | 10.3 | 10.0 | 9.4 | 9.8 | 10.0 | 9.3 | 10.0 | 10.0 | 9.9 | 10.2 | 9.2 | FS | | | |
| 13858 | 7.4 | 7.9 | 7.5 | 8.6 | 8.3 | 8.0 | 8.0 | 7.0 | 7.3 | 8.3 | 7.8 | 7.6 | 7.6 | 7.8 | 7.4 | 6.9 | 6.8 | |
| 13859 | 9.0 | 8.2 | 8.8 | 8.8 | 8.1 | 8.4 | 8.6 | 8.3 | 7.2 | 8.5 | 7.7 | 8.9 | 8.4 | 8.2 | 8.7 | | | |
| 13860 | 8.9 | 9.1 | 8.0 | 8.2 | 8.3 | 8.7 | 7.7 | 9.0 | 8.7 | 8.0 | 8.7 | 8.5 | 8.5 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

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TABLE C37 (PAGE 8): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | | 3 MG/KG/DAY | | | | | | POSTPARTUM DAY 5 | | | | |
| 13861 | 10.5 | 10.2 | 10.6 | 10.4 | 8.3 | 9.4 | 8.7 | 10.3 | 7.7 | 10.4 | | | | | | | | |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | | | | |
| 13863 | 9.4 | 9.0 | 9.2 | 9.1 | 10.0 | 9.7 | 8.8 | 9.5 | 9.4 | 9.0 | 8.4 | 8.8 | 9.5 | 8.1 | 9.5 | FM 3 | | |
| 13864 | 10.7 | 12.4 | 12.2 | 10.4 | 12.1 | 10.5 | FS | | | | | | | | | | | |
| 13865 | 9.2 | 9.2 | 7.9 | 8.6 | 6.5 | 8.7 | 8.6 | MD 1 | 9.4 | 8.8 | 9.3 | 8.2 | 8.8 | 8.1 | 8.8 | 7.7 | 7.3 | |
| 13866 | 10.2 | 8.1 | 8.1 | 9.3 | 9.2 | 9.0 | 8.8 | 8.4 | 8.9 | 8.7 | 8.6 | 8.1 | 8.3 | 8.4 | 8.1 | 8.3 | 8.9 | 8.8 |
| 13867 | 6.1 | 7.4 | 6.9 | 7.1 | 7.3 | 6.9 | 7.1 | 4.5 | 5.6 | MS | 7.1 | 6.5 | 6.5 | 7.2 | 7.3 | 6.5 | | |
| 13868 | 9.9 | 8.3 | 8.9 | 9.8 | 9.3 | 8.6 | 10.1 | 8.9 | 8.5 | 8.7 | 8.4 | 8.4 | 8.4 | 8.5 | 8.4 | 9.3 | | |
| 13869 | 7.6 | 8.7 | 8.5 | 8.7 | 9.3 | 7.3 | 8.3 | 8.3 | 8.6 | 7.7 | 8.5 | 8.2 | 8.6 | 7.5 | 7.5 | FD 4 | | |
| 13870 | 9.3 | 9.2 | 8.4 | 8.5 | 7.5 | 10.4 | 10.0 | 10.0 | | | | | | | | | | |
| 13871 | 8.8 | 7.5 | 7.4 | 8.0 | MD 3 | 8.6 | 7.9 | 8.0 | 7.9 | 7.2 | 7.7 | 7.3 | 4.8 | 7.8 | FD 4 | | | |
| 13872 | 7.6 | 7.6 | 7.9 | 7.4 | 8.0 | 7.6 | 7.7 | 8.0 | 7.6 | 8.7 | 7.9 | 7.4 | 7.6 | 7.7 | 6.9 | 6.8 | 6.7 | |
| 13873 | 8.9 | 5.7 | 9.4 | 9.1 | 10.2 | 9.0 | 7.3 | 8.8 | 7.8 | 9.1 | 8.7 | 8.6 | 8.4 | 9.1 | 9.4 | 9.5 | FM 4 | |
| 13874 | 10.8 | 12.4 | 11.5 | 11.9 | 11.7 | 10.3 | 8.5 | 10.4 | 10.5 | 9.6 | 10.1 | 11.1 | 9.9 | 10.5 | 10.8 | 10.3 | FD 2 | |
| 13875 | 10.1 | 8.9 | 8.7 | 9.0 | 9.3 | 9.6 | 9.0 | 6.7 | 9.1 | 7.8 | 9.9 | 9.3 | 7.1 | 9.2 | 8.5 | 7.5 | | |
| 13876 | 10.0 | 10.4 | 10.1 | 10.3 | 10.0 | 10.6 | 10.3 | 9.6 | 9.3 | 10.8 | 10.1 | 9.8 | 10.0 | FS | FD 1 | | | |
| 13877 | 9.6 | 9.3 | 10.6 | 9.8 | 10.3 | 9.4 | 9.3 | 8.3 | 8.9 | 8.3 | 8.3 | 7.4 | 8.6 | FS | | | | |
| 13878 | 10.5 | 9.3 | 11.1 | 11.3 | 10.4 | 11.3 | 9.2 | 10.5 | 10.3 | | | | | | | | | |
| 13879 | 11.2 | 11.5 | 12.2 | 11.9 | 11.5 | 11.6 | 11.3 | 11.8 | 10.7 | 11.3 | 11.9 | | | | | | | |
| 13880 | 12.1 | 12.3 | 9.7 | 13.0 | 12.2 | 12.5 | 11.7 | 11.1 | 11.0 | 11.4 | 10.9 | 11.2 | 12.8 | | | | | |
| 13881 | 11.6 | 11.5 | 11.4 | 8.9 | 10.4 | 11.9 | 10.5 | 9.9 | 10.4 | 10.0 | 9.3 | | | | | | | |
| 13882 | 9.1 | 8.6 | 9.8 | 9.9 | 9.2 | 9.5 | 10.0 | 9.9 | 10.2 | 8.9 | 10.8 | 8.1 | 10.2 | 7.3 | 8.1 | FD 3 | | |
| 13883 | 9.6 | 11.5 | 10.6 | 11.2 | 9.9 | 9.3 | 10.2 | 9.8 | 10.8 | 11.5 | 10.2 | 10.9 | 8.9 | 9.9 | FD 1 | | | |
| 13884 | 10.3 | 10.3 | 9.8 | 10.6 | 9.9 | 7.9 | 9.1 | 10.0 | 9.8 | 9.6 | 6.2 | | | | | | | |
| 13885 | 14.3 | 13.5 | 13.7 | | | | | | | | | | | | | | | |
| 13886 | 10.0 | 9.0 | 9.1 | 9.4 | 8.8 | 9.5 | 9.7 | 9.5 | 10.4 | 8.1 | 8.6 | 9.9 | | | | | | |
| 13887 | 11.0 | 11.0 | 10.7 | 11.5 | 11.1 | 11.2 | 10.9 | 11.8 | 11.1 | 9.6 | 9.8 | | | | | | | |
| 13888 | 9.0 | 9.5 | 9.0 | 9.5 | 8.5 | 8.6 | 8.3 | 9.2 | 8.6 | 8.7 | 8.7 | 8.7 | 8.3 | 8.8 | FS | | | |
| 13889 | 7.8 | 8.9 | 9.3 | 8.7 | 8.6 | 8.1 | 8.7 | 9.1 | 8.7 | 8.8 | 7.9 | 7.9 | 7.8 | 7.2 | 7.6 | 8.3 | | |
| 13890 | 9.5 | 10.1 | 8.4 | 9.7 | 9.0 | 9.5 | 8.8 | 9.0 | 9.5 | 9.6 | 9.0 | 9.9 | 5.9 | 9.7 | 9.1 | | | |

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TABLE C37 (PAGE 9): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | | | POSTPARTUM DAY 5 | | | | |
| 13891 | 10.0 | 11.5 | 11.2 | 11.6 | MS | 10.9 | 10.8 | 11.3 | 10.2 | 10.2 | 11.2 | | | | | | | |
| 13892 | 9.4 | 8.8 | 8.6 | 9.2 | 9.4 | 9.1 | 8.7 | 9.0 | 9.3 | 8.4 | 8.9 | 8.5 | 8.2 | 7.9 | 8.6 | FS | | |
| 13893 | 10.8 | 10.4 | 9.4 | 9.9 | 11.1 | 11.2 | 9.8 | 9.6 | 9.9 | 9.6 | 9.1 | 11.1 | 9.1 | 9.0 | 10.9 | | | |
| 13894 | 10.8 | 7.6 | 8.9 | 8.0 | 8.0 | 8.6 | MM 4 | 8.2 | 8.6 | 7.4 | 8.5 | 8.2 | 7.5 | 4.9 | | | | |
| 13895 | 9.4 | 9.3 | 7.9 | 6.9 | 6.6 | 8.7 | 7.5 | 8.1 | 9.8 | 5.1 | 7.2 | 8.0 | 8.0 | 7.2 | 8.6 | | | |
| 13896 | 10.6 | 9.6 | 10.7 | 10.6 | 11.1 | 9.2 | 9.5 | 9.2 | 10.3 | 10.5 | 9.7 | 10.4 | | | | | | |
| 13897 | 11.3 | 9.4 | 10.2 | 9.8 | 9.2 | 10.9 | 10.1 | 10.2 | 9.3 | 10.1 | 8.6 | 8.5 | | | | | | |
| 13898 | 8.8 | 9.2 | 9.8 | 9.9 | 8.4 | 7.6 | 8.7 | 8.5 | 8.8 | 8.9 | 8.1 | 7.7 | 8.6 | 7.7 | 8.9 | 8.2 | FD 3 | |
| 13899 | 10.1 | 9.6 | 10.6 | 10.1 | 10.1 | 9.4 | 8.7 | 9.3 | 8.8 | 10.8 | 9.4 | | | | | | | |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | |
| 13901 | 7.8 | 8.1 | 8.0 | 7.8 | 8.0 | 7.7 | 7.1 | 7.5 | 7.1 | 7.2 | 6.8 | 6.0 | 7.5 | 6.3 | 7.4 | 6.9 | | |
| 13902 | 10.1 | 9.7 | 9.1 | 10.5 | 9.7 | 9.7 | 10.5 | 8.7 | 9.0 | 9.5 | 9.5 | 9.5 | 9.8 | 9.2 | 8.6 | | | |
| 13903 | 10.3 | 11.3 | 11.6 | 10.4 | 10.6 | 11.8 | 11.2 | 8.2 | 10.8 | 11.4 | 11.7 | 10.6 | 10.4 | 10.3 | | | | |
| 13904 | 10.0 | 9.2 | 10.5 | 10.0 | 10.7 | 9.6 | 9.0 | 10.0 | 9.6 | 9.1 | 9.2 | 9.2 | 9.6 | 8.6 | | | | |
| 13905 | 11.3 | 10.1 | 6.6 | 9.7 | 11.0 | 8.5 | 9.7 | 9.2 | 8.4 | 11.0 | 8.1 | 9.1 | 8.6 | 7.7 | 9.0 | 9.7 | | |
| 13906 | 10.8 | 10.2 | 9.3 | 10.7 | 8.8 | MD 3 | MS | MS | 9.9 | 10.8 | 9.5 | 10.0 | 9.3 | 7.9 | 8.6 | 10.2 | | |
| 13907 | 9.1 | 8.8 | 8.5 | 8.3 | 9.2 | 9.0 | 8.5 | 6.9 | 8.1 | 9.2 | 7.7 | 8.6 | 8.6 | 8.2 | 8.6 | 7.7 | | |
| 13908 | 11.7 | 10.7 | 12.4 | 10.0 | | | | | | | | | | | | | | |
| 13909 | 8.7 | 8.7 | 8.2 | 9.0 | 9.0 | 8.9 | 8.4 | 8.1 | 7.9 | 9.1 | 8.6 | 8.9 | 8.8 | 8.9 | | | | |
| 13910 | 8.5 | 10.8 | 10.2 | 10.6 | 9.3 | 10.7 | 8.5 | 10.4 | 9.8 | 9.9 | 10.3 | 10.7 | 10.4 | 11.2 | 9.2 | | | |
| 13911 | 9.3 | 9.3 | 9.9 | 9.7 | 9.7 | 10.0 | 10.2 | 9.6 | 9.5 | 9.6 | 9.6 | 9.1 | | | | | | |
| 13912 | 8.2 | 7.8 | 9.3 | 8.8 | 9.5 | 8.2 | 9.1 | 7.8 | 8.3 | 8.5 | 8.6 | 7.5 | 6.8 | 8.3 | | | | |
| 13913 | 9.6 | 10.2 | 10.0 | 10.8 | 10.9 | 10.5 | 10.5 | 11.6 | 10.6 | 10.3 | 8.7 | 8.6 | 8.7 | | | | | |
| 13914 | 7.9 | 8.8 | 8.2 | 9.0 | 8.8 | 8.8 | 9.8 | 9.0 | 8.1 | 8.4 | 8.3 | 9.2 | 8.9 | 8.1 | 8.9 | 7.9 | 8.8 | FM 3 |
| 13915 | 9.6 | 8.3 | 9.0 | 9.2 | 9.2 | 8.2 | 9.2 | 9.5 | 8.2 | 9.1 | 8.8 | 8.4 | 9.1 | 8.6 | 9.1 | 8.6 | 8.4 | |
| 13916 | 9.4 | 8.3 | 8.9 | 7.9 | 9.4 | 9.3 | 8.7 | 8.2 | 8.3 | 8.5 | 7.4 | 8.1 | 7.4 | 7.6 | 7.4 | 8.7 | | |
| 13917 | 9.7 | 10.2 | 10.0 | 9.5 | 10.2 | 8.2 | 8.8 | | | | | | | | | | | |
| 13918 | 9.6 | 10.3 | 11.3 | 9.6 | 10.6 | 10.3 | 10.3 | 9.9 | 8.8 | 9.7 | 9.3 | 8.7 | 10.1 | 9.7 | | | | |
| 13919 | 9.3 | 9.7 | 9.5 | 9.9 | 9.2 | 10.3 | 9.4 | 9.4 | 9.1 | 7.9 | 8.2 | 7.5 | 8.9 | 8.8 | | | | |
| 13920 | 7.3 | 9.2 | 9.0 | 8.3 | 8.9 | 8.9 | 9.7 | 8.7 | 8.2 | 8.8 | 8.6 | 8.2 | 8.8 | 7.0 | 8.0 | FD 3 | | |

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SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 10): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 5 | | | | |
| 13921 | 8.4 | 7.1 | 9.2 | 9.3 | 9.6 | 9.7 | 9.0 | 8.9 | 7.3 | 7.3 | 8.5 | 7.9 | 5.4 | 8.2 | 8.3 | | | |
| 13922 | 7.0 | 5.8 | 6.8 | 7.3 | MM 2 | MD 1 | MD 1 | FM 2 | FM 2 | | | | | | | | | |
| 13923 | 8.8 | 7.6 | 8.2 | 8.1 | 8.4 | 9.2 | 8.8 | 7.6 | 8.0 | 8.6 | 7.5 | 8.2 | 8.7 | 9.1 | | | | |
| 13924 | 8.9 | 9.0 | 9.0 | 8.7 | 7.7 | 7.4 | 7.9 | 9.0 | 8.4 | 8.7 | 8.6 | 8.1 | 8.5 | 6.4 | 7.8 | 7.8 | 8.8 | |
| 13925 | 8.7 | 6.7 | 8.7 | 7.1 | 7.7 | 8.7 | 7.3 | 7.6 | 7.1 | 6.9 | 8.1 | 7.1 | 8.1 | | | | | |
| 13926 | 7.4 | 6.9 | 7.6 | 7.3 | 7.7 | 6.3 | 8.0 | 7.4 | MS | 7.4 | 6.4 | 8.0 | 6.9 | 7.1 | 7.2 | | | |
| 13927 | 9.1 | 9.4 | 8.6 | 9.1 | 8.7 | 8.2 | 9.0 | 8.6 | 8.4 | 9.2 | 8.9 | 5.4 | 8.0 | 7.7 | 7.8 | 9.0 | | |
| 13928 | 8.5 | 9.1 | 10.4 | 9.0 | 8.3 | MD 3 | 8.6 | 9.3 | 9.0 | 8.0 | 7.6 | 7.5 | 9.4 | 8.9 | 7.6 | 8.7 | | |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13930 | 7.1 | 6.1 | 6.7 | 7.2 | 6.6 | 8.0 | 6.5 | 5.2 | 6.5 | 3.9 | 6.7 | 6.5 | 5.9 | 6.8 | 6.1 | 6.6 | 6.1 | FM 5 |
| 13931 | 6.9 | 7.1 | 4.8 | 6.6 | 6.1 | 5.3 | 6.5 | 6.7 | 5.9 | 6.3 | 6.1 | 6.1 | 5.7 | 5.9 | FM 2 | | | |
| 13932 | 8.3 | 8.7 | 8.2 | 8.9 | 8.5 | 8.7 | 9.2 | 8.8 | 7.6 | 7.9 | 8.1 | 7.9 | 8.1 | 8.4 | | | | |
| 13933 | 9.3 | 10.1 | 9.8 | 8.2 | 9.6 | 9.3 | 8.2 | 8.3 | 8.7 | 9.8 | 9.1 | 9.1 | 9.3 | | | | | |
| 13934 | 6.2 | 6.8 | MM 4 | 7.4 | 7.0 | 6.5 | 7.2 | 6.2 | 7.5 | 5.4 | 7.2 | 6.2 | 7.6 | 7.5 | 7.3 | | | |
| 13935 | 8.7 | 8.8 | 9.3 | 8.9 | 8.9 | 9.2 | 8.4 | 6.6 | 8.2 | 8.4 | 8.7 | 8.8 | 9.0 | 8.3 | 9.3 | | | |
| 13936 | 10.6 | 8.5 | 10.2 | 10.0 | 10.1 | 9.9 | 10.3 | 10.0 | 10.7 | 7.5 | 8.4 | 7.9 | 9.5 | 10.1 | | | | |
| 13937 | 10.9 | 11.5 | 11.4 | 11.1 | 11.2 | 11.1 | 9.6 | 10.7 | 11.5 | 11.6 | 10.4 | 9.7 | 10.6 | 10.6 | 11.0 | | | |
| 13938 | 7.0 | 6.5 | 7.6 | 7.4 | 6.7 | 7.0 | 7.6 | MD 2 | 6.8 | 7.6 | 6.7 | 7.0 | 7.7 | 6.8 | 7.1 | 7.0 | | |
| 13939 | 7.4 | 8.5 | 8.9 | 8.9 | 8.4 | 8.6 | 9.5 | 7.8 | 9.0 | 8.3 | 8.2 | 8.9 | 6.8 | 9.2 | FS | | | |
| 13940 | 8.8 | 9.4 | 8.8 | 8.9 | 8.9 | 9.7 | 9.5 | 9.1 | 8.0 | 8.1 | 9.1 | 7.0 | 8.3 | 8.9 | 8.1 | | | |
| 13941 | 10.3 | 10.6 | 10.6 | 8.6 | 9.9 | 9.7 | 9.7 | 9.7 | 8.5 | 7.9 | 9.5 | 9.4 | 9.6 | FS | | | | |
| 13942 | 9.0 | 9.5 | 9.7 | 9.8 | 10.1 | 9.8 | 9.4 | 6.8 | 10.1 | 9.0 | 8.9 | 8.6 | 8.5 | 9.6 | 9.1 | 8.7 | | |
| 13943 | 12.1 | 13.1 | 11.7 | 13.8 | 9.2 | 11.9 | 10.3 | | | | | | | | | | | |
| 13944 | 6.9 | 6.6 | 7.6 | MM 5 | 5.3 | 6.6 | 6.3 | 5.7 | 7.5 | 6.2 | 7.5 | 7.2 | | | | | | |
| 13945 | 9.1 | 9.5 | 9.8 | 9.3 | 9.5 | 9.4 | 9.2 | 9.6 | 9.6 | 9.8 | 9.2 | 9.3 | 9.7 | 9.8 | | | | |
| 13946 | 11.2 | 9.6 | 10.0 | 9.9 | 10.4 | 9.4 | 9.6 | 9.0 | 9.2 | 9.5 | 9.6 | | | | | | | |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | | | | | | | | | | | | | | |
| 13948 | 9.6 | 8.3 | 8.5 | 8.7 | 9.6 | 9.2 | 8.1 | 7.6 | 8.3 | 7.7 | 8.7 | FM 3 | | | | | | |
| 13949 | 9.0 | 10.0 | 9.6 | 8.9 | 8.6 | 9.1 | 9.3 | 9.1 | 9.6 | 8.6 | 8.8 | 9.1 | 8.8 | | | | | |
| 13950 | 10.2 | 8.2 | 9.5 | 9.6 | 8.9 | 8.7 | MS | 10.0 | 8.6 | 8.7 | 8.8 | FD 2 | FS | FS | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 11): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | 0 MG/KG/DAY | | | | | | POSTPARTUM DAY 8 | | | | |
| 13801 | 13.1 | 13.4 | 12.9 | 13.2 | 13.2 | 12.3 | 12.8 | 14.2 | 13.3 | | | | | | | | | |
| 13802 | 17.2 | 18.1 | 18.2 | 17.8 | 17.5 | 16.1 | 17.1 | 17.7 | 17.6 | 16.1 | 17.7 | 18.0 | 15.3 | 16.2 | | | | |
| 13803 | 16.3 | 15.3 | 16.0 | 19.9 | 13.3 | 13.9 | 17.2 | 16.8 | 12.8 | FM 7 | 14.9 | 17.0 | 16.0 | 14.2 | 14.1 | 16.0 | | |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | | | | |
| 13805 | 16.5 | 16.0 | 14.9 | 14.7 | 14.7 | 15.4 | 13.7 | 13.2 | 13.8 | 12.8 | 14.4 | 15.0 | 15.1 | | | | | |
| 13806 | 12.6 | 11.3 | 10.6 | 11.7 | 13.1 | MM 3 | 12.3 | 12.2 | 12.3 | 11.8 | 12.0 | 11.7 | 11.6 | 11.8 | 12.0 | 13.7 | 12.7 | |
| 13807 | 13.0 | 12.6 | 10.9 | 13.0 | 11.6 | 11.6 | 12.9 | 12.0 | 11.7 | 13.8 | 13.3 | 10.8 | 11.8 | 10.6 | 12.6 | 11.2 | 12.7 | |
| 13808 | 14.2 | 15.2 | 15.0 | 15.7 | 13.4 | 13.4 | MS | 14.7 | 13.4 | 13.9 | 14.0 | 15.0 | 14.7 | | | | | |
| 13809 | 15.1 | 13.9 | 14.0 | 14.2 | 13.2 | 12.4 | 14.8 | 14.6 | 13.3 | 13.8 | 12.9 | 11.7 | 13.4 | | | | | |
| 13810 | 14.2 | 15.3 | 13.7 | 15.5 | MD 3 | MS | 14.8 | 12.3 | 14.2 | 13.7 | 14.4 | 15.4 | 14.0 | 13.0 | FD 1 | | | |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13812 | 16.0 | 15.9 | 14.6 | 15.4 | 15.8 | 14.6 | 14.1 | 16.5 | 15.1 | 15.0 | 15.5 | 14.8 | 14.3 | 15.6 | | | | |
| 13813 | 17.5 | 18.1 | 17.4 | 14.6 | 18.5 | 17.0 | 16.9 | 15.2 | 16.5 | 18.4 | 17.0 | 18.0 | UU | | | | | |
| 13814 | 11.3 | 10.8 | 10.9 | 11.5 | 9.1 | 12.1 | 10.5 | 12.2 | 10.8 | 11.2 | 11.7 | 11.2 | 11.7 | 8.0 | 10.6 | 11.0 | FM 2 | |
| 13815 | 12.0 | 10.0 | 11.6 | 11.4 | 11.5 | 10.9 | 11.3 | 10.4 | 10.4 | 12.1 | 11.4 | 9.2 | 10.3 | 10.3 | 11.3 | | | |
| 13816 | 12.6 | 11.9 | 11.2 | 11.2 | 10.8 | 10.6 | 11.7 | 10.0 | 10.1 | 11.3 | 11.3 | 10.6 | 11.8 | 11.0 | 10.7 | UU | | |
| 13817 | 12.6 | 12.9 | 13.1 | 12.5 | 13.0 | 12.9 | 11.8 | 12.0 | 12.5 | 10.8 | 12.6 | 12.3 | 11.9 | 12.0 | FD 2 | | | |
| 13818 | 10.6 | 11.2 | 9.1 | 11.3 | 12.0 | 11.4 | 10.9 | 11.2 | 9.0 | 10.5 | 11.4 | 8.6 | 9.6 | 9.7 | FM 4 | FD 2 | | |
| 13819 | 13.1 | 14.2 | 14.0 | 13.2 | MD 1 | 12.0 | 12.9 | 10.7 | 13.4 | 13.8 | 10.4 | 13.4 | 12.0 | | | | | |
| 13820 | 14.5 | 13.4 | 11.9 | 13.4 | 14.1 | 13.0 | 13.8 | 13.1 | 11.2 | 12.0 | 12.3 | 11.5 | 11.5 | 10.3 | | | | |
| 13821 | 13.0 | 13.8 | 14.4 | 15.5 | 14.2 | 12.9 | 15.2 | 12.9 | 13.9 | 12.8 | 12.1 | 13.9 | 13.6 | 12.8 | 12.8 | 12.0 | 13.4 | |
| 13822 | MX 8 | MX 8 | MX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | | | | | | |
| 13823 | 18.4 | 19.3 | 19.3 | 18.0 | 18.8 | 18.6 | 18.4 | 19.9 | 18.0 | | | | | | | | | |
| 13824 | 12.9 | 14.2 | 14.9 | 13.7 | 13.2 | 10.8 | 13.5 | 12.2 | 13.1 | 12.3 | 12.9 | 13.1 | 13.4 | 11.4 | 13.6 | 12.6 | | |
| 13825 | 12.0 | 11.9 | 12.6 | 11.8 | 12.0 | 12.1 | 11.8 | 12.3 | 13.1 | 11.6 | 11.4 | 13.1 | 10.8 | 9.9 | 12.5 | | | |
| 13826 | 13.3 | 13.6 | 9.7 | 13.8 | 14.6 | 13.4 | 13.3 | 11.6 | 11.2 | 12.9 | 13.4 | 12.2 | 12.5 | 12.2 | 11.4 | 12.0 | | |
| 13827 | 14.5 | 13.3 | 13.7 | 13.9 | 14.6 | 15.2 | 13.6 | 13.5 | MM 2 | 12.7 | 14.1 | 12.7 | 13.1 | 12.6 | 13.6 | 13.5 | | |
| 13828 | 13.0 | 12.8 | 13.0 | 12.9 | 11.0 | 12.8 | 12.7 | 9.4 | 10.5 | 12.3 | 12.0 | 13.5 | 12.6 | 12.3 | | | | |
| 13829 | 11.8 | 10.3 | 11.8 | 12.0 | 12.2 | 12.6 | 11.5 | 12.7 | 10.7 | 10.9 | 10.6 | 12.1 | 11.1 | | | | | |
| 13830 | 11.6 | 12.1 | 11.1 | 12.5 | 10.4 | 10.4 | 11.9 | MS | 12.2 | 11.7 | 11.1 | 11.1 | 11.1 | 12.1 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 12): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | 1 MG/KG/DAY | | | | | POSTPARTUM DAY 8 | | | | | |
| 13831 | 13.2 | 13.4 | 13.8 | 12.7 | 14.0 | 14.1 | 12.5 | 12.3 | 15.2 | 14.4 | 11.1 | 11.7 | 12.1 | 13.8 | 13.0 | 11.2 | 11.1 | |
| 13832 | 13.8 | 13.2 | 15.2 | 14.6 | 13.5 | 13.0 | 15.1 | 14.3 | 14.7 | 14.4 | 13.1 | 15.7 | 14.3 | 11.7 | | | | |
| 13833 | 12.9 | 13.1 | 14.0 | 12.0 | 12.9 | 11.8 | 11.6 | 12.7 | 13.0 | 13.2 | 12.3 | 10.5 | 11.4 | 13.0 | FM 3 | | | |
| 13834 | 12.9 | 14.5 | 14.5 | 14.2 | 13.6 | 13.1 | 14.1 | 12.5 | 13.6 | 14.1 | 14.7 | 14.0 | 13.7 | | | | | |
| 13835 | 12.6 | 12.7 | 12.9 | 13.4 | 13.2 | 12.5 | 11.6 | 12.8 | 12.8 | 11.7 | 13.7 | 10.8 | 11.4 | 12.8 | 12.2 | 12.7 | FD 3 | FD 2 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | | | | |
| 13837 | 13.4 | 11.8 | 13.1 | 12.2 | 12.6 | 11.8 | 10.7 | 12.0 | 10.9 | 13.1 | 11.9 | FS | | | | | | |
| 13838 | 14.8 | 11.9 | 13.0 | 13.6 | 12.8 | 13.2 | 13.9 | 12.5 | 12.6 | 12.4 | 11.8 | 7.0 | 12.0 | 12.1 | 11.8 | 13.0 | 11.1 | FD 4 |
| 13839 | 13.9 | 16.2 | 16.4 | 15.0 | 15.7 | 15.9 | 14.7 | 15.4 | 14.4 | 12.0 | 15.5 | 13.9 | | | | | | |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13841 | 12.7 | 13.7 | 14.1 | 11.8 | 11.4 | 10.7 | 12.4 | 13.2 | 13.1 | 13.0 | FD | UU | | | | | | |
| 13842 | 14.1 | 12.6 | 12.0 | 14.3 | 11.7 | MD 7 | 12.9 | 13.3 | 11.1 | 12.1 | 10.5 | 12.4 | 12.2 | | | | | |
| 13843 | 11.1 | 11.7 | 10.4 | 11.0 | 11.9 | 9.4 | 12.0 | 10.3 | 8.7 | 10.0 | | | | | | | | |
| 13844 | 13.8 | 10.9 | 12.3 | 10.5 | 10.7 | 12.3 | 12.2 | 10.1 | 11.5 | 9.7 | 10.2 | 9.6 | 9.7 | 12.4 | 11.3 | 8.6 | FD 8 | |
| 13845 | 14.0 | 14.5 | 11.9 | 13.9 | 13.1 | 14.6 | 14.5 | 14.4 | 14.3 | 14.6 | 14.3 | 13.0 | | | | | | |
| 13846 | 12.4 | 13.2 | 12.3 | 12.1 | 13.3 | 11.9 | 13.3 | 13.3 | 12.7 | 12.5 | 11.2 | 11.5 | 12.0 | FM 2 | | | | |
| 13847 | 16.1 | 16.0 | 15.0 | MS | MS | MS | MS | 16.1 | 15.5 | 15.9 | 14.0 | 14.7 | FS | FS | FS | | | |
| 13848 | 14.7 | 14.8 | 13.4 | 14.0 | 12.8 | 15.0 | 13.1 | 12.2 | 13.7 | 12.9 | 14.0 | 13.5 | 12.5 | 13.6 | 13.4 | 13.6 | | |
| 13849 | 12.4 | 11.6 | 12.0 | 11.2 | 12.2 | 9.6 | 12.3 | 12.6 | 10.1 | 11.0 | 11.0 | 11.9 | 11.2 | 10.5 | 11.5 | 10.1 | | |
| 13850 | 12.4 | 11.8 | 12.1 | 11.7 | 11.8 | 12.0 | 10.8 | 11.1 | 11.0 | 11.9 | 9.6 | 12.0 | FS | | | | | |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13852 | 13.8 | 13.6 | 13.6 | 13.2 | 13.2 | 14.7 | 12.2 | 12.4 | 12.9 | 13.5 | 14.1 | 13.8 | | | | | | |
| 13853 | 12.5 | 11.3 | 10.8 | 10.6 | 10.8 | 11.5 | 11.2 | 9.9 | 9.7 | 12.4 | 10.1 | 10.6 | 10.3 | 9.9 | 10.5 | 11.7 | 12.2 | |
| 13854 | 13.5 | 14.4 | 13.2 | 14.7 | 13.5 | 13.5 | 13.2 | 13.3 | 11.3 | 14.8 | 12.8 | 13.5 | 12.9 | 10.5 | 12.3 | 14.2 | 12.0 | |
| 13855 | 14.9 | 14.6 | 15.6 | 12.1 | 14.0 | 14.5 | 14.8 | 14.9 | 13.7 | 15.8 | 15.2 | 14.5 | 12.7 | 13.9 | FD 5 | FD 1 | | |
| 13856 | 12.8 | 13.1 | 14.6 | 12.5 | 14.6 | 12.7 | 13.3 | 12.3 | 12.7 | 10.2 | 12.4 | 13.8 | 10.5 | 12.4 | 10.7 | 12.5 | | |
| 13857 | 13.9 | 15.1 | 14.8 | 15.7 | 13.3 | 13.9 | 13.6 | 14.4 | 14.1 | 15.4 | 16.3 | 15.6 | 14.0 | 13.7 | FS | | | |
| 13858 | 10.2 | 11.7 | 10.4 | 11.0 | 9.5 | 11.7 | 11.1 | 13.4 | 11.2 | 11.2 | 12.3 | 11.1 | 10.5 | 10.9 | 11.0 | 11.8 | 10.8 | |
| 13859 | 13.3 | 13.2 | 12.6 | 11.6 | 12.4 | 12.7 | 11.7 | 12.7 | 12.1 | 9.6 | 12.6 | 12.2 | 9.6 | 13.3 | 12.7 | | | |
| 13860 | 12.3 | 12.0 | 12.0 | 11.9 | 11.9 | 12.3 | 12.2 | 11.1 | 11.7 | 13.2 | 11.1 | 12.6 | 12.0 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 13): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | | 3 MG/KG/DAY | | | | | | | POSTPARTUM DAY 8 | | | |
| 13861 | 15.3 | 12.1 | 12.2 | 15.7 | 14.0 | 15.4 | 14.4 | 14.8 | 15.2 | 10.6 | | | | | | | | |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | | | | |
| 13863 | 14.5 | 12.8 | 13.7 | 14.2 | 14.0 | 13.4 | 13.3 | 14.0 | 13.8 | 14.6 | 12.0 | 13.4 | 12.7 | 14.7 | 13.8 | FM 3 | | |
| 13864 | 16.8 | 19.8 | 17.3 | 19.4 | 19.3 | 17.7 | FS | | | | | | | | | | | |
| 13865 | 9.5 | 11.8 | 11.8 | 12.4 | 12.2 | 12.3 | 10.6 | MD 1 | 11.7 | 10.9 | 12.5 | 13.0 | 11.9 | 11.7 | 9.6 | 13.0 | 10.5 | |
| 13866 | 9.7 | 10.6 | 9.9 | 12.7 | 10.8 | 11.7 | 10.0 | 11.3 | 11.1 | 11.9 | 10.6 | 10.8 | 8.8 | 9.2 | 11.1 | 11.2 | 9.3 | FD 8 |
| 13867 | 11.1 | 10.7 | 10.1 | 8.0 | 9.4 | 9.1 | 9.0 | MD 7 | MD 6 | MS | 10.4 | 9.9 | 9.9 | 9.3 | 8.7 | FD 6 | | |
| 13868 | 13.8 | 14.3 | 13.8 | 14.6 | 11.9 | 12.3 | 14.0 | 13.4 | 12.5 | 13.3 | 12.1 | 13.1 | 12.9 | 12.8 | 12.9 | 12.2 | | |
| 13869 | 10.4 | 11.1 | 11.8 | 11.1 | 11.0 | 9.8 | 10.7 | 10.2 | 10.8 | 10.8 | 9.8 | 10.8 | 11.3 | 10.6 | 10.7 | FD 4 | | |
| 13870 | 13.3 | 13.0 | 14.6 | 12.4 | 15.1 | 14.5 | 11.5 | 10.6 | | | | | | | | | | |
| 13871 | 13.1 | 11.4 | 12.2 | 11.9 | MD 3 | 12.0 | 12.3 | 11.5 | 11.1 | 11.9 | 12.0 | 12.0 | 11.7 | FM 7 | FD 4 | | | |
| 13872 | 10.6 | 10.0 | 12.4 | 11.1 | 11.5 | 11.6 | 11.2 | 11.1 | 11.6 | 12.6 | 9.1 | 10.7 | 10.6 | 11.2 | 11.3 | 11.1 | 8.7 | |
| 13873 | 13.3 | 11.5 | 13.7 | 9.9 | 13.5 | 15.5 | 13.9 | 8.8 | 11.3 | 12.3 | 13.5 | 15.1 | 12.8 | 13.1 | 13.6 | 13.5 | FM 4 | |
| 13874 | 16.6 | 17.5 | 17.5 | 16.3 | 18.0 | 15.8 | 14.8 | 11.9 | 15.9 | 15.5 | 13.4 | 15.7 | 15.4 | 14.3 | 14.6 | 14.8 | FD 2 | |
| 13875 | 12.7 | 12.3 | 14.0 | 14.4 | 12.6 | 12.7 | 12.2 | 8.9 | 13.0 | 13.7 | 11.0 | 14.1 | 11.2 | 13.9 | 11.8 | 11.0 | | |
| 13876 | 15.2 | 15.0 | 15.5 | 15.3 | 15.9 | 16.4 | 16.4 | 14.7 | 14.7 | 13.8 | 16.4 | 15.5 | 14.8 | FS | FD 1 | | | |
| 13877 | 12.5 | 12.9 | 14.4 | 15.3 | 12.9 | 14.1 | 12.7 | 13.1 | 11.6 | 10.7 | 10.8 | 12.5 | 13.0 | FS | | | | |
| 13878 | 14.1 | 15.6 | 16.2 | 15.4 | 15.0 | 16.0 | 13.7 | 16.4 | 15.0 | | | | | | | | | |
| 13879 | 16.4 | 18.0 | 13.3 | 16.1 | 15.3 | 15.3 | 16.2 | 15.6 | 16.1 | 15.3 | 16.8 | | | | | | | |
| 13880 | 16.0 | 16.6 | 16.3 | 16.2 | 16.2 | 15.7 | 13.0 | 15.1 | 14.3 | 16.0 | 15.0 | 15.2 | 14.9 | | | | | |
| 13881 | 15.8 | 15.8 | 13.0 | 16.7 | 14.7 | 16.5 | 15.3 | 14.9 | 14.4 | 13.3 | 14.7 | | | | | | | |
| 13882 | 14.3 | 14.4 | 14.4 | 15.1 | 15.1 | 14.8 | 15.1 | 12.7 | 14.9 | 13.0 | 11.8 | 15.9 | 15.1 | 12.1 | 10.7 | FD 3 | | |
| 13883 | 14.6 | 15.9 | 14.0 | 14.2 | 12.3 | 14.5 | 16.4 | 14.4 | 12.9 | 15.6 | 16.0 | 16.1 | 14.8 | 14.1 | FD 1 | | | |
| 13884 | 8.6 | 12.7 | 11.1 | 12.8 | 12.5 | 14.3 | 12.7 | 12.3 | 12.6 | 11.1 | 6.9 | | | | | | | |
| 13885 | 19.4 | 18.7 | 18.5 | | | | | | | | | | | | | | | |
| 13886 | 14.0 | 13.8 | 13.7 | 14.7 | 13.9 | 13.9 | 13.4 | 13.2 | 14.4 | 14.1 | 14.2 | 11.1 | | | | | | |
| 13887 | 16.9 | 16.0 | 15.5 | 15.3 | 15.6 | 16.0 | 15.7 | 16.9 | 16.3 | 14.3 | 14.6 | | | | | | | |
| 13888 | 10.9 | 11.6 | 11.1 | 10.7 | 11.5 | 10.7 | 10.9 | 10.6 | 10.3 | 10.5 | 11.2 | 10.8 | 10.7 | 10.7 | FS | | | |
| 13889 | 12.3 | 13.4 | 13.2 | 11.3 | 12.5 | 11.5 | 12.5 | 13.3 | 12.1 | 12.7 | 11.6 | 12.0 | 11.1 | 11.7 | 12.5 | 11.8 | | |
| 13890 | 13.6 | 13.4 | 13.5 | 10.9 | 12.7 | 12.9 | 14.0 | 12.3 | 13.2 | 12.5 | 13.1 | 13.8 | 13.2 | 13.6 | 7.4 | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 14): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | | | POSTPARTUM DAY 8 | | | | |
| 13891 | 15.2 | 13.8 | 16.3 | 16.3 | MS | 15.4 | 15.9 | 14.3 | 16.1 | 14.5 | 15.5 | | | | | | | |
| 13892 | 12.8 | 13.1 | 12.3 | 13.9 | 13.0 | 13.7 | 12.2 | 11.7 | 11.9 | 11.1 | 13.6 | 12.7 | 12.0 | 13.9 | 12.5 | FS | | |
| 13893 | 14.5 | 15.5 | 15.4 | 16.5 | 14.3 | 15.1 | 13.0 | 13.9 | 13.2 | 13.1 | 15.7 | 13.3 | 15.0 | 12.5 | 14.5 | | | |
| 13894 | 15.1 | 12.5 | 11.1 | 13.0 | 11.5 | 12.5 | MM 4 | 11.1 | 10.9 | 11.9 | 12.1 | 11.8 | 12.8 | 7.1 | | | | |
| 13895 | 12.8 | 10.2 | 14.6 | 8.3 | 11.7 | 13.7 | 13.9 | 11.3 | 12.4 | 9.2 | 13.9 | 12.3 | 13.4 | 12.1 | 11.9 | | | |
| 13896 | 13.3 | 15.6 | 14.5 | 15.4 | 15.4 | 13.1 | 15.2 | 14.1 | 14.6 | 14.3 | 14.0 | 14.4 | | | | | | |
| 13897 | 15.6 | 14.1 | 14.7 | 14.3 | 14.4 | 12.9 | 13.2 | 13.2 | 13.7 | 15.0 | 14.6 | 15.1 | | | | | | |
| 13898 | 12.1 | 13.7 | 10.3 | 11.8 | 11.8 | 13.4 | 11.0 | 11.8 | 11.8 | 9.9 | 11.0 | 11.6 | 10.1 | 9.8 | 10.7 | 11.4 | FD 3 | |
| 13899 | 13.5 | 14.3 | 13.4 | 13.5 | 13.6 | 12.6 | 13.4 | 12.1 | 12.6 | 12.7 | 12.6 | | | | | | | |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | |
| 13901 | 10.7 | 9.9 | 10.7 | 10.3 | 10.3 | 11.3 | 10.2 | 10.6 | 10.0 | 9.1 | 8.0 | 9.6 | 9.1 | 9.1 | 9.1 | 10.6 | | |
| 13902 | 13.6 | 13.6 | 12.7 | 14.4 | 14.6 | 14.0 | 13.2 | 14.4 | 12.8 | 13.0 | 12.5 | 10.7 | 13.2 | 11.8 | 13.4 | | | |
| 13903 | 15.2 | 16.0 | 14.9 | 12.3 | 15.3 | 11.1 | 12.8 | 15.2 | 15.4 | 14.4 | 15.4 | 14.2 | 14.6 | 16.1 | | | | |
| 13904 | 12.5 | 11.0 | 10.2 | 12.6 | 11.3 | 7.9 | 12.4 | 12.1 | 14.1 | 8.8 | 10.0 | 11.9 | 9.7 | 9.7 | | | | |
| 13905 | 16.1 | 9.8 | 16.8 | 13.3 | 15.5 | 12.5 | 11.6 | 16.5 | 14.2 | 11.2 | 15.1 | 12.8 | 13.8 | 13.3 | 13.2 | 11.3 | | |
| 13906 | 14.3 | 16.4 | 15.0 | 15.8 | 14.0 | MD 3 | MS | MS | 15.8 | 15.2 | 14.6 | 15.0 | 13.3 | 15.6 | 14.4 | FD 8 | | |
| 13907 | 10.8 | 11.8 | 13.6 | 12.2 | 13.4 | 13.1 | 11.8 | 13.4 | 12.2 | 12.1 | 12.2 | 11.8 | 11.6 | 13.3 | 11.0 | 12.7 | | |
| 13908 | 16.4 | 17.0 | 14.5 | 18.2 | | | | | | | | | | | | | | |
| 13909 | 12.9 | 13.1 | 13.5 | 12.5 | 11.9 | 11.7 | 13.2 | 12.8 | 13.2 | 12.7 | 11.5 | 12.7 | 12.7 | 12.3 | | | | |
| 13910 | 15.8 | 15.8 | 15.3 | 15.4 | 13.7 | 13.2 | 14.0 | 14.0 | 14.5 | 14.4 | 15.6 | 16.2 | 15.5 | 14.8 | 15.0 | | | |
| 13911 | 12.3 | 12.7 | 12.2 | 11.8 | 13.2 | 13.4 | 12.7 | 11.9 | 12.1 | 11.6 | 12.1 | 12.3 | | | | | | |
| 13912 | 13.1 | 11.9 | 12.6 | 13.4 | 11.0 | 13.8 | 12.4 | 11.5 | 10.2 | 12.4 | 11.5 | 11.5 | 11.9 | 11.4 | | | | |
| 13913 | 15.0 | 15.7 | 13.7 | 15.6 | 15.6 | 15.3 | 15.1 | 12.5 | 15.2 | 16.3 | 16.3 | 13.1 | 12.6 | | | | | |
| 13914 | 12.2 | 13.1 | 13.0 | 11.3 | 11.8 | 13.2 | 11.4 | 10.1 | 12.3 | 12.6 | 12.5 | 12.5 | 11.4 | 10.0 | 10.9 | 12.3 | 10.7 | FM 3 |
| 13915 | 11.3 | 13.3 | 10.8 | 11.3 | 12.0 | 12.3 | 11.7 | 13.0 | 12.2 | 11.7 | 12.8 | 11.3 | 12.6 | 12.0 | 10.8 | 11.5 | 11.5 | |
| 13916 | 13.5 | 14.4 | 12.0 | 14.6 | 12.9 | 12.1 | 12.9 | 12.5 | 11.9 | 12.1 | 12.5 | 13.0 | 12.1 | 11.1 | 12.6 | 10.8 | | |
| 13917 | 13.4 | 12.9 | 14.7 | 13.2 | 14.6 | 13.1 | 11.4 | | | | | | | | | | | |
| 13918 | 16.7 | 14.5 | 15.0 | 16.1 | 16.1 | 15.1 | 14.5 | 14.4 | 12.8 | 14.0 | 15.9 | 15.1 | 14.4 | 14.9 | | | | |
| 13919 | 11.3 | 12.4 | 12.4 | 11.5 | 11.7 | 12.2 | 11.7 | 11.6 | 11.1 | 9.9 | 8.4 | 9.9 | 11.1 | 11.1 | | | | |
| 13920 | 9.3 | 10.9 | 10.3 | 11.1 | 11.2 | 8.7 | 10.5 | 10.7 | 8.1 | 10.2 | 10.0 | 10.6 | 9.7 | 10.7 | 10.0 | FD 3 | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 15): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 8 | | | |
| 13921 | 13.4 | 8.3 | 12.7 | 8.0 | 13.3 | 13.5 | 12.7 | 12.9 | MM 6 | 12.8 | 12.1 | 10.9 | 12.7 | 5.5 | 6.9 | | | |
| 13922 | 9.7 | 9.4 | 7.2 | 9.5 | MM 2 | MD 1 | MD 1 | FM 2 | FM 2 | | | | | | | | | |
| 13923 | 10.7 | 10.2 | 10.8 | 11.4 | 11.0 | 11.2 | 12.2 | 10.7 | 11.5 | 10.8 | 10.1 | 11.0 | 10.8 | 10.5 | | | | |
| 13924 | 13.6 | 12.6 | 11.0 | 12.8 | 13.0 | 11.3 | 12.6 | 10.4 | 12.4 | 12.9 | 13.0 | 11.9 | 11.8 | 11.3 | 10.2 | 8.3 | 11.1 | |
| 13925 | 13.2 | 9.7 | 9.0 | 9.4 | 12.9 | 8.3 | 10.9 | 12.2 | 7.8 | 12.5 | 8.1 | 10.3 | 11.8 | | | | | |
| 13926 | 9.2 | 11.3 | 11.3 | 11.2 | 12.1 | 10.0 | 11.4 | 11.9 | MS | 10.4 | 12.2 | 11.0 | 11.0 | 9.3 | 10.7 | | | |
| 13927 | 11.3 | 10.3 | 12.1 | 12.5 | 11.9 | 11.7 | 10.8 | 10.8 | 10.7 | 11.7 | 11.4 | 11.7 | 10.5 | 12.0 | 11.3 | FD 7 | | |
| 13928 | 12.5 | 12.9 | 14.1 | 12.9 | MD 8 | MD 3 | 13.4 | 11.7 | 10.5 | 11.6 | 11.7 | 12.6 | 10.7 | 11.5 | 12.0 | 9.8 | | |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13930 | 9.8 | 10.8 | 10.6 | 9.7 | 9.8 | 10.0 | 7.2 | 10.4 | MD 8 | 8.5 | 9.0 | 8.7 | 9.0 | 8.4 | 9.9 | 9.9 | FD 6 | FM 5 |
| 13931 | 7.2 | 6.9 | 5.3 | 7.7 | 7.5 | 8.0 | MD 8 | MD 6 | 6.4 | 6.8 | 6.9 | 7.0 | FD 6 | FD 6 | FM 2 | | | |
| 13932 | 12.9 | 12.4 | 11.6 | 13.8 | 12.2 | 12.1 | 12.1 | 12.6 | 11.8 | 11.4 | 12.0 | 11.8 | 11.2 | 10.8 | | | | |
| 13933 | 12.0 | 10.7 | 12.0 | 13.0 | 12.1 | 12.1 | 12.3 | 12.0 | 12.3 | 11.2 | 10.8 | 11.5 | 10.4 | | | | | |
| 13934 | 7.8 | 8.0 | MM 4 | 9.9 | 10.3 | 7.3 | 11.0 | 8.2 | 11.1 | 10.2 | 8.9 | 10.4 | 8.1 | 11.7 | FM 6 | | | |
| 13935 | 11.7 | 12.0 | 13.4 | 12.3 | 11.6 | 12.8 | 13.3 | 12.9 | 12.0 | 10.5 | 12.5 | 12.4 | 11.7 | 8.7 | 11.5 | | | |
| 13936 | 11.5 | 14.3 | 14.6 | 15.0 | 12.3 | 11.5 | 14.5 | 13.0 | 14.7 | 14.1 | 14.6 | 13.7 | 12.0 | 14.2 | | | | |
| 13937 | 15.4 | 16.2 | 15.4 | 15.3 | 14.7 | 14.7 | 15.5 | 15.2 | 15.1 | 13.5 | 14.5 | 14.1 | 13.5 | 14.0 | 13.9 | | | |
| 13938 | 11.1 | 10.3 | 9.6 | 9.5 | 10.1 | 9.0 | 11.0 | MD 2 | 9.8 | 9.8 | 10.5 | 11.2 | 9.7 | 10.1 | 10.1 | 10.9 | | |
| 13939 | 13.3 | 13.7 | 13.7 | 13.4 | 12.1 | 12.3 | 12.6 | 12.7 | 12.9 | 12.4 | 12.4 | 11.0 | 13.5 | 12.2 | FS | | | |
| 13940 | 13.3 | 11.8 | 12.4 | 12.3 | 11.6 | 12.7 | 10.5 | 12.5 | 11.6 | 12.0 | 10.1 | 12.6 | 10.5 | 11.2 | 10.6 | | | |
| 13941 | 14.1 | 12.1 | 12.3 | 13.7 | 14.3 | 14.1 | 14.5 | 14.1 | 13.4 | 13.5 | 13.5 | 11.6 | 13.3 | FS | | | | |
| 13942 | 12.0 | 14.1 | 14.8 | 14.0 | 13.1 | 9.0 | 14.3 | 13.3 | 14.5 | 14.5 | 13.4 | 12.4 | 11.8 | 13.9 | 13.6 | 13.1 | | |
| 13943 | 17.4 | 20.0 | 18.0 | 17.4 | 15.2 | 13.7 | 17.8 | | | | | | | | | | | |
| 13944 | 10.3 | 11.1 | 9.1 | MM 5 | 11.3 | 9.2 | 11.0 | 6.0 | 9.4 | 7.7 | 9.4 | 9.6 | | | | | | |
| 13945 | 14.3 | 13.9 | 13.4 | 13.5 | 13.6 | 14.3 | 14.1 | 14.4 | 13.6 | 14.7 | 13.4 | 13.5 | 14.4 | 14.1 | | | | |
| 13946 | 14.2 | 15.3 | 14.7 | 16.2 | 14.5 | 14.1 | 13.1 | 14.1 | 14.2 | 13.9 | 14.4 | | | | | | | |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | | | | | | | | | | | | | | |
| 13948 | 13.6 | 11.4 | 13.6 | 13.9 | 12.0 | 11.6 | 13.9 | 11.4 | 10.4 | 11.8 | 12.0 | FM 3 | | | | | | |
| 13949 | 12.6 | 14.5 | 13.0 | 13.4 | 13.6 | 13.0 | 12.7 | 13.0 | 14.0 | 12.5 | 12.9 | 12.7 | 12.2 | | | | | |
| 13950 | 13.3 | 13.0 | 14.8 | 12.9 | 14.3 | 12.4 | MS | 13.0 | 14.8 | 12.4 | 12.9 | FD 2 | FS | FS | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 16): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | 0 MG/KG/DAY | | | | | | POSTPARTUM DAY 15 | | | | |
| 13801 | 28.6 | 30.0 | 29.2 | 29.0 | 27.6 | 30.3 | 29.1 | 28.0 | 28.6 | | | | | | | | | |
| 13802 | 31.6 | 30.8 | 31.4 | 29.8 | 31.4 | 33.1 | 30.6 | 28.1 | 31.0 | 27.7 | 32.3 | 29.0 | 29.3 | 31.3 | | | | |
| 13803 | 27.0 | 23.0 | 23.6 | 21.3 | 21.1 | 23.1 | 22.6 | 24.4 | 23.2 | FM 7 | 21.4 | 22.8 | 23.2 | 24.8 | 21.9 | 22.8 | | |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | | | | |
| 13805 | 28.3 | 29.4 | 28.5 | 27.5 | 28.9 | 29.9 | 26.8 | 26.0 | 29.6 | 25.5 | 27.8 | 25.0 | 24.5 | | | | | |
| 13806 | 26.1 | 23.1 | 23.3 | 25.3 | 24.3 | MM 3 | 23.6 | 22.8 | 27.1 | 25.4 | 25.6 | 23.9 | 24.6 | 25.2 | 23.6 | 24.7 | 23.9 | |
| 13807 | 24.7 | 24.3 | 24.3 | 25.1 | 22.8 | 22.4 | 23.2 | 17.7 | 25.2 | 23.1 | 23.2 | 23.1 | 25.3 | 21.8 | 22.1 | 23.3 | 20.4 | |
| 13808 | 30.5 | 30.6 | 29.2 | 27.4 | 31.1 | 29.3 | MS | 30.6 | 29.2 | 30.9 | 29.1 | 28.0 | 27.9 | | | | | |
| 13809 | 27.8 | 29.2 | 26.1 | 30.0 | 29.0 | 28.2 | 27.2 | 28.7 | 29.1 | 26.3 | 25.0 | 27.8 | 27.0 | | | | | |
| 13810 | 31.7 | 29.6 | 32.1 | 31.2 | MD 3 | MS | 29.2 | 31.8 | 29.1 | 29.9 | 31.3 | 27.1 | 29.5 | 30.9 | FD 1 | | | |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13812 | 28.2 | 28.6 | 26.0 | 26.6 | 26.7 | 27.8 | 27.7 | 27.1 | 26.2 | 25.5 | 25.7 | 26.9 | 26.9 | 26.9 | | | | |
| 13813 | 33.9 | 31.4 | 32.7 | 33.2 | 29.7 | 33.0 | 30.9 | 30.5 | 30.7 | 29.0 | 32.6 | 31.2 | UU | | | | | |
| 13814 | 22.6 | 23.8 | 23.3 | 25.3 | 24.6 | 24.9 | 21.9 | 23.1 | 18.3 | 22.5 | 20.7 | 22.5 | 22.4 | 18.8 | 23.3 | 20.4 | FM 2 | |
| 13815 | 21.6 | 20.6 | 21.3 | 20.8 | 21.9 | 19.8 | 20.5 | 21.6 | 19.9 | 22.4 | 22.6 | 19.1 | 19.5 | 16.5 | 21.5 | | | |
| 13816 | 21.6 | 20.6 | 19.2 | 19.5 | 19.2 | 15.5 | 16.3 | 19.6 | 16.2 | 20.0 | 16.8 | 15.6 | 20.0 | 19.6 | 14.7 | UU | | |
| 13817 | 25.5 | 23.3 | 23.9 | 22.0 | 24.9 | 24.1 | 24.0 | 23.6 | 21.8 | 22.5 | 23.1 | 23.1 | 23.4 | 22.5 | FD 2 | | | |
| 13818 | 20.8 | 17.6 | 20.4 | 18.8 | 20.6 | 16.5 | 15.5 | 17.0 | 16.6 | 17.8 | 17.8 | 16.1 | 14.8 | 18.4 | FM 4 | FD 2 | | |
| 13819 | 22.1 | 22.3 | 20.4 | 19.1 | MD 1 | 18.1 | 18.6 | 20.5 | 20.3 | 19.3 | 20.1 | 20.8 | 19.2 | | | | | |
| 13820 | 26.9 | 26.1 | 26.3 | 28.2 | 26.8 | 24.9 | 24.8 | 25.5 | 24.9 | 22.4 | 26.7 | 22.0 | 24.9 | 26.5 | | | | |
| 13821 | 28.7 | 26.0 | 27.5 | 22.6 | 30.9 | 24.5 | 24.4 | 26.1 | 23.1 | 23.8 | 27.1 | 22.9 | 28.3 | 25.6 | 23.9 | 25.3 | 25.4 | |
| 13822 | MX 8 | MX 8 | MX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | | | | | | |
| 13823 | 32.3 | 32.4 | 34.3 | 33.6 | 32.3 | 34.6 | 31.8 | 32.9 | 33.0 | | | | | | | | | |
| 13824 | 25.8 | 27.0 | 28.9 | 20.3 | 25.3 | 26.2 | 23.8 | 28.7 | 25.1 | 26.2 | 23.3 | 26.8 | 21.8 | 25.3 | 24.6 | 24.2 | | |
| 13825 | 24.8 | 24.7 | 23.8 | 24.1 | 22.6 | 24.5 | 25.2 | 20.8 | 24.8 | 24.3 | 21.7 | 24.8 | 22.7 | 25.8 | 23.3 | | | |
| 13826 | 22.3 | 21.5 | 20.5 | 16.4 | 21.9 | 19.3 | 23.2 | 14.9 | 16.0 | 16.6 | 16.9 | 18.9 | 18.7 | 20.1 | 17.9 | 20.6 | | |
| 13827 | 27.9 | 23.9 | 25.7 | 27.4 | 23.3 | 26.2 | 27.1 | 28.2 | MM 2 | 25.8 | 25.8 | 25.6 | 24.9 | 23.9 | 25.4 | 25.1 | | |
| 13828 | 25.6 | 21.8 | 25.3 | 28.0 | 26.5 | 20.0 | 24.4 | 26.0 | 22.3 | 24.6 | 27.3 | 24.4 | 26.0 | 25.5 | | | | |
| 13829 | 25.2 | 25.0 | 23.3 | 23.8 | 23.0 | 23.6 | 24.3 | 22.4 | 20.5 | 23.3 | 20.0 | 18.6 | 24.8 | | | | | |
| 13830 | 23.1 | 23.2 | 22.7 | 24.2 | 21.6 | 22.8 | 21.4 | MS | 23.0 | 24.3 | 22.8 | 21.7 | 22.6 | 21.7 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 17): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | 1 MG/KG/DAY | | | | | | POSTPARTUM DAY 15 | | | | |
| 13831 | 26.3 | 25.4 | 23.0 | 27.1 | 24.8 | 26.5 | 26.2 | 26.4 | 26.6 | 26.1 | 22.0 | 23.4 | 23.1 | 22.6 | 24.6 | 21.9 | 27.7 | |
| 13832 | 25.9 | 24.1 | 26.0 | 26.4 | 22.6 | 25.8 | 24.9 | 27.2 | 24.0 | 27.0 | 27.0 | 23.5 | 23.1 | 22.0 | | | | |
| 13833 | 26.5 | 25.8 | 25.7 | 25.0 | 26.2 | 27.9 | 25.9 | 26.6 | 24.2 | 25.1 | 22.4 | 26.7 | 24.9 | 24.8 | FM 3 | | | |
| 13834 | 27.6 | 26.4 | 25.6 | 26.9 | 25.8 | 25.5 | 26.1 | 26.6 | 24.6 | 26.8 | 24.6 | 26.3 | 24.5 | | | | | |
| 13835 | 24.6 | 24.0 | 27.4 | 26.4 | 26.2 | 24.1 | 25.6 | 23.5 | 25.7 | 24.7 | 20.2 | 25.4 | 22.5 | 22.0 | 26.2 | 22.0 | FD 3 | FD 2 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | | | | |
| 13837 | 27.2 | 25.7 | 27.3 | 25.1 | 26.6 | 27.7 | 25.8 | 24.0 | 24.2 | 25.6 | 25.2 | FS | | | | | | |
| 13838 | 25.4 | 24.3 | 24.8 | 23.8 | 28.1 | 25.7 | 25.1 | 24.9 | 24.8 | 23.7 | 24.3 | 13.9 | 25.9 | 24.2 | 24.6 | 23.2 | 23.9 | FD 4 |
| 13839 | 24.5 | 26.4 | 24.7 | 24.3 | 24.2 | 24.2 | 23.6 | 23.2 | 24.8 | 17.4 | 23.6 | 25.0 | | | | | | |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13841 | 23.9 | 26.1 | 20.1 | 24.7 | 23.5 | 25.1 | 17.5 | 25.6 | 20.8 | 23.4 | FD | UU | | | | | | |
| 13842 | 25.8 | 23.8 | 29.6 | 26.5 | 29.5 | MD 7 | 23.0 | 22.6 | 24.4 | 24.4 | 25.0 | 27.3 | 25.9 | | | | | |
| 13843 | 24.4 | 22.7 | 23.7 | 24.0 | 23.9 | 22.1 | 25.0 | 22.0 | 21.3 | 23.1 | | | | | | | | |
| 13844 | 19.6 | 25.6 | 22.9 | 20.2 | 22.0 | 20.0 | 21.6 | 20.4 | 19.5 | 18.9 | 22.0 | 19.7 | 17.1 | 22.7 | 18.3 | 17.6 | FD 8 | |
| 13845 | 29.6 | 27.5 | 30.0 | 27.9 | 28.7 | 22.7 | 28.3 | 28.6 | 30.1 | 28.8 | 27.3 | 29.3 | | | | | | |
| 13846 | 23.4 | 22.8 | 23.9 | 23.4 | 25.2 | 24.1 | 20.7 | 23.1 | 21.3 | 22.2 | 20.5 | 23.1 | 23.0 | FM 2 | | | | |
| 13847 | 29.9 | 32.2 | 33.0 | MS | MS | MS | MS | 32.6 | 31.6 | 29.7 | 32.1 | 31.7 | FS | FS | FS | | | |
| 13848 | 24.1 | 24.0 | 25.6 | 24.9 | 29.4 | 27.8 | 25.6 | 28.8 | 24.3 | 25.7 | 26.2 | 25.7 | 24.4 | 23.3 | 27.9 | 25.8 | | |
| 13849 | 22.6 | 20.8 | 20.2 | 21.5 | 20.5 | 21.2 | 19.7 | 22.6 | 22.5 | 21.7 | 20.4 | 21.0 | 22.1 | 19.0 | 21.1 | 19.2 | | |
| 13850 | 24.9 | 25.9 | 25.1 | 25.2 | 24.9 | 25.0 | 23.6 | 24.2 | 22.8 | 24.9 | 25.5 | 23.5 | FS | | | | | |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13852 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | FX11 | FX11 | FX11 | FX11 | | | | | | |
| 13853 | 21.1 | 22.6 | 24.5 | 24.5 | 18.9 | 23.3 | 21.2 | 19.9 | 21.4 | 21.5 | 24.1 | 19.1 | 19.8 | 22.4 | 19.0 | 18.7 | 18.7 | |
| 13854 | 21.3 | 19.6 | 21.0 | 20.7 | 19.2 | 20.9 | 18.6 | 17.9 | 22.2 | 19.6 | 18.9 | 16.5 | 18.8 | 17.5 | 18.7 | 18.5 | 19.0 | |
| 13855 | 29.2 | 30.8 | 29.1 | 28.8 | 28.6 | 27.3 | 28.5 | 27.6 | 25.6 | 30.4 | 26.1 | 27.0 | 29.9 | 26.5 | FD 5 | FD 1 | | |
| 13856 | 22.9 | 20.1 | 23.0 | 21.0 | 20.6 | 19.4 | 20.5 | 21.4 | 19.9 | 16.5 | 20.2 | 22.5 | 19.4 | 15.5 | 20.2 | 17.3 | | |
| 13857 | 27.4 | 27.3 | 26.7 | 28.2 | 26.5 | 24.4 | 27.4 | 25.3 | 26.1 | 27.7 | 26.6 | 29.6 | 26.7 | 26.2 | FS | | | |
| 13858 | 25.5 | 21.7 | 24.5 | 23.6 | 24.9 | 24.2 | 21.8 | 19.8 | 21.2 | 21.6 | 23.3 | 19.1 | 22.9 | 23.9 | 21.3 | 24.7 | 23.7 | |
| 13859 | 22.0 | 23.6 | 23.7 | 22.4 | 22.3 | 22.2 | 19.5 | 21.9 | 22.2 | 23.0 | 22.9 | 22.0 | 22.8 | 22.6 | FD11 | | | |
| 13860 | 24.2 | 24.0 | 22.2 | 24.8 | 23.5 | 23.7 | 22.7 | 22.9 | 22.3 | 22.2 | 24.1 | 21.0 | 23.9 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 18): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | | 3 MG/KG/DAY | | | | | | | POSTPARTUM DAY 15 | | | |
| 13861 | 28.3 | 28.0 | 24.8 | 26.9 | 25.6 | 24.5 | 28.6 | 28.1 | 28.0 | 24.0 | | | | | | | | |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | | | | |
| 13863 | 21.7 | 22.6 | 22.2 | 21.7 | 21.6 | 19.8 | 22.1 | 22.5 | 23.1 | 20.6 | 22.5 | 22.1 | 23.6 | 22.3 | 21.7 | FM 3 | | |
| 13864 | 40.5 | 40.3 | 36.3 | 38.2 | 38.1 | 38.2 | FS | | | | | | | | | | | |
| 13865 | 18.1 | 20.2 | 17.2 | 19.6 | 18.9 | 19.5 | 19.7 | MD 1 | 17.5 | 18.9 | 20.0 | 15.3 | 18.8 | 18.8 | 19.8 | 20.2 | 17.7 | |
| 13866 | 23.2 | 26.8 | 21.0 | 24.7 | 21.5 | 14.4 | 23.9 | MD15 | 25.9 | 23.3 | 19.1 | 10.4 | 19.7 | 22.7 | 26.7 | 24.5 | 20.3 | FD 8 |
| 13867 | 21.7 | 20.2 | 21.8 | 22.2 | 17.9 | 20.2 | 21.3 | MD 7 | MD 6 | MS | 21.7 | 21.1 | 20.0 | 20.8 | 22.3 | FD 6 | | |
| 13868 | 27.2 | 27.3 | 25.1 | 27.7 | 29.5 | 20.5 | 24.1 | 26.4 | 26.0 | 26.4 | 26.4 | 27.2 | 24.7 | 26.3 | 23.1 | 26.9 | | |
| 13869 | 21.4 | 20.2 | 19.6 | 22.1 | 19.5 | 21.1 | 21.3 | 20.8 | 21.0 | 15.2 | 15.4 | 18.6 | 15.1 | 18.6 | 19.5 | FD 4 | | |
| 13870 | 29.1 | 26.7 | 25.4 | 30.8 | 25.7 | 31.1 | 30.3 | 24.4 | | | | | | | | | | |
| 13871 | 19.1 | 18.5 | 21.0 | 20.2 | MD 3 | 20.2 | 18.8 | 18.4 | 20.3 | 20.3 | 20.1 | 17.0 | 17.0 | FM 7 | FD 4 | | | |
| 13872 | 22.9 | 22.4 | 20.3 | 20.3 | 22.6 | 23.2 | 20.1 | 21.2 | 19.5 | 20.1 | 19.5 | 22.6 | 21.2 | 19.9 | 21.9 | 19.3 | 17.2 | |
| 13873 | 19.9 | 23.9 | 29.6 | 20.1 | 25.8 | 26.3 | 24.4 | 16.3 | 20.6 | 26.0 | 24.1 | 25.2 | 24.9 | 24.5 | 26.2 | 24.7 | FM 4 | |
| 13874 | 31.8 | 31.8 | 32.2 | 32.3 | 32.4 | 25.9 | 29.9 | 29.0 | 28.2 | 27.1 | 26.7 | 28.6 | 30.3 | 27.8 | 28.0 | 28.9 | FD 2 | |
| 13875 | 24.4 | 24.4 | 25.9 | 27.5 | 28.9 | 18.9 | 28.9 | 24.4 | 22.5 | 22.4 | 26.9 | 19.8 | 26.5 | 22.3 | 25.6 | 25.7 | | |
| 13876 | 31.2 | 31.8 | 30.8 | 28.7 | 29.2 | 28.8 | 30.1 | 29.7 | 29.7 | 28.8 | 25.5 | 29.9 | 30.4 | FS | FD 1 | | | |
| 13877 | 29.8 | 29.9 | 29.8 | 32.5 | 30.0 | 29.1 | 28.9 | 27.3 | 28.0 | 27.3 | 26.6 | 26.2 | 26.7 | FS | | | | |
| 13878 | 30.4 | 32.0 | 33.8 | 32.8 | 31.7 | 32.6 | 30.0 | 31.7 | 31.8 | | | | | | | | | |
| 13879 | 32.6 | 32.5 | 32.0 | 31.6 | 28.8 | 33.0 | 31.0 | 31.2 | 31.4 | 33.1 | 29.3 | | | | | | | |
| 13880 | 30.7 | 29.8 | 32.0 | 29.7 | 30.2 | 32.4 | 28.0 | 24.8 | 28.4 | 30.0 | 29.2 | 31.3 | 30.1 | | | | | |
| 13881 | 29.8 | 31.1 | 30.1 | 28.6 | 27.9 | 28.5 | 28.4 | 29.5 | 28.2 | 30.8 | 29.6 | | | | | | | |
| 13882 | 27.8 | 27.5 | 25.1 | 27.2 | 25.9 | 29.4 | 24.6 | 28.0 | 28.3 | 28.7 | 22.8 | 23.7 | 30.2 | 25.0 | 29.1 | FD 3 | | |
| 13883 | 28.1 | 23.6 | 30.6 | 24.7 | 28.3 | 29.6 | 25.2 | 26.5 | 26.2 | 30.5 | 29.2 | 29.4 | 27.4 | 23.4 | FD 1 | | | |
| 13884 | 32.3 | 29.1 | 30.8 | 26.1 | 23.1 | 28.0 | 30.2 | 27.5 | 28.5 | 28.5 | 17.2 | | | | | | | |
| 13885 | 33.1 | 34.6 | 32.0 | | | | | | | | | | | | | | | |
| 13886 | 25.5 | 27.5 | 25.7 | 26.0 | 25.2 | 25.4 | 25.4 | 24.7 | 25.3 | 21.9 | 25.3 | 25.0 | | | | | | |
| 13887 | 31.4 | 31.7 | 31.8 | 31.2 | 34.0 | 33.8 | 32.6 | 31.5 | 29.3 | 32.3 | 29.0 | | | | | | | |
| 13888 | 25.3 | 24.9 | 22.0 | 21.7 | 23.8 | 21.7 | 21.4 | 22.1 | 24.0 | 24.1 | 19.8 | 22.9 | 20.5 | 23.8 | FS | | | |
| 13889 | 25.8 | 25.7 | 24.8 | 24.9 | 25.8 | 28.7 | 27.0 | 27.7 | 26.8 | 25.6 | 24.9 | 25.1 | 26.8 | 22.7 | 24.6 | 24.3 | | |
| 13890 | 26.9 | 25.6 | 25.4 | 24.3 | 26.5 | 12.8 | 22.4 | 24.0 | 27.7 | 26.8 | 25.6 | 25.6 | 27.0 | 26.6 | 26.6 | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 19): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | | | | POSTPARTUM DAY 15 | | | |
| 13891 | 31.0 | 32.3 | 30.0 | 28.7 | MS | 29.3 | 29.7 | 29.0 | 28.0 | 30.2 | 28.7 | | | | | | | |
| 13892 | 27.8 | 26.1 | 24.0 | 26.8 | 23.0 | 24.6 | 25.3 | 23.6 | 24.4 | 24.0 | 25.0 | 23.0 | 25.8 | 25.4 | 25.0 | FS | | |
| 13893 | 27.5 | 26.5 | 28.6 | 25.3 | 29.1 | 25.7 | 25.9 | 27.0 | 24.4 | 23.3 | 27.8 | 23.7 | 26.3 | 24.3 | 27.6 | | | |
| 13894 | 26.3 | 26.1 | 24.0 | 25.0 | 28.6 | 24.0 | MM 4 | 23.8 | 24.3 | 24.3 | 25.1 | 17.6 | 23.3 | 23.4 | | | | |
| 13895 | 28.6 | 28.3 | 12.7 | 22.4 | 28.2 | 28.6 | 24.1 | 25.4 | 19.2 | 28.0 | 28.3 | 26.7 | 25.7 | 26.2 | 25.4 | | | |
| 13896 | 27.9 | 23.9 | 25.8 | 27.5 | 27.5 | 23.6 | 24.4 | 25.5 | 25.6 | 26.0 | 21.2 | 26.9 | | | | | | |
| 13897 | 30.2 | 30.8 | 27.9 | 30.0 | 32.2 | 28.0 | 26.9 | 30.5 | 29.0 | 27.1 | 27.8 | 28.6 | | | | | | |
| 13898 | 22.1 | 18.2 | 21.6 | 25.3 | 21.1 | 23.5 | 24.4 | 19.2 | 22.6 | 20.2 | 20.8 | 21.6 | 21.1 | 19.1 | 18.4 | 23.0 | FD 3 | |
| 13899 | 22.7 | 22.4 | 21.8 | 22.6 | 20.8 | 20.0 | 19.1 | 19.3 | 20.4 | 19.9 | 21.9 | | | | | | | |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | |
| 13901 | 21.9 | 23.1 | 20.0 | 23.8 | 23.1 | 21.9 | 21.7 | 19.4 | 15.6 | 18.8 | 22.6 | 22.6 | 20.3 | 19.0 | 20.0 | FD 7 | | |
| 13902 | 26.9 | 27.8 | 26.6 | 24.9 | 26.1 | 28.6 | 25.7 | 23.7 | 25.4 | 23.4 | 25.6 | 24.5 | 23.8 | 24.4 | 20.3 | | | |
| 13903 | 27.8 | 26.4 | 26.8 | 22.8 | 21.8 | 25.6 | 28.0 | 26.1 | 25.8 | 26.4 | 24.3 | 26.8 | 28.8 | 22.9 | | | | |
| 13904 | 20.8 | 20.2 | 21.5 | 15.2 | 22.1 | 20.4 | 17.8 | 20.7 | 18.2 | 17.2 | 20.3 | 13.6 | 16.7 | 18.5 | | | | |
| 13905 | 23.9 | 28.2 | 27.5 | 27.1 | 19.7 | 21.7 | 23.7 | 23.0 | 26.2 | 23.6 | 21.4 | 22.5 | 22.7 | 25.2 | 27.0 | 25.9 | | |
| 13906 | 32.2 | 31.2 | 30.1 | 28.4 | 30.6 | MD 3 | MS | MS | 27.3 | 29.8 | 30.9 | 29.9 | 30.4 | 31.6 | 32.2 | FD 8 | | |
| 13907 | 18.7 | 17.7 | 18.0 | 16.0 | 20.7 | 18.3 | 19.5 | 18.1 | 19.1 | 20.2 | 17.9 | 19.0 | 16.9 | 18.6 | 17.0 | 19.9 | | |
| 13908 | 35.1 | 37.5 | 33.1 | 38.8 | | | | | | | | | | | | | | |
| 13909 | 25.0 | 24.7 | 23.3 | 23.1 | 24.9 | 25.2 | 23.3 | 25.1 | 24.1 | 21.6 | 22.7 | 22.7 | 21.8 | 24.8 | | | | |
| 13910 | 23.6 | 20.0 | 23.8 | 22.0 | 22.1 | 21.0 | 22.1 | 24.0 | 24.3 | 25.0 | 22.3 | 24.4 | 22.4 | 22.5 | 24.1 | | | |
| 13911 | 28.9 | 27.7 | 25.6 | 27.3 | 27.0 | 26.0 | 24.2 | 25.7 | 25.4 | 26.5 | 25.5 | 25.0 | | | | | | |
| 13912 | 25.9 | 26.1 | 24.2 | 25.6 | 24.2 | 25.9 | 29.0 | 24.5 | 23.3 | 21.8 | 25.1 | 25.1 | 25.7 | 25.5 | | | | |
| 13913 | 30.7 | 29.3 | 28.4 | 27.7 | 29.9 | 28.3 | 29.6 | 32.2 | 26.0 | 30.8 | 25.9 | 26.5 | 30.0 | | | | | |
| 13914 | 22.1 | 25.2 | 20.1 | 25.1 | 22.5 | 21.8 | 25.7 | 25.5 | 21.8 | 22.2 | 21.9 | 20.2 | 25.8 | 23.8 | 22.8 | 24.3 | 23.2 | FM 3 |
| 13915 | 22.5 | 19.3 | 24.8 | 21.6 | 22.4 | 22.6 | 22.7 | 18.6 | 24.6 | 21.3 | 20.2 | 21.8 | 21.0 | 22.2 | 20.9 | 21.3 | 21.9 | |
| 13916 | 29.3 | 24.7 | 26.3 | 25.4 | 27.5 | 30.4 | 29.5 | 26.0 | 23.7 | 21.2 | 26.1 | 22.1 | 25.6 | 23.4 | 25.8 | 24.9 | | |
| 13917 | 28.2 | 25.8 | 30.2 | 28.2 | 25.8 | 30.0 | 25.1 | | | | | | | | | | | |
| 13918 | 31.9 | 30.3 | 26.5 | 27.2 | 29.2 | 26.4 | 28.4 | 28.4 | 26.9 | 28.0 | 27.3 | 26.7 | 27.2 | 24.3 | | | | |
| 13919 | 22.8 | 24.4 | 24.9 | 23.1 | 23.4 | 25.2 | 22.3 | 20.0 | 18.1 | 24.7 | 18.8 | 22.3 | 23.6 | 24.7 | | | | |
| 13920 | 17.3 | 17.9 | 17.4 | 14.1 | 17.5 | 17.4 | MD 9 | 11.9 | 16.8 | 16.4 | 16.1 | 15.0 | 15.1 | FD 9 | FD 9 | FD 3 | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 20): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 15 | | | | |
| 13921 | 26.3 | 16.4 | 28.0 | 26.7 | 25.6 | 26.4 | 26.9 | 13.7 | MM 6 | 24.7 | 23.8 | 25.6 | 10.0 | 13.1 | 25.5 | | | |
| 13922 | 23.0 | 23.8 | 23.8 | 18.3 | MM 2 | MD 1 | MD 1 | FM 2 | FM 2 | | | | | | | | | |
| 13923 | 21.3 | 20.8 | 21.1 | 21.9 | 20.7 | 21.0 | 20.0 | 19.5 | 20.0 | 20.7 | 19.7 | 20.1 | 19.1 | 17.1 | | | | |
| 13924 | 22.8 | 23.9 | 21.1 | 24.5 | 20.6 | 25.3 | 17.8 | 20.9 | 23.5 | 23.2 | 21.3 | 22.6 | 24.4 | 19.0 | 19.3 | 15.5 | 23.1 | |
| 13925 | 18.3 | 21.1 | 18.8 | 25.3 | 13.9 | 24.5 | 14.7 | 15.2 | 21.0 | 22.5 | 23.2 | 23.7 | 22.4 | | | | | |
| 13926 | 24.9 | 23.9 | 23.8 | 23.8 | 24.1 | 22.3 | 23.8 | 19.9 | MS | 22.9 | 23.5 | 23.1 | 24.6 | 21.1 | 23.0 | | | |
| 13927 | 15.9 | 15.6 | 15.1 | 13.8 | 17.1 | 14.5 | 15.0 | 15.3 | 14.3 | 16.5 | 14.6 | 14.7 | 13.7 | 12.8 | 12.6 | FD 7 | | |
| 13928 | 26.7 | 26.8 | 27.7 | 26.4 | MD 8 | MD 3 | 26.8 | 25.8 | 24.6 | 24.7 | 23.8 | 23.6 | 27.6 | 21.7 | 25.0 | 26.1 | | |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13930 | 20.6 | 19.4 | 20.4 | 13.9 | 19.6 | 20.8 | 19.1 | 20.2 | MD 8 | 19.3 | 19.6 | 16.5 | 19.0 | 19.6 | 18.4 | 19.6 | FD 6 | FM 5 |
| 13931 | 18.2 | 19.9 | 15.9 | 11.9 | 19.8 | 17.2 | MD 8 | MD 6 | 17.2 | 16.7 | 14.9 | 17.5 | FD 6 | FD 6 | FM 2 | | | |
| 13932 | 23.4 | 22.0 | 23.6 | 22.7 | 22.8 | 23.9 | 22.9 | 22.4 | 21.2 | 22.8 | 20.8 | 23.3 | 23.0 | 22.2 | | | | |
| 13933 | 18.2 | 18.5 | 16.1 | 15.4 | 18.0 | 15.5 | 16.7 | 17.6 | 16.3 | 16.8 | 19.3 | 17.7 | 18.1 | | | | | |
| 13934 | 15.4 | MM12 | MM 4 | 24.2 | 20.9 | 23.1 | 25.4 | 15.1 | 21.0 | 14.5 | 13.0 | 18.1 | 20.3 | 24.6 | FM 6 | | | |
| 13935 | 22.0 | 20.7 | 24.1 | 19.7 | 22.1 | 22.8 | 22.6 | 20.2 | 14.9 | 21.8 | 19.4 | 22.5 | 23.0 | 21.8 | 22.1 | | | |
| 13936 | 26.5 | 27.1 | 27.0 | 22.9 | 26.2 | 25.6 | 23.0 | 26.2 | 26.2 | 22.6 | 23.2 | 22.9 | 23.4 | 25.3 | | | | |
| 13937 | 26.8 | 26.6 | 26.2 | 24.9 | 25.3 | 26.0 | 26.9 | 22.9 | 24.5 | 21.8 | 24.7 | 22.7 | 24.0 | 24.9 | 25.8 | | | |
| 13938 | 17.5 | 16.9 | 14.3 | 18.8 | 17.5 | 17.9 | 16.3 | MD 2 | 16.8 | 17.0 | 17.2 | 17.7 | 17.6 | 17.7 | 16.7 | 15.9 | | |
| 13939 | 27.0 | 24.1 | 26.1 | 26.5 | 24.5 | 24.0 | 26.7 | 23.6 | 24.6 | 25.6 | 23.4 | 24.9 | 22.3 | 24.7 | FS | | | |
| 13940 | 22.8 | 23.6 | 25.8 | 22.8 | 21.9 | 23.7 | 23.0 | 21.6 | 21.1 | 19.8 | 22.2 | 22.7 | 18.4 | 20.7 | 22.4 | | | |
| 13941 | 25.7 | 25.7 | 24.2 | 25.8 | 23.4 | 24.0 | 24.9 | 22.9 | 25.4 | 19.9 | 23.5 | 24.2 | 23.4 | FS | | | | |
| 13942 | 23.2 | 22.8 | 26.2 | 28.1 | 25.0 | 24.5 | 25.9 | 26.5 | 25.8 | 20.8 | 16.4 | 23.6 | 22.8 | 27.2 | 20.3 | 23.0 | | |
| 13943 | 37.1 | 35.9 | 36.8 | 40.5 | 36.6 | 31.0 | 34.3 | | | | | | | | | | | |
| 13944 | 20.4 | 24.1 | 22.1 | MM 5 | 21.6 | 24.3 | 20.7 | 24.9 | 20.9 | 16.5 | 21.4 | FM10 | | | | | | |
| 13945 | 25.2 | 25.3 | 25.3 | 26.3 | 26.4 | 25.4 | 25.0 | 25.9 | 26.4 | 24.1 | 25.5 | 24.3 | 25.3 | 27.1 | | | | |
| 13946 | 31.8 | 30.4 | 29.8 | 29.3 | 28.6 | 28.4 | 28.2 | 27.7 | 27.9 | 27.6 | 26.8 | | | | | | | |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | | | | | | | | | | | | | | |
| 13948 | 27.1 | 28.1 | 27.9 | 27.6 | 24.6 | 25.5 | 24.4 | 25.4 | 24.9 | 27.1 | 23.1 | FM 3 | | | | | | |
| 13949 | 27.0 | 28.2 | 27.0 | 28.2 | 27.4 | 27.1 | 27.8 | 28.4 | 29.4 | 27.5 | 27.3 | 27.3 | 26.7 | | | | | |
| 13950 | 28.9 | 28.6 | 28.4 | 30.3 | 25.7 | 27.5 | MS | 26.9 | 26.1 | 27.0 | 29.0 | FD 2 | FS | FS | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 21): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | 0 MG/KG/DAY | | | | | | POSTPARTUM DAY 22 | | | | |
| 13801 | 45.0 | 44.6 | 47.5 | 45.2 | 40.6 | 42.5 | 44.3 | 46.3 | 44.1 | | | | | | | | | |
| 13802 | 44.3 | 45.4 | 43.0 | 43.1 | 46.5 | 40.5 | 44.7 | 43.5 | 37.3 | 41.3 | 44.9 | 42.1 | 44.4 | 41.6 | | | | |
| 13803 | 43.9 | 40.0 | 40.7 | 40.6 | 48.3 | 38.8 | 42.1 | 36.9 | 44.5 | FM 7 | 42.5 | 42.0 | 41.9 | 39.7 | 38.9 | 38.4 | | |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | | | | |
| 13805 | 48.1 | 44.9 | 46.6 | 46.3 | 45.3 | 43.2 | 41.0 | 43.0 | 38.3 | 45.2 | 39.0 | 40.0 | 43.4 | | | | | |
| 13806 | 32.7 | 35.4 | 32.1 | 35.0 | 34.4 | MM 3 | 34.2 | 32.4 | 33.4 | 36.4 | 32.8 | 35.5 | 31.4 | 33.7 | 35.3 | 36.2 | 36.6 | |
| 13807 | 27.4 | 26.4 | 26.8 | 20.1 | 25.4 | 26.5 | 26.2 | 26.1 | 24.8 | 23.5 | 26.0 | 24.8 | 23.4 | 27.3 | 25.2 | 22.3 | 25.8 | |
| 13808 | 40.9 | 41.1 | 42.8 | 36.6 | 39.5 | 44.4 | MS | 39.8 | 42.2 | 36.4 | 37.7 | 43.2 | 41.8 | | | | | |
| 13809 | 32.2 | 38.5 | 36.9 | 35.9 | 34.6 | 36.5 | 37.3 | 35.3 | 37.3 | 34.5 | 36.2 | 32.4 | 33.8 | | | | | |
| 13810 | 48.3 | 45.4 | 43.4 | 45.1 | MD 3 | MS | 43.5 | 41.2 | 45.3 | 41.4 | 43.1 | 41.7 | 41.6 | 43.5 | FD 1 | | | |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13812 | 43.2 | 42.0 | 41.4 | 44.7 | 41.9 | 42.5 | 44.9 | 40.7 | 48.6 | 39.6 | 41.5 | 42.4 | 40.1 | 42.4 | | | | |
| 13813 | 43.9 | 40.1 | 44.2 | 45.2 | 45.8 | 44.0 | 39.5 | 46.4 | 43.1 | 40.6 | 42.9 | 46.6 | UU | | | | | |
| 13814 | 37.1 | 31.8 | 36.4 | 35.3 | 38.8 | 35.5 | 32.7 | 33.2 | 31.9 | 34.1 | 26.9 | 36.5 | 32.9 | 32.5 | 34.5 | 26.6 | FM 2 | |
| 13815 | 36.2 | 33.4 | 32.8 | 33.8 | 32.2 | 33.5 | 31.7 | 31.6 | 30.8 | 32.4 | 34.9 | 28.4 | 34.0 | 31.3 | 26.5 | | | |
| 13816 | 32.8 | 32.2 | 31.8 | 34.4 | 34.4 | 25.6 | 32.5 | 27.9 | 30.9 | 27.3 | 29.1 | 27.1 | 32.4 | 30.4 | 29.9 | UU | | |
| 13817 | 36.0 | 36.2 | 39.9 | 37.9 | 41.0 | 37.5 | 36.7 | 40.7 | 33.3 | 39.7 | 36.7 | 38.2 | 37.1 | 36.8 | FD 2 | | | |
| 13818 | 31.9 | 24.3 | 27.1 | 31.8 | 28.1 | 31.2 | 28.9 | 25.8 | 28.5 | 26.0 | 27.3 | 26.5 | 24.6 | 26.6 | FM 4 | FD 2 | | |
| 13819 | 31.7 | 29.1 | 30.6 | 30.6 | MD 1 | 30.0 | 29.8 | 27.8 | 27.8 | 29.9 | 26.4 | 29.6 | 29.8 | | | | | |
| 13820 | 27.2 | 25.0 | 26.1 | 27.8 | 27.7 | 20.8 | 23.4 | 21.8 | 25.7 | 36.4 | 32.1 | 34.2 | 33.4 | 32.8 | | | | |
| 13821 | 36.4 | 43.0 | 48.9 | 40.6 | 35.0 | 36.9 | 44.7 | 38.7 | 35.1 | 40.6 | 43.1 | 39.2 | 39.6 | 35.7 | 39.7 | 37.5 | 36.4 | |
| 13822 | MX 8 | MX 8 | MX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | FX 8 | | | | | | |
| 13823 | 57.2 | 53.3 | 52.0 | 53.4 | 52.9 | 53.0 | 54.1 | 55.1 | 51.3 | | | | | | | | | |
| 13824 | 31.7 | 49.1 | 40.5 | 43.7 | 40.7 | 41.7 | 37.0 | 38.4 | 37.0 | 33.3 | 37.6 | 41.1 | 41.2 | 40.2 | 38.8 | 43.7 | | |
| 13825 | 36.1 | 34.9 | 29.1 | 35.9 | 34.6 | 32.7 | 36.1 | 34.3 | 32.9 | 31.1 | 37.4 | 35.6 | 36.4 | 33.4 | 34.6 | | | |
| 13826 | 26.4 | 34.9 | 32.0 | 27.7 | 31.8 | 33.3 | 35.2 | 35.1 | 23.6 | 28.8 | 27.8 | 33.9 | 27.2 | 29.9 | 30.1 | 28.0 | | |
| 13827 | 42.5 | 40.3 | 39.8 | 45.0 | 37.9 | 42.4 | 42.9 | 43.7 | MM 2 | 41.1 | 42.1 | 37.5 | 40.6 | 41.2 | 38.3 | 39.7 | | |
| 13828 | 39.3 | 35.8 | 47.0 | 42.2 | 42.0 | 40.8 | 41.1 | 35.8 | 40.7 | 32.5 | 40.2 | 42.7 | 39.6 | 40.2 | | | | |
| 13829 | 42.8 | 42.0 | 45.5 | 40.6 | 39.0 | 38.2 | 40.8 | 40.6 | 32.8 | 42.4 | 42.5 | 33.5 | 36.5 | | | | | |
| 13830 | 38.5 | 34.6 | 35.3 | 36.7 | 35.0 | 33.2 | 35.4 | MS | 32.9 | 35.8 | 36.9 | 38.0 | 34.2 | 32.7 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 22): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | 1 MG/KG/DAY | | | | | POSTPARTUM DAY 22 | | | | | |
| 13831 | 39.4 | 36.2 | 30.8 | 33.6 | 34.3 | 32.1 | 41.4 | 33.6 | 30.6 | 32.6 | 35.6 | 33.1 | 36.5 | 32.6 | 32.6 | 28.7 | 36.7 | |
| 13832 | 40.3 | 45.0 | 43.3 | 42.3 | 45.2 | 46.0 | 37.6 | 35.3 | 40.1 | 43.4 | 39.8 | 44.0 | 37.0 | 35.5 | | | | |
| 13833 | 50.2 | 40.0 | 40.9 | 43.0 | 40.5 | 43.7 | 39.1 | 38.8 | 40.7 | 39.9 | 43.7 | 36.0 | 40.0 | 41.8 | FM 3 | | | |
| 13834 | 36.2 | 40.5 | 34.5 | 38.0 | 37.3 | 34.0 | 31.8 | 37.7 | 32.4 | 41.2 | 34.3 | 36.7 | 37.7 | | | | | |
| 13835 | 36.7 | 35.2 | 36.9 | 33.0 | 35.7 | 37.8 | 34.4 | 30.4 | 35.6 | 30.5 | 33.5 | 31.1 | 37.3 | 28.7 | 35.7 | 31.0 | FD 3 | FD 2 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | | | | |
| 13837 | 37.8 | 39.4 | 41.1 | 38.5 | 41.1 | 36.1 | 41.6 | 37.6 | 37.6 | 38.1 | 34.9 | FS | | | | | | |
| 13838 | 36.0 | 41.6 | 37.8 | 33.3 | 37.6 | 32.8 | 38.0 | 36.6 | 21.7 | 35.0 | 35.8 | 34.7 | 33.0 | 34.9 | 36.0 | 34.6 | 37.7 | FD 4 |
| 13839 | 37.0 | 36.1 | 32.6 | 37.5 | 34.0 | 39.3 | 40.0 | 39.0 | 22.0 | 32.7 | 31.9 | 33.0 | | | | | | |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13841 | 46.5 | 45.2 | 36.3 | 38.8 | 41.4 | 37.0 | 33.0 | 44.3 | 39.5 | 42.2 | FD | UU | | | | | | |
| 13842 | 37.2 | 43.4 | 39.0 | 43.4 | 39.4 | MD 7 | 34.2 | 33.7 | 37.2 | 37.1 | 39.2 | 37.7 | 37.2 | | | | | |
| 13843 | 35.1 | 33.2 | 35.3 | 34.6 | 34.3 | 33.7 | 30.1 | 34.0 | 30.6 | 33.5 | | | | | | | | |
| 13844 | 42.9 | 32.0 | 33.6 | 34.5 | 37.3 | 32.0 | 30.1 | 30.5 | 26.9 | 26.5 | 29.7 | 34.8 | 28.4 | 27.6 | 27.8 | 28.4 | FD 8 | |
| 13845 | 45.3 | 33.8 | 45.1 | 42.7 | 42.7 | 48.4 | 43.6 | 44.5 | 43.3 | 40.4 | 45.6 | 42.8 | | | | | | |
| 13846 | 36.2 | 37.2 | 35.7 | 31.2 | 35.1 | 35.3 | 36.3 | 31.0 | 35.8 | 28.8 | 32.9 | 33.7 | 34.1 | FM 2 | | | | |
| 13847 | 55.0 | 51.4 | 55.4 | MS | MS | MS | MS | 56.6 | 50.4 | 52.7 | 53.5 | 52.5 | FS | FS | FS | | | |
| 13848 | 39.3 | 43.8 | 43.3 | 40.9 | 43.2 | 43.1 | 42.7 | 39.2 | 49.5 | 45.0 | 37.9 | 43.1 | 40.6 | 41.1 | 38.4 | 38.6 | | |
| 13849 | 27.5 | 26.5 | 23.7 | 25.3 | 26.3 | 28.1 | 25.5 | 24.3 | 25.6 | 28.4 | 27.6 | 29.6 | 26.7 | 23.6 | 24.9 | 25.3 | | |
| 13850 | 37.4 | 37.7 | 38.4 | 39.0 | 37.3 | 38.5 | 33.8 | 35.6 | 38.0 | 34.6 | 33.4 | 33.8 | FS | | | | | |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13852 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | FX11 | FX11 | FX11 | FX11 | | | | | | |
| 13853 | 33.4 | 37.8 | 32.2 | 32.9 | 31.4 | 35.0 | 33.7 | 28.3 | 29.7 | 32.4 | 32.8 | 34.1 | 29.8 | 28.1 | 27.5 | 27.1 | 30.0 | |
| 13854 | 30.1 | 26.5 | 35.2 | 28.8 | 29.6 | 29.5 | 29.6 | 25.9 | 30.8 | 29.2 | 29.7 | 30.3 | 23.8 | 29.0 | 25.4 | 27.3 | 27.1 | |
| 13855 | 40.2 | 38.9 | 34.0 | 42.0 | 39.5 | 38.8 | 39.3 | 39.4 | 40.4 | 37.0 | 36.7 | 39.9 | 39.6 | 40.8 | FD 5 | FD 1 | | |
| 13856 | 32.9 | 31.6 | 29.8 | 38.6 | 32.7 | 33.6 | 33.0 | 35.5 | 34.0 | 22.7 | 31.1 | 25.6 | 29.9 | 36.0 | 31.8 | 23.6 | | |
| 13857 | 39.6 | 44.1 | 43.9 | 44.2 | 42.7 | 41.2 | 38.6 | 42.3 | 41.4 | 41.5 | 39.8 | 38.4 | 41.8 | 38.3 | FS | | | |
| 13858 | 30.5 | 35.3 | 33.8 | 33.2 | 35.2 | 32.7 | 31.3 | 34.6 | 32.1 | 33.6 | 30.6 | 30.7 | 33.2 | 35.7 | 36.4 | 36.2 | 32.3 | |
| 13859 | 37.4 | 40.3 | 39.6 | 40.1 | 43.4 | 41.5 | 40.1 | 35.9 | 39.0 | 42.7 | 38.5 | 38.3 | 38.6 | 40.7 | FD11 | | | |
| 13860 | 33.9 | 36.6 | 39.5 | 37.3 | 37.5 | 35.4 | 36.1 | 39.0 | 35.4 | 38.7 | 38.3 | 35.9 | 37.0 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 23): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | 3 MG/KG/DAY | | | | | | | POSTPARTUM DAY 22 | | | | |
| 13861 | 32.8 | 33.1 | 32.0 | 36.5 | 36.2 | 36.8 | 36.0 | 33.8 | 32.0 | 35.2 | | | | | | | | |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | | | | |
| 13863 | 32.2 | 30.8 | 32.5 | 32.1 | 33.0 | 30.3 | 33.9 | 34.3 | 30.5 | 28.6 | 30.2 | 27.3 | 34.6 | 33.0 | 31.5 | FM 3 | | |
| 13864 | 57.8 | 60.2 | 61.1 | 59.3 | 61.5 | 59.8 | FS | | | | | | | | | | | |
| 13865 | 26.9 | 29.5 | 30.9 | 30.4 | 28.5 | 31.9 | 31.4 | MD 1 | 26.2 | 27.7 | 30.3 | 28.6 | 25.3 | 30.7 | 30.8 | 31.5 | 29.8 | |
| 13866 | 18.1 | 35.8 | 36.3 | 39.3 | 33.8 | 43.5 | 39.1 | MD15 | 10.4 | 38.6 | 27.6 | 30.3 | 37.9 | 34.0 | 38.3 | 32.4 | 35.8 | FD 8 |
| 13867 | 26.2 | 30.2 | 28.0 | 29.4 | 29.9 | 31.2 | 30.9 | MD 7 | MD 6 | MS | 30.0 | 27.7 | 28.2 | 28.2 | 31.6 | FD 6 | | |
| 13868 | 37.6 | 33.8 | 26.6 | 37.4 | 34.5 | 35.6 | 34.3 | 35.2 | 33.0 | 32.8 | 33.3 | 34.9 | 34.5 | 32.1 | 35.6 | 35.0 | | |
| 13869 | 27.0 | 33.3 | 29.7 | 31.7 | 33.7 | 33.0 | 34.8 | 23.2 | 29.8 | 24.1 | 27.2 | 29.0 | 31.6 | 33.9 | 22.7 | FD 4 | | |
| 13870 | 41.6 | 37.7 | 36.3 | 44.6 | 37.7 | 44.4 | 42.3 | 35.5 | | | | | | | | | | |
| 13871 | 26.9 | 26.1 | 32.3 | 26.8 | MD 3 | 31.4 | 23.6 | 29.9 | 26.6 | 27.9 | 29.4 | 29.1 | FD20 | FM 7 | FD 4 | | | |
| 13872 | 30.7 | 34.1 | 27.8 | 29.5 | 29.8 | 30.8 | 32.2 | 33.7 | 30.6 | 33.4 | 27.0 | 27.6 | 27.7 | 30.1 | 30.0 | 26.7 | 27.1 | |
| 13873 | 39.1 | 24.5 | 29.8 | 35.3 | 31.0 | 39.5 | 41.9 | 39.4 | 40.1 | 35.6 | 36.8 | 28.3 | 36.8 | 34.0 | 34.3 | 37.2 | FM 4 | |
| 13874 | 49.1 | 50.0 | 48.5 | 51.3 | 54.7 | 44.0 | 43.4 | 42.5 | 40.6 | 47.0 | 50.1 | 46.1 | 46.0 | 42.2 | 42.6 | 45.1 | FD 2 | |
| 13875 | 41.2 | 33.0 | 35.3 | 28.9 | 38.1 | 37.3 | 44.4 | 40.1 | 31.8 | 31.0 | 39.9 | 40.7 | 44.4 | 33.5 | 42.9 | 35.0 | | |
| 13876 | 49.0 | 50.3 | 47.2 | 50.2 | 47.0 | 45.3 | 48.1 | 41.1 | 47.0 | 45.0 | 48.7 | 46.4 | 47.2 | FS | FD 1 | | | |
| 13877 | 48.5 | 47.2 | 43.9 | 45.8 | 46.7 | 45.6 | 46.0 | 42.2 | 32.9 | 41.2 | 42.5 | 43.7 | 47.4 | FS | | | | |
| 13878 | 48.9 | 48.8 | 52.3 | 51.8 | 42.4 | 48.0 | 52.3 | 46.7 | 45.2 | | | | | | | | | |
| 13879 | 48.7 | 50.2 | 48.0 | 46.1 | 48.8 | 48.8 | 51.6 | 47.9 | 48.9 | 47.7 | 47.4 | | | | | | | |
| 13880 | 45.0 | 40.0 | 44.8 | 47.6 | 49.9 | 52.6 | 47.1 | 52.8 | 55.2 | 52.0 | 42.9 | 47.4 | 49.3 | | | | | |
| 13881 | 41.4 | 40.1 | 39.1 | 39.1 | 37.7 | 40.9 | 40.8 | 37.2 | 37.6 | 36.3 | 38.8 | | | | | | | |
| 13882 | 37.6 | 44.0 | 37.4 | 39.3 | 42.2 | 43.9 | 46.3 | 43.3 | 41.6 | 40.5 | 34.1 | 34.8 | 44.5 | 37.3 | 45.1 | FD 3 | | |
| 13883 | 43.6 | 47.3 | 48.0 | 41.9 | 45.9 | 44.4 | 52.9 | 48.0 | 38.2 | 45.8 | 51.4 | 51.4 | 42.3 | 47.6 | FD 1 | | | |
| 13884 | 36.4 | 51.3 | 42.3 | 43.5 | 39.9 | 46.1 | 27.4 | 43.1 | 41.9 | 44.0 | 40.9 | | | | | | | |
| 13885 | 55.5 | 51.5 | 53.5 | | | | | | | | | | | | | | | |
| 13886 | 43.9 | 38.8 | 40.3 | 44.3 | 42.4 | 47.9 | 42.6 | 40.6 | 44.2 | 41.0 | 41.4 | 33.9 | | | | | | |
| 13887 | 47.7 | 49.9 | 52.4 | 51.7 | 53.8 | 50.4 | 50.0 | 50.7 | 45.3 | 50.3 | 46.3 | | | | | | | |
| 13888 | 36.3 | 36.5 | 31.4 | 30.7 | 29.7 | 29.6 | 30.2 | 31.3 | 25.9 | 34.2 | 32.7 | 30.7 | 29.7 | 32.5 | FS | | | |
| 13889 | 35.4 | 34.4 | 32.2 | 34.1 | 35.8 | 34.1 | 36.9 | 38.9 | 35.0 | 39.1 | 32.1 | 35.1 | 31.7 | 32.3 | 32.4 | 29.6 | | |
| 13890 | 43.1 | 39.0 | 20.4 | 31.1 | 42.3 | 40.5 | 42.5 | 38.8 | 42.0 | 38.2 | 35.6 | 38.6 | 42.0 | 38.9 | 44.0 | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 24): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | | | | POSTPARTUM DAY 22 | | | |
| 13891 | 47.8 | 51.6 | 49.0 | 46.0 | MS | 47.2 | 44.1 | 46.1 | 45.5 | 47.8 | 43.8 | | | | | | | |
| 13892 | 36.8 | 38.7 | 35.3 | 41.1 | 44.3 | 39.5 | 38.5 | 37.9 | 37.8 | 36.3 | 37.8 | 35.7 | 37.4 | 36.5 | 36.7 | FS | | |
| 13893 | 44.1 | 39.1 | 46.4 | 46.1 | 42.2 | 42.5 | 40.9 | 41.2 | 38.7 | 44.0 | 37.8 | 42.0 | 43.4 | 37.0 | 43.5 | | | |
| 13894 | 40.2 | 36.9 | 35.9 | 46.0 | 34.9 | 36.9 | MM 4 | 26.9 | 37.0 | 37.3 | 35.7 | 38.9 | 34.2 | 34.5 | | | | |
| 13895 | 40.1 | 30.3 | 33.0 | 22.7 | 41.0 | 42.2 | 43.6 | 39.2 | 43.8 | 45.5 | 41.3 | 39.9 | 39.6 | 40.0 | 37.3 | | | |
| 13896 | 44.5 | 41.7 | 39.8 | 44.3 | 40.7 | 37.6 | 40.6 | 39.0 | 37.1 | 33.9 | 37.4 | 41.0 | | | | | | |
| 13897 | 44.9 | 48.6 | 48.5 | 48.8 | 44.4 | 45.6 | 41.0 | 42.2 | 45.5 | 42.3 | 43.1 | 44.1 | | | | | | |
| 13898 | 23.7 | 33.2 | 27.9 | 28.9 | 32.9 | 29.0 | 33.6 | 25.1 | 24.0 | 28.5 | 25.4 | 28.1 | 29.9 | 29.6 | 28.1 | 29.0 | FD 3 | |
| 13899 | 32.4 | 35.1 | 34.4 | 32.8 | 37.1 | 36.9 | 32.5 | 32.2 | 30.5 | 35.8 | 31.7 | | | | | | | |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | |
| 13901 | 28.3 | 30.6 | 35.5 | 29.3 | 30.7 | 34.7 | 32.7 | 30.8 | 22.5 | 28.4 | 25.9 | 31.8 | 29.5 | 32.8 | 27.6 | FD 7 | | |
| 13902 | 39.7 | 43.3 | 42.2 | 44.3 | 41.9 | 41.5 | 43.7 | 42.6 | 31.9 | 40.1 | 40.2 | 38.8 | 39.6 | 42.3 | 37.9 | | | |
| 13903 | 39.6 | 40.4 | 38.8 | 42.3 | 42.0 | 40.9 | 36.4 | 46.4 | 42.4 | 41.8 | 44.1 | 44.7 | 38.4 | 32.4 | | | | |
| 13904 | 28.1 | 31.3 | 38.9 | 35.6 | 36.9 | 36.2 | 34.0 | 37.3 | 37.4 | 26.9 | 36.3 | 30.3 | 31.5 | 32.3 | | | | |
| 13905 | 38.4 | 29.2 | 44.2 | 42.3 | 36.1 | 44.8 | 36.6 | 32.2 | 34.9 | 34.9 | 33.5 | 34.2 | 41.0 | 37.0 | 41.0 | 41.6 | | |
| 13906 | 49.8 | 47.4 | 50.3 | 48.1 | 45.9 | MD 3 | MS | MS | 46.3 | 43.0 | 48.3 | 50.1 | 46.5 | 52.1 | 50.5 | FD 8 | | |
| 13907 | 26.7 | 30.9 | 23.2 | 26.4 | 30.4 | 28.3 | 25.7 | 28.1 | 30.3 | 29.2 | 26.9 | 25.4 | 31.6 | 28.5 | 25.9 | 23.4 | | |
| 13908 | 51.3 | 59.5 | 59.5 | 50.5 | | | | | | | | | | | | | | |
| 13909 | 36.1 | 42.5 | 37.3 | 41.4 | 39.8 | 38.4 | 39.1 | 41.8 | 33.6 | 41.4 | 37.1 | 39.2 | 35.6 | 38.7 | | | | |
| 13910 | 32.3 | 39.5 | 36.0 | 36.2 | 35.8 | 40.9 | 36.6 | 38.0 | 35.3 | 35.3 | 36.1 | 38.0 | 38.0 | 41.2 | 39.0 | | | |
| 13911 | 39.0 | 43.4 | 43.4 | 40.3 | 42.5 | 46.3 | 41.3 | 43.3 | 40.7 | 39.8 | 43.0 | 40.9 | | | | | | |
| 13912 | 39.3 | 35.7 | 39.7 | 43.6 | 40.0 | 38.4 | 39.9 | 40.8 | 36.8 | 38.7 | 37.4 | 35.3 | 37.1 | 38.9 | | | | |
| 13913 | 43.2 | 44.8 | 46.2 | 44.1 | 46.9 | 47.0 | 45.9 | 48.2 | 37.2 | 40.8 | 41.0 | 49.6 | 42.6 | | | | | |
| 13914 | 29.3 | 35.9 | 29.8 | 34.4 | 29.3 | 33.3 | 33.4 | 34.4 | 32.2 | 30.6 | 28.9 | 35.0 | 26.5 | 37.0 | 32.2 | 32.7 | 32.1 | FM 3 |
| 13915 | 27.8 | 39.5 | 31.8 | 36.6 | 37.0 | 34.9 | 41.6 | 38.6 | 38.5 | 33.4 | 37.8 | 33.8 | 35.8 | 35.0 | 34.9 | 29.3 | 33.3 | |
| 13916 | 40.7 | 47.2 | 43.2 | 39.7 | 49.3 | 46.0 | 44.9 | 42.6 | 32.8 | 40.5 | 40.2 | 37.6 | 39.6 | 37.4 | 38.9 | 41.6 | | |
| 13917 | 41.3 | 44.3 | 46.2 | 40.8 | 48.0 | 41.5 | 43.6 | | | | | | | | | | | |
| 13918 | 46.7 | 40.0 | 45.3 | 46.3 | 44.8 | 40.5 | 37.1 | 43.1 | 41.7 | 43.5 | 38.4 | 42.7 | 39.1 | 41.3 | | | | |
| 13919 | 38.2 | 39.6 | 40.0 | 39.6 | 38.1 | 38.4 | 30.2 | 29.7 | 32.9 | 40.2 | 41.9 | 36.1 | 37.3 | 37.4 | | | | |
| 13920 | 26.9 | 32.5 | 32.3 | 33.6 | 32.6 | 33.1 | MD 9 | 32.2 | 23.7 | 29.9 | 30.9 | 31.7 | 31.5 | FD 9 | FD 9 | FD 3 | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C37 (PAGE 25): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 22 | | | | |
| 13921 | 41.8 | 27.6 | 23.2 | 46.1 | 47.0 | 45.6 | 46.5 | 42.1 | MM 6 | 40.7 | 13.6 | 19.5 | 40.6 | 41.7 | 43.9 | | | |
| 13922 | 42.0 | 40.9 | 40.4 | 32.8 | MM 2 | MD 1 | MD 1 | FM 2 | FM 2 | | | | | | | | | |
| 13923 | 31.5 | 33.4 | 33.5 | 33.0 | 31.9 | 31.6 | 33.6 | 29.6 | 28.4 | 29.4 | 30.7 | 30.7 | 30.3 | 32.5 | | | | |
| 13924 | 33.5 | 32.3 | 30.2 | 29.8 | 28.6 | 34.5 | 34.3 | 34.3 | 37.2 | 35.4 | 25.2 | 30.7 | 32.3 | 26.1 | 34.3 | 32.6 | 27.9 | |
| 13925 | 32.9 | 31.0 | 40.8 | 40.8 | 31.0 | 23.0 | 24.0 | 36.7 | 26.2 | 37.2 | 38.2 | 32.8 | 34.7 | | | | | |
| 13926 | 34.6 | 33.2 | 33.3 | 30.0 | 32.3 | 34.4 | 30.9 | 34.0 | MS | 32.3 | 34.9 | 28.7 | 31.9 | 31.2 | 32.8 | | | |
| 13927 | 25.3 | 27.1 | 23.9 | 22.3 | 24.0 | 25.4 | 25.7 | 18.9 | 20.6 | 24.7 | 27.6 | 22.5 | 22.5 | 23.4 | 25.3 | FD 7 | | |
| 13928 | 42.1 | 40.7 | 40.3 | 43.1 | MD 8 | MD 3 | 43.2 | 36.8 | 34.7 | 38.2 | 38.4 | 40.7 | 36.6 | 37.7 | 38.8 | 37.6 | | |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | | | | |
| 13930 | 19.3 | 24.2 | 25.6 | 26.4 | 27.3 | 25.2 | 25.1 | 25.3 | MD 8 | 25.2 | 21.4 | 21.3 | 25.2 | 24.9 | 20.5 | 24.3 | FD 6 | FM 5 |
| 13931 | 19.9 | 28.3 | 24.9 | 29.3 | 26.3 | 27.7 | MD 8 | MD 6 | 25.2 | 26.2 | 26.4 | 24.9 | FD 6 | FD 6 | FM 2 | | | |
| 13932 | 31.3 | 33.4 | 34.9 | 36.5 | 31.5 | 33.1 | 33.6 | 32.7 | 31.0 | 32.7 | 31.2 | 33.7 | 33.1 | 33.9 | | | | |
| 13933 | 27.9 | 26.7 | 25.5 | 29.6 | 32.6 | 27.5 | 26.7 | 27.6 | 24.6 | 29.8 | 26.9 | 30.0 | 27.6 | | | | | |
| 13934 | 29.4 | MM12 | MM 4 | 24.9 | 27.3 | 35.7 | 26.8 | 33.3 | 33.9 | 35.2 | 30.6 | 38.5 | 33.7 | 38.1 | FM 6 | | | |
| 13935 | 31.6 | 30.7 | 36.1 | 34.3 | 36.3 | 33.4 | 32.9 | 30.4 | 21.5 | 33.4 | 31.3 | 35.6 | 33.5 | 35.7 | 34.7 | | | |
| 13936 | 38.2 | 45.2 | 38.0 | 37.6 | 44.1 | 38.5 | 44.3 | 42.4 | 42.6 | 39.4 | 43.2 | 35.2 | 40.4 | 36.4 | | | | |
| 13937 | 40.0 | 41.2 | 44.9 | 43.5 | 41.5 | 39.0 | 40.0 | 42.8 | 38.6 | 40.4 | 42.0 | 40.4 | 38.1 | 41.3 | 39.9 | | | |
| 13938 | 21.7 | 28.0 | 29.2 | 25.3 | 28.9 | 30.0 | 26.1 | MD 2 | 31.4 | 25.9 | 26.4 | 27.3 | 26.0 | 28.1 | 26.0 | 29.5 | | |
| 13939 | 42.1 | 42.4 | 38.4 | 40.1 | 38.1 | 44.3 | 44.3 | 41.1 | 37.6 | 41.6 | 38.8 | 39.6 | 38.5 | 42.0 | FS | | | |
| 13940 | 35.7 | 34.0 | 30.0 | 30.2 | 31.0 | 32.0 | 26.8 | 28.7 | 26.2 | 27.3 | 31.8 | 30.7 | 31.0 | 27.2 | 32.1 | | | |
| 13941 | 42.1 | 38.5 | 36.8 | 38.5 | 39.8 | 42.4 | 41.4 | 39.6 | 35.9 | 31.9 | 36.3 | 35.2 | 37.1 | FS | | | | |
| 13942 | 40.7 | 24.3 | 35.7 | 32.6 | 38.9 | 39.3 | 38.0 | 35.5 | 34.3 | 40.0 | 39.9 | 30.4 | 36.1 | 35.5 | 40.1 | 35.4 | | |
| 13943 | 57.5 | 57.2 | 46.9 | 61.7 | 51.9 | 53.6 | 56.4 | | | | | | | | | | | |
| 13944 | 35.1 | 39.7 | 37.2 | MM 5 | 27.9 | 34.1 | 36.5 | 34.7 | 37.3 | 38.3 | 34.6 | FM10 | | | | | | |
| 13945 | 37.6 | 38.7 | 41.5 | 38.7 | 39.0 | 39.7 | 39.5 | 39.3 | 40.0 | 40.0 | 39.3 | 37.0 | 42.8 | 38.0 | | | | |
| 13946 | 43.2 | 44.1 | 46.2 | 44.5 | 45.8 | 40.9 | 43.1 | 41.7 | 43.1 | 42.3 | 43.2 | | | | | | | |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | | | | | | | | | | | | | | |
| 13948 | 48.4 | 40.2 | 46.1 | 43.4 | 44.8 | 39.9 | 39.9 | 41.7 | 37.1 | 41.9 | 42.4 | FM 3 | | | | | | |
| 13949 | 44.2 | 40.8 | 40.9 | 42.9 | 43.0 | 42.3 | 41.5 | 43.6 | 40.9 | 42.2 | 40.1 | 39.9 | 38.3 | | | | | |
| 13950 | 44.1 | 40.7 | 47.3 | 44.2 | 47.5 | 47.4 | MS | 45.4 | 44.7 | 42.0 | 46.6 | FD 2 | FS | FS | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C38 (PAGE 1): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | | | 0 MG/KG/DAY | | | | | | | | | | | | | |
| 13801 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | |
| 13802 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | |
| 13803 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | FM | 7 | F | A | F | A | F | A | F | A | F | A | |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | | | | | | | | | | | | |
| 13805 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13806 | M | A | M | A | M | A | M | A | M | A | MM | 3 | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13807 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13808 | M | A | M | A | M | A | M | A | M | A | M | S | F | A | F | A | F | A | F | A | F | A | | | | | | | |
| 13809 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | | | | | |
| 13810 | M | A | M | A | M | A | M | A | MD | 3 | M | S | F | A | F | A | F | A | F | A | F | A | F | A | F | A | FD | 1 | |
| 13811 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 13812 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | |
| 13813 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | U | U | | | | | |
| 13814 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | FM 2 |
| 13815 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | |
| 13816 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | U | U | |
| 13817 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | FD | 2 | | | |
| 13818 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | FM | 4 | FD | 2 | |
| 13819 | M | A | M | A | M | A | MD | 1 | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | | | | |
| 13820 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | | |
| 13821 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13822 | MX | 8 | MX | 8 | MX | 8 | FX | 8 | FX | 8 | FX | 8 | FX | 8 | FX | 8 | FX | 8 | FX | 8 | FX | 8 | FX | 8 | | | | | |
| 13823 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | | | |
| 13824 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13825 | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13826 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13827 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | MM | 2 | M | A | F | A | F | A | F | A | F | A | F | A | |
| 13828 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | | |
| 13829 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | |
| 13830 | M | A | M | A | M | A | M | A | M | A | M | A | M | S | F | A | F | A | F | A | F | A | F | A | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C38 (PAGE 2): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | | | | | 1 MG/KG/DAY | | | | | | | | | | | |
| 13831 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | |
| 13832 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | | | | |
| 13833 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | FM 3 | | | | | | | | |
| 13834 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 13835 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | FD 3 | FD 2 | | | | | |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | | | | | | | | | | | | |
| 13837 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F S | | | | | | | | | | | |
| 13838 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | FD 4 | | | | | |
| 13839 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 13840 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 13841 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F D | U U | | | | | | | | | | | |
| 13842 | M A | M A | M A | M A | M A | MD 7 | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | |
| 13843 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | | | | | |
| 13844 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | FD 8 | | | | | | |
| 13845 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 13846 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | FM 2 | | | | | | | | | |
| 13847 | M A | M A | M A | M S | M S | M S | M S | M A | F A | F A | F A | F A | F S | F S | F S | | | | | | | | |
| 13848 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | |
| 13849 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | |
| 13850 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F S | | | | | | | | | | |
| 13851 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 13852 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | MX11 | FX11 | FX11 | FX11 | FX11 | | | | | | | | | | | |
| 13853 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | |
| 13854 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | |
| 13855 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | FD 5 | FD 1 | | | | | | |
| 13856 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | |
| 13857 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F S | | | | | | | |
| 13858 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | |
| 13859 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | FD11 | | | | | | | | |
| 13860 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
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PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C38 (PAGE 3): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | | | | 3 MG/KG/DAY | | | | | | | | | | | | | |
| 13861 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | | | | | |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | | | | | | | | | | | | |
| 13863 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | FM 3 |
| 13864 | M | A | M | A | M | A | M | A | F | A | F | A | F | S | | | | | | | | | |
| 13865 | M | A | M | A | M | A | M | A | M | A | M | A | MD 1 | | F | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13866 | M | A | M | A | M | A | M | A | M | A | M | A | MD15 | | F | A | F | A | F | A | F | A | F | A | F | A | F | A | FD 8 |
| 13867 | M | A | M | A | M | A | M | A | M | A | M | A | MD 7 | MD 6 | M | S | F | A | F | A | F | A | F | A | FD 6 | | | | |
| 13868 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13869 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | FD 4 | | | | |
| 13870 | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | | | | | | | |
| 13871 | M | A | M | A | M | A | MD 3 | | F | A | F | A | F | A | F | A | F | A | F | A | FD20 | FM 7 | FD 4 | | | | | | |
| 13872 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13873 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | FM 4 |
| 13874 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | FD 2 | | |
| 13875 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13876 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | S | FD 1 | | | | | | |
| 13877 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | S | | | | | | | |
| 13878 | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | | | | | | | | | | | | | |
| 13879 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | |
| 13880 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | |
| 13881 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | |
| 13882 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | FD 3 | | |
| 13883 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | FD 1 | | | | | | |
| 13884 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | |
| 13885 | M | A | M | A | F | A | | | | | | | | | | | | | | | | | | | | | | | |
| 13886 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | |
| 13887 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | | | | | | | |
| 13888 | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | S | | | |
| 13889 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13890 | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
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TABLE C38 (PAGE 4): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | | | 10 MG/KG/DAY | | | | | | | | | | | | | |
| 13891 | M A | M A | M A | M A | M S | F A | F A | F A | F A | F A | F A | | | | | | | | | | | | |
| 13892 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F S | | | | | | |
| 13893 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 13894 | M A | M A | M A | M A | M A | M A MM 4 | | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 13895 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | | |
| 13896 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | | |
| 13897 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | | | | |
| 13898 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A FD 3 | | | | | | | |
| 13899 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | | | | |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | | | | |
| 13901 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A FD 7 | | | | | | | |
| 13902 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 13903 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 13904 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | |
| 13905 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | |
| 13906 | M A | M A | M A | M A | M A MD 3 | | M S | M S | F A | F A | F A | F A | F A | F A | F A FD 8 | | | | | | | | |
| 13907 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | |
| 13908 | M A | M A | F A | F A | | | | | | | | | | | | | | | | | | | |
| 13909 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 13910 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 13911 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | | | | | |
| 13912 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 13913 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 13914 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A FM 3 | | | | | |
| 13915 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | |
| 13916 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | |
| 13917 | M A | M A | M A | F A | F A | F A | F A | | | | | | | | | | | | | | | | |
| 13918 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 13919 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 13920 | M A | M A | M A | M A | M A | M A MD 9 | | F A | F A | F A | F A | F A | F A | F A FD 9 FD 9 FD 3 | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
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TABLE C38 (PAGE 5): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | | | | 30 MG/KG/DAY | | | | | | | | | | | | | |
| 13921 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | MM 6 | F | A | F | A | F | A | F | A | F | A |
| 13922 | M | A | M | A | M | A | M | A | MM 2 | MD 1 | MD 1 | FM 2 | FM 2 | | | | | | | | | | |
| 13923 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | |
| 13924 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 13925 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13926 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | S | F | A | F | A | F | A | F | A | F | A | | | |
| 13927 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | FD 7 | | |
| 13928 | M | A | M | A | M | A | MD 8 | MD 3 | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13929 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 13930 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | MD 8 | F | A | F | A | F | A | F | A | F | A | F | A | FD 6 | FM 5 |
| 13931 | M | A | M | A | M | A | M | A | M | A | M | A | MD 8 | MD 6 | F | A | F | A | F | A | F | A | FD 6 | FD 6 | FM 2 | | | | |
| 13932 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | | | |
| 13933 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | | | | |
| 13934 | M | A | MM12 | MM 4 | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | FM 6 | | | | |
| 13935 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13936 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | |
| 13937 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13938 | M | A | M | A | M | A | M | A | M | A | M | A | MD 2 | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | |
| 13939 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | S | | | |
| 13940 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13941 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | S | | | | | |
| 13942 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A |
| 13943 | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | | | | | | | |
| 13944 | M | A | M | A | M | A | MM 5 | F | A | F | A | F | A | F | A | F | A | F | A | FM10 | | | | | | | | | |
| 13945 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | |
| 13946 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | |
| 13947 | FD 1 | | | | | | | | | | | | | | | | | | | | | | |
| 13948 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | FM 3 | | | | | | | | |
| 13949 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | | | |
| 13950 | M | A | M | A | M | A | M | A | M | A | M | S | F | A | F | A | F | A | F | A | FD 2 | F | S | F | S | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-SACRIFICED DUE TO SACRIFICE OF DAM
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TABLE C39 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| I<br>0 | 13807 | 5 | 3/17 PUPS: COLD TO TOUCH; NOT NESTING; NOT NURSING. |
| | 13817 | 1 | 1/15 PUPS: COLD TO TOUCH; NO MILK IN STOMACH. |
| | 13820 | 5 | 1/14 PUPS: COLD TO TOUCH. |
| | 13824 | 2 | 16/16 PUPS: COLD TO TOUCH. |
| | 13827 | 1 | 1/16 PUPS: COLD TO TOUCH. |
| II<br>1 | 13833 | 8, 9 | 1/14 PUPS: UMBILICAL HERNIA. |
| | 13837 | 1 | 1/12 PUPS: COLD TO TOUCH. |
| | 13839 | 1-22 | 1/12 PUPS: NO TAIL PRESENT b; HINDLIMBS ROTATED INWARD. |
| | | 4 | 1/12 PUPS: COLD TO TOUCH. |
| | 13849 | 3 | 1/16 PUPS: COLD TO TOUCH. |
| | 13850 | 1 | 2/13 PUPS: COLD TO TOUCH. |
| | | 5-22 | 1/12 PUPS: TIP OF TAIL MISSING. |
| | 13852 | 5- 6 | 1/12 PUPS: LEFT FORELIMB, MASS (0.3 CM IN DIAMETER). |

NIPPLE EXAMINATIONS FOR ALL MALE PUPS APPEARED NORMAL.
a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Observation confirmed at necropsy.

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TABLE C39 (PAGE 2): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| III | | | |
| 3 | 13868 | 1 | 16/16 PUPS: COLD TO TOUCH. |
| | 13873 | 7 | 1/16 PUPS: COLD TO TOUCH. |
| | 13877 | 3 | 1/13 PUPS: COLD TO TOUCH. |
| | 13878 | 1 | 9/ 9 PUPS: COLD TO TOUCH. |
| | 13887 | 1-20 | 1/11 PUPS: TIP OF TAIL BLACK. |
| | | 21,22 | 1/11 PUPS: TIP OF TAIL MISSING.b |
| | 13888 | 12 | 1/14 PUPS: RED PERIANAL SUBSTANCE. |
| | 13889 | 7 | 2/16 PUPS: COLD TO TOUCH. |
| IV | | | |
| 10 | 13894 | 1- 4 | 1/14 PUPS: TIP OF TAIL MISSING. |
| | | 5-22 | 1/13 PUPS: TIP OF TAIL MISSING. |
| | 13895 | 1- 6 | 1/15 PUPS: BRUISE, BACK (DID NOT EXCEED 2.0 CM X 1.0 CM). |
| | 13898 | 5 | 1/16 PUPS: COLD TO TOUCH. |
| | 13905 | 21,22 | 1/16 PUPS: LEFT EYE, TRAUMATIZED CORNEA.b |
| | 13906 | 7 | 1/13 PUPS: PALE; NO MILK IN STOMACH; NOT NESTING. |
| | 13912 | 5 | 1/14 PUPS: SCAB, BACK (0.2 CM IN DIAMETER). |
| | | 12 | 1/14 PUPS: UMBILICAL HERNIA. |
| | 13914 | 1,2 | 1/18 PUPS: COLD TO TOUCH; NO MILK IN STOMACH. |

NIPPLE EXAMINATIONS FOR ALL MALE PUPS APPEARED NORMAL.
a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Observation confirmed at necropsy.

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TABLE C39 (PAGE 3): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS a | |
|---|---|---|---|---|
| V<br>30 | 13921 | 12-22 | 1/14 PUPS: | MOUTH, MASS (DID NOT EXCEED 0.2 CM X 0.3 CM X 0.1 CM). |
| | 13922 | 1 | 1/ 9 PUPS: | COLD TO TOUCH. |
| | | 15-19 | 1/ 9 PUPS: | UMBILICAL HERNIA. |
| | 13927 | 4- 7 | 1/16 PUPS: | BACK, BRUISE (DID NOT EXCEED 1.0 CM X 0.5 CM). |
| | | 8- 9 | 1/15 PUPS: | BACK, BRUISE (0.2 CM IN DIAMETER). |
| | 13930 | 1, 2 | 18/18 PUPS: | COLD TO TOUCH. |
| | | 3 | 3/18 PUPS: | COLD TO TOUCH. |
| | | 4 | 18/18 PUPS: | COLD TO TOUCH. |
| | | 5 | 1/18 PUPS: | BACK, BRUISE (0.5 CM IN DIAMETER). |
| | | 12-20 | 1/15 PUPS: | UMBILICAL HERNIA. |
| | 13931 | 1 | 1/15 PUPS: | NO MILK IN STOMACH. |
| | | 4,5 | 1/14 PUPS: | BACK, BRUISE (1.0 CM X 0.5 CM). |
| | 13934 | 1,2 | 1/15 PUPS: | HEAD, BRUISE (0.5 CM IN DIAMETER), BACK, BRUISE (2.0 CM X 1.0 CM). |
| | | 3 | 1/15 PUPS: | HEAD AND BACK, BRUISE (1.0 CM IN DIAMETER), CHEST AND LOWER MIDLINE, BRUISE (2.5 CM X 1.5 CM); COLD TO TOUCH. |
| | 13944 | 9 | 1/11 PUPS: | PALE; NO MILK IN STOMACH. |
| | 13948 | 3 | 11/12 PUPS: | COLD TO TOUCH. |
| | | 4 | 11/11 PUPS: | COLD TO TOUCH. |

NIPPLE EXAMINATIONS FOR ALL MALE PUPS APPEARED NORMAL.
a. Tabulation restricted to adverse observations; all other pups appeared normal.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 1): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| I<br>0 | 13801 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13802 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13803 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13805 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13806 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13807 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13808 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13809 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13810 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 3 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13812 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13813 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13814 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13815 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13816 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13817 | 2 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 2): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| I (Cont.) | | | |
| 0 | 13818 | 2 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13819 | 1 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13820 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13821 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13822 | 8b | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13823 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13824 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13825 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13826 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13827 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13828 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13829 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13830 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.
b. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 3): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| II | | | |
| 1 | 13831 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13832 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13833 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13834 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13835 | 2 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 3 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13837 | 1 | 1 PUP: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13838 | 4 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13839 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13841 | 1 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13842 | 7 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13843 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13844 | 8 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13845 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13846 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 4): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| II (Cont.) | | | |
| 1 | 13847 | 1 | 7 PUPS: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13848 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13849 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13850 | 1 | 1 PUP: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13852 | 11b | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13853 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13854 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13855 | 1 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 5 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13856 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13857 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13858 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13859 | 11 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13860 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.
b. The litters from dams 13822 in Group I and 13852 in Group II were mixed together. Both dams and litters were sacrificed because it was not possible to identify to which litter the pups belonged.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 5): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| III<br>3 | 13861 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13863 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13864 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13865 | 1 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13866 | 8 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 15 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13867 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 6 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 7 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13868 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13869 | 4 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13870 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13871 | 3 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 4 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 20 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 6): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| III (Cont.) | | | |
| 3 | 13872 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13873 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13874 | 2 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13875 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13876 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.<br>1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13877 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13878 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13879 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13880 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13881 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13882 | 3 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13883 | 1 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13884 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13886 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13887 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13888 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13889 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13890 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 7): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| IV | | | |
| 10 | 13891 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13892 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13893 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13894 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13895 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13896 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13897 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13898 | 3 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13899 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13901 | 7 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13902 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13903 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13904 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13905 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13906 | 1 | 2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 3 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 8 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13907 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 8): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| IV (Cont.) | | | |
| 10 | 13909 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13910 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13911 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13912 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13913 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13914 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13915 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13916 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13917 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13918 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13919 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13920 | 3 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 9 | 2 PUPS: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 9): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| V | | | |
| 30 | 13921 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13922 | 1 | 2 PUPS: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13923 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13924 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13925 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13926 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13927 | 7 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13928 | 3 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 8 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13930 | 6 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 8 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13931 | 6 | 2 PUPS: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | | 1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 8 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13932 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13933 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C40 (PAGE 10): NECROPSY OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| V (Cont.) | | | |
| 30 | 13934 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13935 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13936 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13937 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13938 | 2 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13939 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13940 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13941 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13942 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13943 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13944 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13945 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13946 | 22 | 1 PUP: KIDNEYS, RIGHT, PELVIS, MODERATE DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL.<br>ALL OTHER PUPS APPEARED NORMAL. |
| | 13947 | 1 | 1 PUP: FOUND DEAD. NO MILK IN STOMACH.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 13948 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13949 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 13950 | 1 | 3 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 2 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C39) for external clinical observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C41 (PAGE 1): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP I 0 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 13801 | 1.67 | 1.53 | 1.60 | 0.27 | 0.21 | 0.24 | 0.21 | 0.23 | 0.22 | 44.6 | 42.5 | 43.6 |
| 13802 | 1.58 | 1.48 | 1.53 | 0.10 | 0.15 | 0.12 | 0.19 | 0.16 | 0.18 | 43.0 | 41.3 | 42.2 |
| 13803 | 1.35 | 1.43 | 1.39 | 0.11 | 0.13 | 0.12 | 0.17 | 0.21 | 0.19 | a | a | a |
| 13804 | MORIBUND SACRIFICED ON DAY 68 OF STUDY | | | | | | | | | | | |
| 13805 | 1.31 | 1.20 | 1.26 | 0.19 | 0.11 | 0.15 | 0.26 | 0.16 | 0.21 | 46.6 | 41.0 | 43.8 |
| 13806 | 1.45 | 1.41 | 1.43 | 0.12 | 0.14 | 0.13 | 0.13 | 0.14 | 0.14 | 32.1 | 31.4 | 31.8 |
| 13807 | 1.27 | 1.23 | 1.25 | 0.09 | 0.06 | 0.08 | 0.07 | 0.07 | 0.07 | a | a | a |
| 13808 | 1.45 | 1.63 | 1.54 | 0.18 | 0.21 | 0.20 | 0.22 | 0.28 | 0.25 | 40.9 | 39.8 | 40.4 |
| 13809 | 1.40 | 1.41 | 1.40 | 0.14 | 0.12 | 0.13 | 0.11 | 0.13 | 0.12 | 35.9 | 33.8 | 34.8 |
| 13810 | 1.47 | 1.40 | 1.44 | 0.17 | 0.17 | 0.17 | 0.21 | 0.25 | 0.23 | 43.4 | 43.1 | 43.2 |
| 13811 | NOT PREGNANT | | | | | | | | | | | |
| 13812 | 1.36 | 1.29 | 1.32 | 0.11 | 0.10 | 0.10 | 0.08 | 0.14 | 0.11 | 43.2 | 40.1 | 41.6 |
| 13813 | 1.38 | 1.48 | 1.43 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 43.9 | 44.0 | 44.0 |
| 13814 | 1.38 | 1.33 | 1.36 | 0.13 | 0.08 | 0.10 | 0.15 | 0.15 | 0.15 | 38.8 | 32.5 | 35.6 |
| 13815 | 1.36 | 1.34 | 1.35 | 0.05 | 0.05 | 0.05 | 0.13 | 0.08 | 0.10 | 33.8 | 28.4 | 31.1 |
| 13816 | 1.20 | 1.16 | 1.18 | 0.17 | 0.14 | 0.16 | 0.13 | 0.12 | 0.12 | 32.8 | 27.3 | 30.0 |
| 13817 | 1.59 | 1.54 | 1.56 | 0.14 | 0.13 | 0.14 | 0.12 | 0.13 | 0.12 | 37.9 | 36.7 | 37.3 |
| 13818 | 1.30 | 1.25 | 1.28 | 0.08 | 0.06 | 0.07 | 0.09 | 0.08 | 0.08 | 25.8 | 26.5 | 26.2 |
| 13819 | 1.38 | 1.35 | 1.36 | 0.20 | 0.12 | 0.16 | 0.18 | 0.26 | 0.22 | 30.6 | 27.8 | 29.2 |
| 13820 | 1.43 | 1.26 | 1.34 | 0.12 | 0.08 | 0.10 | 0.18 | 0.17 | 0.18 | 26.1 | 21.8 | 24.0 |
| 13821 | 1.45 | 1.41 | 1.43 | 0.07 | 0.17 | 0.12 | 0.11 | 0.18 | 0.14 | 35.0 | 39.6 | 37.3 |
| 13822 | SACRIFICED ON DAY 8 OF LACTATION | | | | | | | | | | | |
| 13823 | 1.51 | 1.49 | 1.50 | 0.34 | 0.22 | 0.28 | 0.28 | 0.25 | 0.26 | 52.0 | 51.3 | 51.6 |
| 13824 | 1.48 | 1.41 | 1.44 | 0.14 | 0.11 | 0.12 | 0.16 | 0.16 | 0.16 | 38.4 | 38.8 | 38.6 |
| 13825 | ---- | 1.37 | 1.37 | ---- | 0.07 | 0.07 | ---- | 0.10 | 0.10 | ---- | 32.7 | 32.7 |
| 13826 | 1.36 | 1.25 | 1.30 | 0.14 | 0.14 | 0.14 | 0.13 | 0.12 | 0.12 | 31.8 | 23.6 | 27.7 |
| 13827 | 1.57 | 1.56 | 1.56 | 0.17 | 0.20 | 0.18 | 0.15 | 0.13 | 0.14 | 42.5 | 37.5 | 40.0 |
| 13828 | 1.39 | 1.45 | 1.42 | 0.25 | 0.16 | 0.20 | 0.18 | 0.12 | 0.15 | 42.2 | 39.6 | 40.9 |
| 13829 | 1.51 | 1.27 | 1.39 | 0.15 | 0.13 | 0.14 | 0.17 | 0.15 | 0.16 | 42.0 | 32.8 | 37.4 |
| 13830 | 1.38 | 1.44 | 1.41 | 0.11 | 0.10 | 0.10 | 0.14 | 0.20 | 0.17 | 35.0 | 36.9 | 36.0 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Pup's identification was not recorded; therefore, terminal body weight could not be determined.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C41 (PAGE 2): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP II 1 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 13831 | 1.47 | 1.47 | 1.47 | 0.11 | 0.14 | 0.12 | 0.12 | 0.13 | 0.12 | 33.1 | 36.7 | 34.9 |
| 13832 | 1.65 | 1.49 | 1.57 | 0.15 | 0.12 | 0.14 | 0.14 | 0.17 | 0.16 | 45.2 | 35.5 | 40.4 |
| 13833 | 1.51 | 1.49 | 1.50 | 0.12 | 0.12 | 0.12 | 0.17 | 0.19 | 0.18 | a | a | a |
| 13834 | 1.52 | 1.47 | 1.50 | 0.07 | 0.08 | 0.08 | 0.18 | 0.12 | 0.15 | 36.2 | 37.7 | 37.0 |
| 13835 | 1.52 | 1.44 | 1.48 | 0.10 | 0.14 | 0.12 | 0.11 | 0.17 | 0.14 | 36.7 | 37.3 | 37.0 |
| 13836 | MORIBUND SACRIFICED ON DAY 59 OF STUDY | | | | | | | | | | | |
| 13837 | 1.66 | 1.49 | 1.58 | 0.19 | 0.17 | 0.18 | 0.26 | 0.22 | 0.24 | a | a | a |
| 13838 | 1.45 | 1.40 | 1.42 | 0.11 | 0.09 | 0.10 | 0.16 | 0.12 | 0.14 | 36.0 | 36.0 | 36.0 |
| 13839 | 1.42 | 1.45 | 1.44 | 0.14 | 0.13 | 0.14 | 0.17 | 0.10 | 0.14 | 36.1 | 32.7 | 34.4 |
| 13840 | NOT PREGNANT | | | | | | | | | | | |
| 13841 | 1.34 | 1.33 | 1.34 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 36.3 | 37.0 | 36.6 |
| 13842 | 1.49 | 1.40 | 1.44 | 0.17 | 0.12 | 0.14 | 0.14 | 0.19 | 0.16 | 43.4 | 37.7 | 40.6 |
| 13843 | 1.33 | 1.29 | 1.31 | 0.11 | 0.11 | 0.11 | 0.13 | 0.13 | 0.13 | 34.3 | 30.1 | 32.2 |
| 13844 | 1.39 | 1.29 | 1.34 | 0.12 | 0.06 | 0.09 | 0.15 | 0.12 | 0.14 | 33.6 | 27.8 | 30.7 |
| 13845 | 1.43 | 1.49 | 1.46 | 0.11 | 0.16 | 0.14 | 0.13 | 0.16 | 0.14 | a | a | a |
| 13846 | 1.41 | 1.45 | 1.43 | 0.16 | 0.08 | 0.12 | 0.17 | 0.17 | 0.17 | 36.3 | 31.0 | 33.6 |
| 13847 | 1.53 | 1.49 | 1.51 | 0.21 | 0.21 | 0.21 | 0.21 | 0.24 | 0.22 | 51.4 | 50.4 | 50.9 |
| 13848 | 1.32 | 1.34 | 1.33 | 0.11 | 0.04 | 0.08 | 0.15 | 0.15 | 0.15 | a | a | a |
| 13849 | 1.30 | 1.28 | 1.29 | 0.06 | 0.07 | 0.06 | 0.08 | 0.07 | 0.08 | 27.5 | 23.6 | 25.6 |
| 13850 | 1.56 | 1.42 | 1.49 | 0.13 | 0.14 | 0.14 | 0.17 | 0.16 | 0.16 | 37.3 | 33.8 | 35.6 |
| 13851 | NOT PREGNANT | | | | | | | | | | | |
| 13852 | SACRIFICED ON DAY 11 OF LACTATION | | | | | | | | | | | |
| 13853 | 1.53 | 1.40 | 1.46 | 0.13 | 0.14 | 0.14 | 0.17 | 0.14 | 0.16 | 37.8 | 27.5 | 32.6 |
| 13854 | 1.11 | 1.10 | 1.10 | 0.15 | 0.04 | 0.10 | 0.18 | 0.05 | 0.12 | 30.1 | 23.8 | 27.0 |
| 13855 | 1.53 | 1.53 | 1.53 | 0.08 | 0.08 | 0.08 | 0.20 | 0.18 | 0.19 | 40.2 | 37.0 | 38.6 |
| 13856 | 1.40 | 1.30 | 1.35 | 0.10 | 0.07 | 0.08 | 0.10 | 0.07 | 0.08 | 32.9 | 25.6 | 29.2 |
| 13857 | 1.45 | 1.54 | 1.50 | 0.06 | 0.15 | 0.10 | 0.22 | 0.25 | 0.24 | 39.6 | 41.8 | 40.7 |
| 13858 | 1.36 | 1.36 | 1.36 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 33.2 | 30.7 | 32.0 |
| 13859 | 1.52 | 1.50 | 1.51 | 0.18 | 0.17 | 0.18 | 0.16 | 0.20 | 0.18 | 37.4 | 40.7 | 39.0 |
| 13860 | 1.44 | 1.37 | 1.40 | 0.10 | 0.10 | 0.10 | 0.19 | 0.18 | 0.19 | 35.4 | 38.7 | 37.0 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Pup's identification was not recorded or appeared incorrectly recorded; therefore, terminal body weight could not be determined.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C41 (PAGE 3): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP III 3 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 13861 | 1.34 | ---- | 1.34 | 0.08 | ---- | 0.08 | 0.04 | ---- | 0.04 | 36.2 | ---- | 36.2 |
| 13862 | PREGNANT; DID NOT DELIVER A LITTER | | | | | | | | | | | |
| 13863 | 1.36 | 1.43 | 1.40 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 32.5 | 34.6 | 33.6 |
| 13864 | 1.50 | ---- | 1.50 | 0.28 | ---- | 0.28 | 0.23 | ---- | 0.23 | 59.3 | ---- | 59.3 |
| 13865 | 1.48 | 1.42 | 1.45 | 0.12 | 0.14 | 0.13 | 0.08 | 0.14 | 0.11 | 30.4 | 28.6 | 29.5 |
| 13866 | 1.28 | 1.13 | 1.20 | 0.12 | 0.06 | 0.09 | 0.11 | 0.11 | 0.11 | a | a | a |
| 13867 | 1.34 | 1.28 | 1.31 | 0.05 | 0.12 | 0.08 | 0.10 | 0.12 | 0.11 | 29.9 | 28.2 | 29.0 |
| 13868 | 1.41 | 1.45 | 1.43 | 0.08 | 0.11 | 0.10 | 0.13 | 0.15 | 0.14 | a | a | a |
| 13869 | 1.23 | 1.35 | 1.29 | 0.09 | 0.10 | 0.10 | 0.07 | 0.10 | 0.08 | 33.7 | 29.8 | 31.8 |
| 13870 | ---- | 1.25 | 1.25 | ---- | 0.10 | 0.10 | ---- | 0.15 | 0.15 | ---- | 36.3 | 36.3 |
| 13871 | 1.12 | 1.25 | 1.18 | 0.02 | 0.08 | 0.05 | 0.08 | 0.08 | 0.08 | 26.8 | 29.1 | 28.0 |
| 13872 | 1.44 | 1.41 | 1.42 | 0.09 | 0.10 | 0.10 | 0.10 | 0.15 | 0.12 | 29.8 | 30.0 | 29.9 |
| 13873 | 1.40 | 1.40 | 1.40 | 0.10 | 0.12 | 0.11 | 0.15 | 0.15 | 0.15 | 35.3 | 35.6 | 35.4 |
| 13874 | 1.63 | 1.40 | 1.52 | 0.22 | 0.16 | 0.19 | 0.15 | 0.18 | 0.16 | 49.1 | 43.4 | 46.2 |
| 13875 | 1.48 | 1.43 | 1.46 | 0.13 | 0.13 | 0.13 | 0.14 | 0.08 | 0.11 | 40.1 | 42.9 | 41.5 |
| 13876 | 1.59 | 1.62 | 1.60 | 0.11 | 0.23 | 0.17 | 0.15 | 0.06 | 0.10 | 45.3 | 47.0 | 46.2 |
| 13877 | 1.51 | 1.55 | 1.53 | 0.16 | 0.14 | 0.15 | 0.22 | 0.18 | 0.20 | 45.8 | 42.5 | 44.2 |
| 13878 | ---- | 1.54 | 1.54 | ---- | 0.23 | 0.23 | ---- | 0.20 | 0.20 | ---- | 51.8 | 51.8 |
| 13879 | 1.64 | 1.53 | 1.58 | 0.10 | 0.19 | 0.14 | 0.16 | 0.24 | 0.20 | 46.1 | 47.7 | 46.9 |
| 13880 | 1.58 | 1.39 | 1.48 | 0.19 | 0.16 | 0.18 | 0.21 | 0.15 | 0.18 | 52.8 | 42.9 | 47.8 |
| 13881 | 1.45 | 1.39 | 1.42 | 0.06 | 0.07 | 0.06 | 0.11 | 0.08 | 0.10 | 37.7 | 37.2 | 37.4 |
| 13882 | 1.45 | 1.50 | 1.48 | 0.10 | 0.13 | 0.12 | 0.11 | 0.12 | 0.12 | 37.6 | 44.5 | 41.0 |
| 13883 | 1.47 | 1.39 | 1.43 | 0.19 | 0.13 | 0.16 | 0.22 | 0.18 | 0.20 | 43.6 | 48.0 | 45.8 |
| 13884 | 1.51 | 1.31 | 1.41 | 0.21 | 0.08 | 0.14 | 0.18 | 0.15 | 0.16 | 42.3 | 27.4 | 34.8 |
| 13885 | b | | | | | | | | | | | |
| 13886 | 1.47 | 1.45 | 1.46 | 0.12 | 0.12 | 0.12 | 0.15 | 0.15 | 0.15 | 40.3 | 40.6 | 40.4 |
| 13887 | 1.62 | 1.55 | 1.58 | 0.18 | 0.18 | 0.18 | 0.24 | 0.20 | 0.22 | 49.9 | 45.3 | 47.6 |
| 13888 | ---- | 1.31 | 1.31 | ---- | 0.15 | 0.15 | ---- | 0.09 | 0.09 | ---- | 25.9 | 25.9 |
| 13889 | 1.53 | 1.32 | 1.42 | 0.15 | 0.10 | 0.12 | 0.16 | 0.13 | 0.14 | 35.8 | 32.1 | 34.0 |
| 13890 | ---- | 1.37 | 1.37 | ---- | 0.06 | 0.06 | ---- | 0.17 | 0.17 | ---- | 38.8 | 38.8 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Pup's identification was not recorded; therefore, terminal body weight could not be determined.
b. All pups were selected for continued observation.

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TABLE C41 (PAGE 4): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP IV 10 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 13891 | 1.60 | 1.53 | 1.56 | 0.17 | 0.26 | 0.22 | 0.17 | 0.22 | 0.20 | 47.8 | 44.1 | 46.0 |
| 13892 | 1.44 | 1.51 | 1.48 | 0.19 | 0.13 | 0.16 | 0.19 | 0.15 | 0.17 | 38.7 | 36.7 | 37.7 |
| 13893 | 1.52 | 1.37 | 1.44 | 0.17 | 0.13 | 0.15 | 0.22 | 0.16 | 0.19 | 46.1 | 37.0 | 41.6 |
| 13894 | 1.40 | 1.41 | 1.40 | 0.10 | 0.16 | 0.13 | 0.17 | 0.20 | 0.18 | 34.9 | 34.5 | 34.7 |
| 13895 | 1.54 | 1.39 | 1.46 | 0.16 | 0.19 | 0.18 | 0.22 | 0.14 | 0.18 | 41.3 | 40.0 | 40.6 |
| 13896 | 1.52 | 1.46 | 1.49 | 0.12 | 0.13 | 0.12 | 0.13 | 0.14 | 0.14 | a | a | a |
| 13897 | 1.44 | 1.36 | 1.40 | 0.16 | 0.14 | 0.15 | 0.27 | 0.26 | 0.26 | 44.4 | 42.2 | 43.3 |
| 13898 | 1.37 | 1.28 | 1.32 | 0.10 | 0.06 | 0.08 | 0.11 | 0.10 | 0.10 | 33.6 | 29.0 | 31.3 |
| 13899 | 1.33 | 1.30 | 1.32 | 0.07 | 0.11 | 0.09 | 0.20 | 0.15 | 0.18 | 32.4 | 31.7 | 32.0 |
| 13900 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | |
| 13901 | 1.36 | 1.28 | 1.32 | 0.07 | 0.07 | 0.07 | 0.08 | 0.06 | 0.07 | 30.6 | 27.6 | 29.1 |
| 13902 | 1.60 | 1.49 | 1.54 | 0.19 | 0.17 | 0.18 | 0.16 | 0.21 | 0.18 | 43.3 | 37.9 | 40.6 |
| 13903 | 1.43 | 1.38 | 1.40 | 0.15 | 0.13 | 0.14 | 0.20 | 0.14 | 0.17 | 40.4 | 32.4 | 36.4 |
| 13904 | 1.27 | 1.30 | 1.28 | 0.11 | 0.13 | 0.12 | 0.12 | 0.14 | 0.13 | 28.1 | 30.3 | 29.2 |
| 13905 | 1.32 | 1.13 | 1.22 | 0.05 | 0.07 | 0.06 | 0.10 | 0.09 | 0.10 | 29.2 | 33.5 | 31.4 |
| 13906 | 1.53 | 1.41 | 1.47 | 0.18 | 0.23 | 0.20 | 0.20 | 0.24 | 0.22 | a | a | a |
| 13907 | 1.20 | 1.29 | 1.24 | 0.12 | 0.10 | 0.11 | 0.10 | 0.12 | 0.11 | 23.2 | 26.9 | 25.0 |
| 13908 | b | | | | | | | | | | | |
| 13909 | 1.50 | 1.43 | 1.46 | 0.12 | 0.10 | 0.11 | 0.14 | 0.11 | 0.12 | 39.8 | 38.4 | 39.1 |
| 13910 | 1.42 | 1.39 | 1.40 | 0.17 | 0.14 | 0.16 | 0.18 | 0.16 | 0.17 | 39.5 | 38.0 | 38.8 |
| 13911 | 1.44 | 1.47 | 1.46 | 0.10 | 0.14 | 0.12 | 0.23 | 0.23 | 0.23 | 43.3 | 40.7 | 42.0 |
| 13912 | 1.49 | 1.41 | 1.45 | 0.13 | 0.16 | 0.14 | 0.18 | 0.15 | 0.16 | a | a | a |
| 13913 | 1.44 | 1.25 | 1.34 | 0.20 | 0.19 | 0.20 | 0.27 | 0.23 | 0.25 | 43.2 | 37.2 | 40.2 |
| 13914 | 1.43 | 1.41 | 1.42 | 0.09 | 0.10 | 0.10 | 0.18 | 0.13 | 0.16 | a | a | a |
| 13915 | 1.30 | 1.31 | 1.30 | 0.08 | 0.10 | 0.09 | 0.13 | 0.15 | 0.14 | 31.8 | 34.9 | 33.4 |
| 13916 | 1.32 | 1.54 | 1.43 | 0.18 | 0.20 | 0.19 | 0.22 | 0.20 | 0.21 | 43.2 | 40.2 | 41.7 |
| 13917 | 1.42 | 1.40 | 1.41 | 0.12 | 0.13 | 0.12 | 0.16 | 0.17 | 0.16 | 41.3 | 40.8 | 41.0 |
| 13918 | 1.62 | 1.37 | 1.50 | 0.26 | 0.16 | 0.21 | 0.19 | 0.15 | 0.17 | 45.3 | 39.1 | 42.2 |
| 13919 | 1.48 | 1.49 | 1.48 | 0.08 | 0.12 | 0.10 | 0.11 | 0.09 | 0.10 | 38.4 | 37.4 | 37.9 |
| 13920 | 1.12 | 1.38 | 1.25 | 0.12 | 0.12 | 0.12 | 0.23 | 0.19 | 0.21 | 26.9 | 23.7 | 25.3 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Pup's identification was not recorded or appeared incorrectly recorded; therefore, terminal body weight could not be determined.
b. All pups were selected for continued observation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE C41 (PAGE 5): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP V 30 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 13921 | 1.53 | 1.49 | 1.51 | 0.16 | 0.14 | 0.15 | 0.18 | 0.10 | 0.14 | 46.1 | 40.6 | 43.4 |
| 13922 | 1.29 | ---- | 1.29 | 0.12 | ---- | 0.12 | 0.10 | ---- | 0.10 | 32.8 | ---- | 32.8 |
| 13923 | 1.52 | 1.41 | 1.46 | 0.10 | 0.09 | 0.10 | 0.15 | 0.13 | 0.14 | a | a | a |
| 13924 | 1.49 | 1.43 | 1.46 | 0.09 | 0.08 | 0.08 | 0.14 | 0.15 | 0.14 | 34.5 | 34.3 | 34.4 |
| 13925 | 1.35 | 1.40 | 1.38 | 0.11 | 0.13 | 0.12 | 0.16 | 0.17 | 0.16 | 32.9 | 38.2 | 35.6 |
| 13926 | 1.39 | 1.35 | 1.37 | 0.11 | 0.12 | 0.12 | 0.16 | 0.16 | 0.16 | 34.0 | 31.2 | 32.6 |
| 13927 | 1.19 | 1.16 | 1.18 | 0.06 | 0.07 | 0.06 | 0.07 | 0.06 | 0.06 | 23.9 | 22.5 | 23.2 |
| 13928 | 1.46 | 1.39 | 1.42 | 0.16 | 0.18 | 0.17 | 0.20 | 0.18 | 0.19 | a | a | a |
| 13929 | NOT PREGNANT | | | | | | | | | | | |
| 13930 | 1.28 | 1.33 | 1.30 | 0.08 | 0.10 | 0.09 | 0.06 | 0.06 | 0.06 | 25.3 | 20.5 | 22.9 |
| 13931 | 1.13 | 1.15 | 1.14 | 0.07 | 0.07 | 0.07 | 0.09 | 0.10 | 0.10 | 24.9 | 24.9 | 24.9 |
| 13932 | 1.32 | 1.30 | 1.31 | 0.11 | 0.14 | 0.12 | 0.05 | 0.12 | 0.08 | 31.5 | 32.7 | 32.1 |
| 13933 | 1.17 | 1.19 | 1.18 | 0.06 | 0.10 | 0.08 | 0.06 | 0.08 | 0.07 | a | a | a |
| 13934 | ---- | 1.26 | 1.26 | ---- | 0.12 | 0.12 | ---- | 0.15 | 0.15 | ---- | 30.6 | 30.6 |
| 13935 | 1.33 | 1.30 | 1.32 | 0.05 | 0.07 | 0.06 | 0.11 | 0.08 | 0.10 | 34.3 | 21.5 | 27.9 |
| 13936 | 1.42 | 1.48 | 1.45 | 0.15 | 0.15 | 0.15 | 0.13 | 0.19 | 0.16 | 38.0 | 35.2 | 36.6 |
| 13937 | 1.43 | 1.40 | 1.42 | 0.11 | 0.13 | 0.12 | 0.12 | 0.11 | 0.12 | 39.0 | 38.6 | 38.8 |
| 13938 | 1.32 | 1.21 | 1.26 | 0.09 | 0.06 | 0.08 | 0.14 | 0.11 | 0.12 | 29.2 | 26.4 | 27.8 |
| 13939 | 1.51 | 1.46 | 1.48 | 0.16 | 0.15 | 0.16 | 0.14 | 0.23 | 0.18 | 38.4 | 42.0 | 40.2 |
| 13940 | 1.29 | 1.22 | 1.26 | 0.04 | 0.06 | 0.05 | 0.04 | 0.07 | 0.06 | 30.0 | 26.8 | 28.4 |
| 13941 | 1.59 | 1.52 | 1.56 | 0.19 | 0.13 | 0.16 | 0.18 | 0.13 | 0.16 | 41.4 | 31.9 | 36.6 |
| 13942 | 1.58 | 1.41 | 1.50 | 0.18 | 0.15 | 0.16 | 0.14 | 0.12 | 0.13 | a | a | a |
| 13943 | ---- | 1.56 | 1.56 | ---- | 0.24 | 0.24 | ---- | 0.20 | 0.20 | ---- | a | a |
| 13944 | 1.39 | 1.35 | 1.37 | 0.13 | 0.12 | 0.12 | 0.16 | 0.18 | 0.17 | 35.1 | 34.7 | 34.9 |
| 13945 | 1.41 | 1.35 | 1.38 | 0.09 | 0.11 | 0.10 | 0.12 | 0.14 | 0.13 | a | a | a |
| 13946 | 1.35 | 1.26 | 1.30 | 0.11 | 0.14 | 0.12 | 0.16 | 0.17 | 0.16 | 43.2 | 42.3 | 42.8 |
| 13947 | SACRIFICED DUE TO NO SURVIVING PUPS ON DAY 1 OF LACTATION | | | | | | | | | | | |
| 13948 | 1.46 | 1.38 | 1.42 | 0.14 | 0.14 | 0.14 | 0.18 | 0.15 | 0.16 | 43.4 | 42.4 | 42.9 |
| 13949 | 1.52 | 1.45 | 1.48 | 0.12 | 0.12 | 0.12 | 0.19 | 0.18 | 0.18 | 40.9 | 38.3 | 39.6 |
| 13950 | 1.64 | 1.48 | 1.56 | 0.18 | 0.17 | 0.18 | 0.28 | 0.21 | 0.24 | 47.4 | 42.0 | 44.7 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Pup's identification was not recorded or appeared incorrectly recorded; therefore, terminal body weight could not be determined.

# APPENDIX D

# REPORT TABLES - F1 GENERATION MALE RATS

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D1 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| MAXIMUM POSSIBLE INCIDENCE | 4563/ 60 | 4547/ 60 | 4576/ 60 | 4602/ 60 | 4473/ 60 |
| MORTALITY | 3 | 3 | 3 | 2 | 7 |
| FOUND DEAD a | 2 | 3 | 3 | 1 | 6 |
| MORIBUND SACRIFICED a | 1 | 0 | 0 | 1 | 1 |
| ANNULAR CONSTRICTION OF THE TAIL | 44/ 4 | 122/ 11* | 69/ 7 | 122/ 11* | 214/ 21** |
| CHROMORHINORRHEA | 12/ 9 | 18/ 9 | 22/ 11 | 10/ 4 | 26/ 12 |
| ABDOMINAL DISTENTION | 25/ 4 | 41/ 4 | 11/ 1 | 73/ 5 | 124/ 10** |
| URINE-STAINED ABDOMINAL FUR | 11/ 1 | 2/ 2 | 13/ 1 | 6/ 1 | 40/ 9** |
| EMACIATION | 0/ 0 | 1/ 1 | 2/ 2 | 15/ 3* | 22/ 7** |
| CHROMODACRYORRHEA | 22/ 3 | 53/ 5 | 244/ 9 | 55/ 4 | 171/ 6 |
| DECREASED MOTOR ACTIVITY | 1/ 1 | 1/ 1 | 0/ 0 | 1/ 1 | 12/ 5** |
| COLD TO TOUCH | 1/ 1 | 1/ 1 | 1/ 1 | 13/ 2 | 11/ 5 |
| INCISORS: TOTAL | 47/ 5 | 62/ 3 | 258/ 9 | 171/ 5 | 188/ 4 |
| MISALIGNED | 12/ 3 | 62/ 3 | 194/ 7 | 123/ 3 | 181/ 4 |
| MISSING/BROKEN | 36/ 4 | 0/ 0 | 66/ 4 | 48/ 2 | 25/ 2 |
| SCAB b | 89/ 4 | 30/ 2 | 55/ 5 | 18/ 3 | 7/ 3 |
| SOFT OR LIQUID FECES | 22/ 11 | 14/ 11 | 6/ 5 | 7/ 7 | 3/ 3 |

MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Refer to the individual clinical observations table (Table D14) for observations for rats that were found dead or moribund sacrificed.
b. Located on neck, head, back, mouth, and behind left ear.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D1 (PAGE 2): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| MAXIMUM POSSIBLE INCIDENCE | 4563/ 60 | 4547/ 60 | 4576/ 60 | 4602/ 60 | 4473/ 60 |
| MORTALITY | 3 | 3 | 3 | 2 | 7 |
| FOUND DEAD a | 2 | 3 | 3 | 1 | 6 |
| MORIBUND SACRIFICED a | 1 | 0 | 0 | 1 | 1 |
| LOCALIZED ALOPECIA: TOTAL | 30/ 1 | 56/ 1 | 36/ 3 | 10/ 1 | 7/ 2 |
| LIMBS | 30/ 1 | 56/ 1 | 31/ 1 | 0/ 0 | 7/ 2 |
| BACK | 0/ 0 | 0/ 0 | 3/ 1 | 10/ 1 | 0/ 0 |
| HEAD | 0/ 0 | 0/ 0 | 2/ 1 | 0/ 0 | 0/ 0 |
| RIGHT OR BOTH EYE(S): CORNEAL OPACITY | 0/ 0 | 14/ 1 | 0/ 0 | 0/ 0 | 2/ 2 |
| RALES | 1/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 2/ 2 |
| DEHYDRATION | 0/ 0 | 0/ 0 | 0/ 0 | 19/ 2 | 14/ 1 |
| LACRIMATION | 0/ 0 | 0/ 0 | 34/ 1 | 0/ 0 | 6/ 1 |
| RIGHT EYE: SWOLLEN | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 6/ 1 |
| SNOUT: SWOLLEN | 3/ 1 | 2/ 1 | 32/ 2 | 6/ 1 | 4/ 1 |
| PENIS: RED SUBSTANCE | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 | 4/ 1 |
| EXCESS SALIVATION | 4/ 4 | 2/ 2 | 3/ 3 | 1/ 1 | 1/ 1 |
| RED, DRIED, SLIGHT PERINASAL SUBSTANCE | 0/ 0 | 0/ 0 | 3/ 2 | 1/ 1 | 1/ 1 |
| VOCALIZATION | 1/ 1 | 1/ 1 | 0/ 0 | 0/ 0 | 1/ 1 |
| BOTH EARS: SWOLLEN | 0/ 0 | 0/ 0 | 8/ 3 | 2/ 2 | 0/ 0 |

MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Refer to the individual clinical observations table (Table D14) for observations for rats that were found dead or moribund sacrificed.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D1 (PAGE 3): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| MAXIMUM POSSIBLE INCIDENCE | 4563/ 60 | 4547/ 60 | 4576/ 60 | 4602/ 60 | 4473/ 60 |
| MORTALITY | 3 | 3 | 3 | 2 | 7 |
| FOUND DEAD a | 2 | 3 | 3 | 1 | 6 |
| MORIBUND SACRIFICED a | 1 | 0 | 0 | 1 | 1 |
| TIP OF TAIL MISSING | 0/ 0 | 0/ 0 | 0/ 0 | 21/ 1 | 0/ 0 |
| TIP OF TAIL BLACK | 0/ 0 | 0/ 0 | 0/ 0 | 9/ 1 | 0/ 0 |
| BACK: ULCERATION | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 | 0/ 0 |
| RED, SLIGHT PERIORAL SUBSTANCE | 0/ 0 | 0/ 0 | 1/ 1 | 0/ 0 | 0/ 0 |
| PTOSIS | 0/ 0 | 20/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| ENOPHTHALMOS | 0/ 0 | 2/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| HEAD: ABRASION | 18/ 2 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| RIGHT EYE: ENLARGED | 102/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Refer to the individual clinical observations table (Table D14) for observations for rats that were found dead or moribund sacrificed.



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PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D2 (PAGE 1): BODY WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| BODY WEIGHT (G) | | | | | | |
| DAY 1 | MEAN±S.D. | 42.7 ± 6.9 | 41.0 ± 6.8 | 43.8 ± 9.7 | 44.6 ± 6.6 | 40.4 ± 8.4 |
| DAY 8 | MEAN±S.D. | 75.2 ± 11.7 [ 59]a | 72.3 ± 9.8 [ 58]a | 77.3 ± 15.2 [ 58]a | 76.4 ± 10.9 [ 59]a | 69.6 ± 12.7* [ 55]a |
| DAY 15 | MEAN±S.D. | 124.1 ± 15.9 [ 59]a | 118.8 ± 13.3 [ 58]a | 126.9 ± 20.7 [ 57]a | 122.6 ± 15.8 [ 59]a | 109.2 ± 17.6** [ 55]a |
| DAY 22 | MEAN±S.D. | 183.9 ± 20.4 [ 59]a | 175.6 ± 17.9 [ 58]a | 186.6 ± 26.0 [ 57]a | 181.4 ± 21.8 [ 59]a | 162.7 ± 20.4** [ 55]a |
| DAY 29 | MEAN±S.D. | 241.0 ± 23.1 [ 58]a | 231.6 ± 21.0 [ 58]a | 243.2 ± 29.4 [ 57]a | 233.0 ± 27.6 [ 59]a | 211.1 ± 25.2** [ 55]a |
| DAY 36 | MEAN±S.D. | 297.9 ± 27.7 [ 47]a | 288.2 ± 28.3 [ 54]a | 299.7 ± 29.7 [ 51]a | 280.1 ± 40.0* [ 49]a | 250.8 ± 33.4** [ 48]a |
| DAY 43 | MEAN±S.D. | 342.4 ± 28.8 [ 30]a | 327.8 ± 25.9 [ 30]a | 335.7 ± 30.1 [ 31]a | 323.6 ± 34.0* [ 30]a | 291.3 ± 32.5** [ 30]a |
| DAY 50 | MEAN±S.D. | 383.2 ± 33.7 [ 30]a | 359.7 ± 26.8* [ 29]a | 369.7 ± 31.9 [ 31]a | 355.3 ± 40.2** [ 30]a | 318.3 ± 35.3** [ 30]a |

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D2 (PAGE 2): BODY WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 30a | 29a | 30a | 30a | 30a |
| BODY WEIGHT (G) | | | | | | |
| DAY 57 | MEAN±S.D. | 412.5 ± 36.4 | 387.8 ± 28.8* | 398.7 ± 33.0 | 380.1 ± 43.8** | 338.5 ± 36.7** |
| DAY 64 | MEAN±S.D. | 443.9 ± 40.9 | 416.4 ± 32.8* | 424.1 ± 34.8 | 404.5 ± 49.3** | 360.2 ± 39.4** |
| DAY 70b | MEAN±S.D. | 463.7 ± 44.2 | 434.6 ± 39.2* | 442.2 ± 36.6 | 420.9 ± 51.1** | 372.7 ± 40.7** |
| PRECOHABITATION c | MEAN±S.D. | 488.1 ± 46.5 | 463.3 ± 46.4 | 468.2 ± 39.9 | 443.8 ± 53.9** | 391.0 ± 42.0** |
| DAY 99d | MEAN±S.D. | 521.9 ± 54.0 | 493.0 ± 49.4* | 497.4 ± 40.9 | 469.5 ± 57.5** | 409.8 ± 41.1** |
| DAY 106 | MEAN±S.D. | 539.0 ± 55.5 | 504.6 ± 52.0* | 506.9 ± 45.4* | 481.8 ± 60.8** | 416.1 ± 48.0** |
| DAY 113 | MEAN±S.D. | 554.8 ± 57.6 [ 28]a | 513.4 ± 53.6* | 512.3 ± 49.0* | 488.7 ± 61.0** | 428.0 ± 40.1** [ 29]a |

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
b. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
c. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.
d. First weekly value recorded after cohabitation.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D3 (PAGE 1): BODY WEIGHT CHANGES - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 59a | 58a | 58a | 59a | 55a |
| BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | +32.3 ± 7.0 | +30.9 ± 5.4 | +33.0 ± 7.1 | +31.8 ± 5.9 | +27.9 ± 6.4** |
| DAYS 8 - 15 | MEAN±S.D. | +48.9 ± 7.6 | +46.5 ± 5.0 | +49.2 ± 6.9 [ 57]a | +46.2 ± 6.6* | +39.6 ± 6.6** |
| DAYS 15 - 22 | MEAN±S.D. | +59.8 ± 6.0 | +56.8 ± 7.0* | +59.7 ± 7.1 [ 57]a | +58.8 ± 8.2 | +53.5 ± 5.3** |
| DAYS 22 - 29 | MEAN±S.D. | +56.5 ± 6.1 [ 58]a | +55.9 ± 5.2 | +56.6 ± 5.6 [ 57]a | +51.7 ± 10.1** | +48.4 ± 12.6** |
| DAYS 29 - 36 | MEAN±S.D. | +56.8 ± 6.8 [ 47]a | +57.0 ± 17.0 [ 54]a | +56.5 ± 6.5 [ 51]a | +47.9 ± 20.9** [ 49]a | +40.7 ± 13.2** [ 48]a |
| DAYS 36 - 43 | MEAN±S.D. | +42.7 ± 9.5 [ 30]a | +39.8 ± 19.1 [ 30]a | +39.1 ± 8.3 [ 31]a | +38.1 ± 8.3 [ 30]a | +35.4 ± 7.7** [ 30]a |
| DAYS 43 - 50 | MEAN±S.D. | +40.8 ± 9.8 [ 30]a | +33.0 ± 6.3** [ 29]a | +34.0 ± 8.1** [ 31]a | +31.7 ± 9.2** [ 30]a | +27.0 ± 9.6** [ 30]a |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).



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PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D3 (PAGE 2): BODY WEIGHT CHANGES - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 30a | 29a | 30a | 30a | 30a |
| BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 50 - 57 | MEAN±S.D. | +29.3 ± 8.0 | +28.1 ± 6.2 | +27.3 ± 13.1 | +24.8 ± 7.3* | +20.2 ± 9.1** |
| DAYS 57 - 64 | MEAN±S.D. | +31.4 ± 8.3 | +28.6 ± 6.8 | +25.3 ± 6.4* | +24.4 ± 12.3 | +21.7 ± 6.6** |
| DAYS 64 - 70b | MEAN±S.D. | +19.8 ± 6.2 | +18.3 ± 9.1 | +18.2 ± 5.3 | +16.4 ± 8.2 | +12.5 ± 6.8** |
| DAY 1 - PRECOHABITATION | MEAN±S.D. | +445.1 ± 44.1 | +422.3 ± 44.5 | +423.5 ± 38.9 | +399.7 ± 50.8** | +350.5 ± 39.1** |
| DAYS 99c-106 | MEAN±S.D. | +17.1 ± 33.5 | +11.6 ± 8.3 | +9.6 ± 12.4 | +12.2 ± 9.4 | +6.3 ± 26.5 |
| DAYS 106- 113 | MEAN±S.D. | +10.1 ± 37.3 [ 28]a | +8.8 ± 10.0 | +5.4 ± 15.6 | +7.0 ± 8.1 | +7.3 ± 10.8 [ 29]a |
| DAYS 1 -113 | MEAN±S.D. | +511.6± 55.0 [ 28]a | +472.5± 52.3** | +467.6± 49.6** | +444.6± 58.3** | +387.8± 37.4** [ 29]a |

DAY(S) = DAY(S) POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.
c. First weekly value recorded after cohabitation.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D4 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 59a | 58a | 58a | 59a | 55a |
| FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 10.5 ± 1.5 | 10.4 ± 1.3 | 10.8 ± 2.4 | 10.6 ± 1.6 | 9.3 ± 1.7** |
| DAYS 8 - 15 | MEAN±S.D. | 18.1 ± 2.0 [ 58]b | 17.4 ± 1.8 | 18.2 ± 2.9 [ 57]a | 17.6 ± 2.8 | 16.0 ± 3.0** |
| DAYS 15 - 22 | MEAN±S.D. | 22.4 ± 2.1 | 21.6 ± 2.0 | 22.3 ± 2.7 [ 57]a | 21.6 ± 2.4 | 20.2 ± 3.2** |
| DAYS 22 - 29 | MEAN±S.D. | 25.6 ± 3.4 [ 58]a | 24.7 ± 2.2* | 25.3 ± 3.6 [ 56]a,b | 25.7 ± 2.5 [ 58]b | 24.5 ± 3.1* |
| DAYS 29 - 36 | MEAN±S.D. | 28.1 ± 2.4 [ 47]a | 26.8 ± 2.1* [ 54]a | 27.8 ± 2.9 [ 50]a,b | 28.4 ± 4.0 [ 49]a | 26.5 ± 3.1** [ 47]a,b |
| DAYS 36 - 43 | MEAN±S.D. | 29.0 ± 2.5 [ 30]a | 27.9 ± 2.0 [ 29]a,b | 28.7 ± 2.5 [ 31]a | 28.1 ± 2.8 [ 29]a,b | 27.9 ± 3.8 [ 30]a |
| DAYS 43 - 50 | MEAN±S.D. | 29.2 ± 3.2 [ 29]a,b | 27.0 ± 2.1** [ 29]a,b | 28.8 ± 2.9 [ 29]a,b | 28.3 ± 3.0 [ 30]a | 27.2 ± 3.0* [ 28]a,b |
| DAYS 50 - 57 | MEAN±S.D. | 29.9 ± 2.8 [ 28]a,b | 28.3 ± 2.4 [ 26]a,b | 29.9 ± 3.2 [ 29]a,b | 29.0 ± 3.2 [ 29]a,b | 27.6 ± 3.3* [ 28]a,b |
| DAYS 57 - 64 | MEAN±S.D. | 30.0 ± 3.8 [ 26]a,b | 28.2 ± 2.7 [ 27]a,b | 28.9 ± 3.5 [ 28]a,b | 28.5 ± 3.4 [ 30]a | 27.4 ± 3.4 [ 30]a |
| DAYS 64 - 70c | MEAN±S.D. | 29.2 ± 3.8 [ 30]a | 27.6 ± 3.3 [ 28]a,b | 28.5 ± 2.6 [ 29]a,b | 27.7 ± 3.8 [ 30]a | 26.8 ± 3.8 [ 30]a |
| DAYS 1 - 70c | MEAN±S.D. | 25.1 ± 1.8 [ 30]a | 23.7 ± 1.7** [ 28]a,b | 24.7 ± 2.3 [ 29]a,b | 24.4 ± 2.4 [ 30]a | 23.2 ± 2.6** [ 30]a |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
b. Excludes values that were associated with spillage, wet or soiled feed.
c. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D4 (PAGE 2): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 30a | 28a,b | 29a,b | 30a | 29a,b |
| FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 99 -106 | MEAN±S.D. | 28.7 ± 2.9 | 27.7 ± 3.1 | 27.8 ± 3.1 | 28.5 ± 3.3 | 26.9 ± 3.6 |
| DAYS106 -113 | MEAN±S.D. | 28.8 ± 3.0 [ 24]b,c | 27.6 ± 3.2 | 27.2 ± 4.1 | 28.2 ± 3.1 [ 28]b | 26.9 ± 3.4 [ 28]a,b |
| DAYS 99 -113 | MEAN±S.D. | 28.8 ± 3.0 [ 24]b,c | 27.6 ± 2.9 | 27.5 ± 3.3 | 28.2 ± 3.0 [ 28]b | 27.2 ± 3.1 [ 28]a,b |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
b. Excludes values that were associated with spillage, wet or soiled feed.
c. Excludes values for rats that were sacrificed before day 113 postweaning.

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TABLE D5 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 59a | 58a | 58a | 59a | 55a |
| FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 179.2 ± 23.9 | 183.8 ± 19.4 | 177.8 ± 25.7 | 176.6 ± 19.9 | 168.3 ± 25.0* |
| DAYS 8 - 15 | MEAN±S.D. | 182.9 ± 19.5 [ 58]b | 182.6 ± 15.9 | 179.6 ± 22.2 [ 57]a | 177.3 ± 22.4 | 181.0 ± 25.6 |
| DAYS 15 - 22 | MEAN±S.D. | 146.3 ± 12.2 | 147.3 ± 10.4 | 143.3 ± 10.9 [ 57]a | 142.6 ± 12.9 | 149.4 ± 17.7 |
| DAYS 22 - 29 | MEAN±S.D. | 121.0 ± 15.8 [ 58]a | 121.7 ± 8.8 | 117.8 ± 13.1 [ 56]a,b | 124.0 ± 11.4 [ 58]b | 131.9 ± 16.4** |
| DAYS 29 - 36 | MEAN±S.D. | 104.6 ± 7.6 [ 47]a | 103.8 ± 7.6 [ 54]a | 102.5 ± 5.6 [ 50]a,b | 112.3 ± 20.5* [ 49]a | 116.1 ± 13.5** [ 47]a,b |
| DAYS 36 - 43 | MEAN±S.D. | 90.7 ± 6.8 [ 30]a | 91.3 ± 7.7 [ 29]a,b | 90.9 ± 4.6 [ 31]a | 92.0 ± 5.8 [ 29]a,b | 102.0 ± 8.0** [ 30]a |
| DAYS 43 - 50 | MEAN±S.D. | 81.0 ± 9.0 [ 29]a,b | 78.7 ± 5.6 [ 29]a,b | 82.1 ± 5.5 [ 29]a,b | 83.5 ± 5.8 [ 30]a | 90.1 ± 6.2** [ 28]a,b |
| DAYS 50 - 57 | MEAN±S.D. | 75.6 ± 6.6 [ 28]a,b | 75.8 ± 5.4 [ 26]a,b | 77.2 ± 6.8 [ 29]a,b | 79.2 ± 6.0 [ 29]a,b | 84.6 ± 6.3** [ 28]a,b |
| DAYS 57 - 64 | MEAN±S.D. | 70.1 ± 6.2 [ 26]a,b | 70.0 ± 5.2 [ 27]a,b | 70.0 ± 7.3 [ 28]a,b | 72.8 ± 6.5 [ 30]a | 78.6 ± 6.3** [ 30]a |
| DAYS 64 - 70c | MEAN±S.D. | 64.4 ± 6.6 [ 30]a | 64.8 ± 5.5 [ 28]a,b | 66.1 ± 4.0 [ 29]a,b | 67.2 ± 6.4 [ 30]a | 73.2 ± 8.7** [ 30]a |
| DAYS 1 - 70c | MEAN±S.D. | 91.8 ± 4.8 [ 30]a | 91.8 ± 4.5 [ 28]a,b | 92.4 ± 4.5 [ 29]a,b | 95.2 ± 5.9* [ 30]a | 101.0 ± 5.3** [ 30]a |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
b. Excludes values that were associated with spillage, wet or soiled feed.
c. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE D5 (PAGE 2): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 30a | 28a,b | 29a,b | 30a | 29a,b |
| FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 99 -106 | MEAN±S.D. | 54.4 ± 4.6 | 55.7 ± 5.0 | 55.3 ± 5.5 | 60.4 ± 8.8** | 65.6 ± 8.1** |
| DAYS106 -113 | MEAN±S.D. | 52.8 ± 4.8 [ 24]b,c | 54.7 ± 5.6 | 53.5 ± 6.7 | 58.0 ± 5.0** [ 28]b | 63.3 ± 6.5** [ 28]a,b |
| DAYS 99 -113 | MEAN±S.D. | 53.7 ± 4.4 [ 24]b,c | 55.1 ± 4.9 | 54.5 ± 5.3 | 58.6 ± 5.0** [ 28]b | 64.8 ± 6.6** [ 28]a,b |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation, found dead or moribund sacrificed.
b. Excludes values that were associated with spillage, wet or soiled feed.
c. Excludes values for rats that were sacrificed before day 113 postweaning.
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE D6 (PAGE 1): SEXUAL MATURATION - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| MALE RATS | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 52a-d | 58a | 57a | 58a | 54a |
| PREPUTIAL SEPARATION e | MEAN±S.D. | 48.5 ± 2.0 | 49.5 ± 2.7 | 49.4 ± 3.4 | 49.7 ± 3.1 | 52.2 ± 3.1** |

a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rats in which testing was discontinued before the rat became sexually mature.
c. Excludes values for rats that were not observed.
d. Excludes values for rat 6555, which did not have preputial separation recorded on one day and was separated the following day.
e. Average day postpartum that the prepuce was observed to be separated.
** Significantly different from the Group I value ($p \leq 0.01$).



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TABLE D7 (PAGE 1): MATING AND FERTILITY - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS IN COHABITATION | N | 30 | 29 | 30 | 30 | 30 |
| DAYS IN COHABITATION a | MEAN±S.D. | 3.0 ± 2.4 | 3.0 ± 1.1 | 2.4 ± 1.2 | 2.7 ± 1.6 | 2.5 ± 1.2 |
| RATS THAT MATED b | N(%) | 29( 96.7) | 29(100.0) | 30(100.0) | 30(100.0) | 30(100.0) |
| FERTILITY INDEX c | N/N | 28/ 29 | 28/ 29 | 28/ 30 | 28/ 30 | 29/ 30 |
| | (%) | ( 96.6) | ( 96.6) | ( 93.3) | ( 93.3) | ( 96.7) |
| RATS WITH CONFIRMED MATING DATES | N | 29 | 29 | 30 | 30 | 30 |
| MATED WITH FEMALE d DAYS 1-7 | N(%) | 29(100.0) | 29(100.0) | 30(100.0) | 30(100.0) | 30(100.0) |
| RATS PREGNANT/RATS IN COHABITATION | N/N | 28/ 30 | 28/ 29 | 28/ 30 | 28/ 30 | 29/ 30 |
| | (%) | ( 93.3) | ( 96.6) | ( 93.3) | ( 93.3) | ( 96.7) |

[ ] = NUMBER OF VALUES AVERAGED
a. Restricted to rats with a confirmed mating date and rats that did not mate.
b. Includes only one mating for each male rat.
c. Number of pregnancies/number of rats that mated.
d. Restricted to rats with a confirmed mating date.

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TABLE D8 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS EXAMINED a | N | 60 | 60 | 60 | 60 | 60 |
| MORTALITY a | N | 3 | 3 | 3 | 2 | 7 |
| FOUND DEAD | N | 2 | 3 | 3 | 1 | 6 |
| MORIBUND SACRIFICED | N | 1 | 0 | 0 | 1 | 1 |
| APPEARED NORMAL | N | 59 | 58 | 53 | 44** | 49** |
| LUNGS: | | | | | | |
| ALL LOBES, MOTTLED DARK RED | N | 1 | 0 | 0 | 0 | 0 |
| PROSTATE: | | | | | | |
| SMALL | N | 0 | 1 | 0 | 0 | 0 |
| TESTES: | | | | | | |
| LEFT, FLACCID, SMALL | N | 0 | 1 | 0 | 0 | 0 |
| LEFT, LARGE | N | 0 | 0 | 1 | 0 | 0 |
| EPIDIDYMIDES: | | | | | | |
| LEFT, SMALL | N | 0 | 1 | 0 | 0 | 0 |
| LIVER: | | | | | | |
| LEFT LATERAL AND/OR MEDIAN LOBES, TAN AND/OR BLACK OR WHITE AREA(S) | N | 0 | 0 | 6* | 10** | 9** |
| LARGE | N | 0 | 0 | 0 | 0 | 1 |
| KIDNEYS: | | | | | | |
| RIGHT, PELVIS, MODERATE OR SLIGHT DILATION | N | 0 | 0 | 0 | 4** | 1 |

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy and for rats that were found dead or moribund sacrificed.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE D8 (PAGE 2): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS EXAMINED a | N | 60 | 60 | 60 | 60 | 60 |
| MORTALITY a | N | 3 | 3 | 3 | 2 | 7 |
| FOUND DEAD | N | 2 | 3 | 3 | 1 | 6 |
| MORIBUND SACRIFICED | N | 1 | 0 | 0 | 1 | 1 |
| INTESTINES: | | | | | | |
| DISTENDED WITH GAS | N | 0 | 0 | 0 | 1 | 0 |
| THYMUS: | | | | | | |
| SMALL | N | 0 | 0 | 0 | 1 | 0 |
| STOMACH: | | | | | | |
| CARDIAC REGION, ULCERATIONS | N | 0 | 0 | 0 | 1 | 0 |
| SPLEEN: | | | | | | |
| TAN AREA EXTENDED INTO THE PARENCHYMA | N | 0 | 0 | 0 | 1 | 0 |
| SMALL | N | 0 | 0 | 0 | 0 | 1 |

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy and for rats that were found dead or moribund sacrificed.
** Significantly different from the Group I value ($p \leq 0.01$).



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TABLE D9 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 559.9 ± 59.8 | 527.2 ± 54.8* | 523.9 ± 48.2* | 499.3 ± 63.5** | 437.6 ± 41.6** |
| EPIDIDYMIS LEFT | MEAN±S.D. | 0.6854 ±0.0589 | 0.6626 ±0.0821 | 0.6749 ±0.0573 | 0.6720 ±0.0589 | 0.6503 ±0.0488 |
| CAUDA EPIDIDYMIS LEFT | MEAN±S.D. | 0.3333 ±0.0363 | 0.3177 ±0.0499 | 0.3287 ±0.0301 | 0.3288 ±0.0395 | 0.3169 ±0.0290 |
| TESTIS LEFT | MEAN±S.D. | 1.7456 ±0.1501 | 1.7058 ±0.1844 | 1.8278 ±0.2751 | 1.7732 ±0.1254 | 1.7284 ±0.1618 |
| LEFT TESTIS MINUS TUNICA ALBUGINEA | MEAN±S.D. | 1.6129 ±0.1426 | 1.5455 ±0.2513 | 1.6826 ±0.2590 | 1.6259 ±0.1201 | 1.5914 ±0.1483 |
| SEMINAL VESICLES WITH FLUID | MEAN±S.D. | 1.8978 ±0.3480 | 2.0708 ±0.2430 | 1.9677 ±0.2768 | 2.0598 ±0.3113 | 1.8930 ±0.3026 |
| SEMINAL VESICLES WITHOUT FLUID | MEAN±S.D. | 0.9878 ±0.1781 | 1.0380 ±0.1480 | 1.0194 ±0.1240 | 1.0701 ±0.1428 | 0.9493 ±0.1712 |
| EPIDIDYMIS RIGHT | MEAN±S.D. | 0.6982 ±0.0609 | 0.6870 ±0.0446 | 0.6831 ±0.0458 | 0.6881 ±0.0455 | 0.6693 ±0.0503 |
| TESTIS RIGHT | MEAN±S.D. | 1.7324 ±0.1389 | 1.7227 ±0.1363 | 1.7860 ±0.1539 | 1.7677 ±0.1195 | 1.7432 ±0.1783 |
| PROSTATE | MEAN±S.D. | 1.0374 ±0.2849 | 1.0825 ±0.2897 | 1.0265 ±0.2336 | 1.0455 ±0.2343 | 0.8724 ±0.1759* |
| PITUITARY | MEAN±S.D. | 0.015 ± 0.003 | 0.017 ± 0.006 | 0.016 ± 0.006 | 0.014 ± 0.005 | 0.013 ± 0.006 [ 28]a |
| BRAIN | MEAN±S.D. | 2.34 ± 0.13 | 2.28 ± 0.16 | 2.31 ± 0.12 | 2.28 ± 0.10 | 2.18 ± 0.14** |

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Excludes values for rats that had organs damaged (weight affected).
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE D9 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 559.9 ± 59.8 | 527.2 ± 54.8* | 523.9 ± 48.2* | 499.3 ± 63.5** | 437.6 ± 41.6** |
| LIVER | MEAN±S.D. | 21.65 ± 3.22 | 24.57 ± 4.04** | 28.24 ± 4.22** | 29.28 ± 4.09** | 29.74 ± 3.97** |
| KIDNEY LEFT | MEAN±S.D. | 2.21 ± 0.20 | 2.35 ± 0.26* | 2.46 ± 0.20** | 2.30 ± 0.22 | 2.03 ± 0.22** |
| KIDNEY RIGHT | MEAN±S.D. | 2.24 ± 0.21 | 2.34 ± 0.28 | 2.48 ± 0.24** | 2.33 ± 0.25 | 2.04 ± 0.21** |
| ADRENAL LEFT | MEAN±S.D. | 0.032 ± 0.006 | 0.032 ± 0.008 | 0.031 ± 0.005 | 0.029 ± 0.006 | 0.028 ± 0.006* |
| ADRENAL RIGHT | MEAN±S.D. | 0.030 ± 0.007 [ 29]a | 0.029 ± 0.007 | 0.029 ± 0.005 | 0.028 ± 0.006 | 0.026 ± 0.006 |
| SPLEEN | MEAN±S.D. | 0.94 ± 0.14 | 0.83 ± 0.15* | 0.85 ± 0.14* | 0.81 ± 0.23** | 0.74 ± 0.13** |
| THYMUS | MEAN±S.D. | 0.51 ± 0.12 | 0.46 ± 0.12 | 0.44 ± 0.15 | 0.38 ± 0.11** | 0.39 ± 0.15** |

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Excludes values for rats that had organs damaged (weight affected).
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE D10 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 559.9 ± 59.8 | 527.2 ± 54.8* | 523.9 ± 48.2* | 499.3 ± 63.5** | 437.6 ± 41.6** |
| EPIDIDYMIS LEFT | MEAN±S.D. | 0.123 ± 0.014 | 0.127 ± 0.018 | 0.130 ± 0.016 | 0.136 ± 0.017** | 0.149 ± 0.017** |
| CAUDA EPIDIDYMIS LEFT | MEAN±S.D. | 0.060 ± 0.007 | 0.060 ± 0.011 | 0.063 ± 0.008 | 0.066 ± 0.010* | 0.072 ± 0.010** |
| TESTIS LEFT | MEAN±S.D. | 0.314 ± 0.036 | 0.327 ± 0.050 | 0.351 ± 0.061** | 0.360 ± 0.048** | 0.396 ± 0.044** |
| LEFT TESTIS MINUS TUNICA ALBUGINEA | MEAN±S.D. | 0.290 ± 0.034 | 0.296 ± 0.057 | 0.324 ± 0.057* | 0.330 ± 0.047** | 0.366 ± 0.041** |
| SEMINAL VESICLES WITH FLUID | MEAN±S.D. | 0.339 ± 0.061 | 0.396 ± 0.052** | 0.377 ± 0.049* | 0.416 ± 0.064** | 0.436 ± 0.082** |
| SEMINAL VESICLES WITHOUT FLUID | MEAN±S.D. | 0.176 ± 0.033 | 0.198 ± 0.034* | 0.196 ± 0.028* | 0.217 ± 0.032** | 0.218 ± 0.046** |
| EPIDIDYMIS RIGHT | MEAN±S.D. | 0.126 ± 0.014 | 0.131 ± 0.011 | 0.130 ± 0.013 | 0.140 ± 0.017** | 0.152 ± 0.018** |
| TESTIS RIGHT | MEAN±S.D. | 0.312 ± 0.036 | 0.329 ± 0.040 | 0.343 ± 0.044* | 0.358 ± 0.049** | 0.401 ± 0.050** |
| PROSTATE | MEAN±S.D. | 0.185 ± 0.052 | 0.203 ± 0.050 | 0.197 ± 0.046 | 0.210 ± 0.043 | 0.199 ± 0.039 |
| PITUITARY a | MEAN±S.D. | 2.621 ± 0.589 | 3.181 ± 1.203 | 3.071 ± 1.054 | 2.809 ± 1.064 | 3.041 ± 1.421 [ 28]b |
| BRAIN | MEAN±S.D. | 0.421 ± 0.045 | 0.435 ± 0.040 | 0.443 ± 0.041 | 0.461 ± 0.055** | 0.502 ± 0.043** |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Excludes values for rats that had organs damaged (weight affected).

* Significantly different from the Group I value ($p \leq 0.05$).

** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE D10 (PAGE 2): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 559.9 ± 59.8 | 527.2 ± 54.8* | 523.9 ± 48.2* | 499.3 ± 63.5** | 437.6 ± 41.6** |
| LIVER | MEAN±S.D. | 3.860 ± 0.324 | 4.648 ± 0.510** | 5.408 ± 0.754** | 5.895 ± 0.697** | 6.787 ± 0.550** |
| KIDNEY LEFT | MEAN±S.D. | 0.396 ± 0.031 | 0.446 ± 0.042** | 0.472 ± 0.045** | 0.464 ± 0.046** | 0.465 ± 0.038** |
| KIDNEY RIGHT | MEAN±S.D. | 0.402 ± 0.034 | 0.446 ± 0.041** | 0.474 ± 0.041** | 0.469 ± 0.050** | 0.467 ± 0.036** |
| ADRENAL LEFT a | MEAN±S.D. | 5.693 ± 1.124 | 6.016 ± 1.402 | 5.999 ± 1.124 | 5.837 ± 1.282 | 6.332 ± 1.366 |
| ADRENAL RIGHT a | MEAN±S.D. | 5.355 ± 1.242 [ 29]b | 5.517 ± 1.251 | 5.494 ± 1.007 | 5.697 ± 1.076 | 5.899 ± 1.426 |
| SPLEEN | MEAN±S.D. | 0.169 ± 0.024 | 0.157 ± 0.023 | 0.161 ± 0.021 | 0.166 ± 0.063 | 0.171 ± 0.027 |
| THYMUS | MEAN±S.D. | 0.091 ± 0.022 | 0.088 ± 0.023 | 0.082 ± 0.024 | 0.077 ± 0.025 | 0.088 ± 0.033 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Excludes values for rats that had organs damaged (weight affected).

* Significantly different from the Group I value ($p \leq 0.05$).

** Significantly different from the Group I value ($p \leq 0.01$).



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TABLE D11 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| BRAIN WEIGHT | MEAN±S.D. | 2.34 ± 0.13 | 2.28 ± 0.16 | 2.31 ± 0.12 | 2.28 ± 0.10 | 2.18 ± 0.14** |
| EPIDIDYMIS LEFT | MEAN±S.D. | 29.33 ± 2.23 | 29.11 ± 3.84 | 29.28 ± 2.70 | 29.57 ± 2.64 | 29.91 ± 2.74 |
| CAUDA EPIDIDYMIS LEFT | MEAN±S.D. | 14.26 ± 1.41 | 13.94 ± 2.20 | 14.28 ± 1.53 | 14.46 ± 1.71 | 14.60 ± 1.74 |
| TESTIS LEFT | MEAN±S.D. | 74.71 ± 5.90 | 74.92 ± 8.24 | 79.23 ± 11.56 | 78.03 ± 6.10 | 79.31 ± 6.62* |
| LEFT TESTIS MINUS TUNICA ALBUGINEA | MEAN±S.D. | 69.03 ± 5.56 | 67.86 ± 11.31 | 72.93 ± 10.86 | 71.56 ± 5.80 | 73.09 ± 6.81 |
| SEMINAL VESICLES WITH FLUID | MEAN±S.D. | 81.16 ± 13.80 | 90.84 ± 9.80* | 85.37 ± 12.40 | 90.50 ± 12.96* | 87.40 ± 16.74 |
| SEMINAL VESICLES WITHOUT FLUID | MEAN±S.D. | 42.24 ± 7.07 | 45.56 ± 6.31 | 44.20 ± 5.44 | 47.06 ± 6.27 | 43.78 ± 8.89 |
| EPIDIDYMIS RIGHT | MEAN±S.D. | 29.88 ± 2.19 | 30.20 ± 2.42 | 29.63 ± 2.13 | 30.27 ± 2.06 | 30.80 ± 3.04 |
| TESTIS RIGHT | MEAN±S.D. | 74.15 ± 5.37 | 75.66 ± 6.05 | 77.43 ± 6.43 | 77.76 ± 5.38* | 80.05 ± 8.12** |
| PROSTATE | MEAN±S.D. | 44.37 ± 11.95 | 47.19 ± 11.80 | 44.54 ± 10.14 | 45.93 ± 10.09 | 40.10 ± 8.42 |
| PITUITARY | MEAN±S.D. | 0.62 ± 0.14 | 0.73 ± 0.25 | 0.70 ± 0.24 | 0.60 ± 0.20 | 0.61 ± 0.29 [ 28]a |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Excludes values for rats that had organs damaged (weight affected).

* Significantly different from the Group I value ($p \leq 0.05$).

** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE D11 (PAGE 2): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| BRAIN WEIGHT | MEAN±S.D. | 2.34 ± 0.13 | 2.28 ± 0.16 | 2.31 ± 0.12 | 2.28 ± 0.10 | 2.18 ± 0.14** |
| LIVER | MEAN±S.D. | 927.17 ±135.62 | 1074.98 ±149.66** | 1224.30 ±178.78** | 1285.40 ±159.24** | 1363.79 ±165.99** |
| KIDNEY LEFT | MEAN±S.D. | 94.77 ± 7.87 | 102.81 ± 7.56** | 106.56 ± 9.07** | 100.98 ± 7.93* | 93.27 ± 9.95 |
| KIDNEY RIGHT | MEAN±S.D. | 95.87 ± 9.05 | 102.62 ± 7.68** | 107.40 ± 10.20** | 102.29 ± 9.81* | 93.60 ± 7.88 |
| ADRENAL LEFT | MEAN±S.D. | 1.35 ± 0.24 | 1.39 ± 0.36 | 1.35 ± 0.23 | 1.27 ± 0.26 | 1.26 ± 0.25 |
| ADRENAL RIGHT | MEAN±S.D. | 1.28 ± 0.28 [ 29]a | 1.28 ± 0.31 | 1.24 ± 0.22 | 1.24 ± 0.24 | 1.17 ± 0.26 |
| SPLEEN | MEAN±S.D. | 40.39 ± 5.51 | 36.24 ± 4.69* | 36.73 ± 6.06* | 35.91 ± 10.99** | 34.21 ± 5.76** |
| THYMUS | MEAN±S.D. | 21.84 ± 5.64 | 20.35 ± 5.61 | 19.15 ± 6.53 | 16.77 ± 4.95** | 17.78 ± 6.93* |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Excludes values for rats that had organs damaged (weight affected).

* Significantly different from the Group I value ($p \leq 0.05$).

** Significantly different from the Group I value ($p \leq 0.01$).



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TABLE D12 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | | | II | | | III | | | IV | | | V | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | | | 1 | | | 3 | | | 10 | | | 30 | | |
| RATS TESTED | N | 30 | | | 29 | | | 30 | | | 30 | | | 29 | | |
| INCLUDED IN ANALYSES | N | 30 | | | 28a | | | 30 | | | 30 | | | 29 | | |
| NUMBER MOTILE | MEAN±S.D. | 250.1 | ± | 71.1 | 266.4 | ± | 95.2 | 271.6 | ± | 74.2 | 258.9 | ± | 73.0 | 257.2 | ± | 86.6 |
| MOTILE PERCENT | MEAN±S.D. | 83.1 | ± | 8.8 | 83.7 | ± | 6.8 | 83.9 | ± | 6.9 | 82.6 | ± | 7.0 | 80.1 | ± | 10.9 |
| STATIC COUNT (NONMOTILE) | MEAN±S.D. | 51.2 | ± | 30.5 | 51.9 | ± | 27.0 | 52.8 | ± | 27.0 | 56.3 | ± | 28.4 | 64.6 | ± | 40.4 |
| TOTAL COUNT b | MEAN±S.D. | 301.3 | ± | 77.8 | 318.4 | ± | 108.6 | 324.4 | ± | 87.4 | 315.2 | ± | 88.9 | 321.8 | ± | 104.1 |
| SPERM COUNT c | MEAN±S.D. | 135.6 | ± | 67.8 | 162.0 | ± | 110.4 | 144.6 | ± | 79.0 | 136.3 | ± | 62.0 | 115.7 | ± | 57.5 |
| SPERM DENSITY d | MEAN±S.D. | 1194.3 | ± | 632.1 | 1423.7 | ± | 922.5 | 1248.5 | ± | 686.5 | 1206.8 | ± | 565.8 | 1052.7 | ± | 487.7 |

a. Excludes values for rat 1082, which had less than 200 sperm per 20 fields.

b. Sum of number motile and static count. Groups of five fields were evaluated until a sperm count of at least 200 was achieved or 20 fields were evaluated.

c. Sperm count used in the calculation of sperm density. Ten fields were evaluated.

d. The sperm density was calculated by dividing the sperm count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table D20 for the weight of the left cauda epididymis) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

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TABLE D12 (PAGE 2): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| INCLUDED IN ANALYSES | N | 30 | 28a | 30 | 30 | 29 |
| SPERMATID COUNT b | MEAN±S.D. | 45.3 ± 13.1 | 40.4 ± 15.1 | 39.3 ± 15.4 | 40.2 ± 15.7 | 42.7 ± 16.2 |
| SPERMATID DENSITY c | MEAN±S.D. | 82.6 ± 25.4 | 73.8 ± 26.5 | 67.8 ± 25.1 | 71.4 ± 27.4 | 77.1 ± 27.3 |

a. Excludes values for rat 1082, which had less than 200 sperm per 20 fields.

b. Spermatid count used in the calculation of spermatid density. Ten fields were evaluated.

c. The spermatid density was calculated by dividing the spermatid count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the spermatid concentration. The calculated spermatid concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left testis minus tunica albuginea (see Table D20 for the weight of the left testis minus tunica albuginea) to obtain the spermatid density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.



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TABLE D13 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - SUMMARY - F1 GENERATION MALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 29 |
| INCLUDED IN ANALYSES | N | 30 | 28a | 30 | 30 | 29 |
| NORMAL | MEAN±S.D. | 195.3 ± 1.9 | 195.2 ± 2.6 | 194.9 ± 2.0 | 195.3 ± 2.1 | 194.1 ± 2.6 |
| DETACHED HEAD | MEAN±S.D. | 2.7 ± 1.6 | 3.2 ± 1.8 | 3.0 ± 1.7 | 3.0 ± 1.8 | 3.1 ± 1.4 |
| NO HEAD | MEAN±S.D. | 1.4 ± 1.0 | 1.4 ± 1.2 | 1.7 ± 1.1 | 1.2 ± 1.2 | 2.0 ± 1.6 |
| BROKEN FLAGELLUM | MEAN±S.D. | 0.5 ± 0.7 | 0.0 ± 0.2* | 0.3 ± 0.5 | 0.3 ± 0.6 | 0.6 ± 0.8 |
| NO HOOK | MEAN±S.D. | 0.0 ± 0.0 | 0.1 ± 0.3 | 0.0 ± 0.2 | 0.0 ± 0.2 | 0.0 ± 0.0 |
| COILED FLAGELLUM | MEAN±S.D. | 0.0 ± 0.2 | 0.0 ± 0.0 | 0.1 ± 0.3 | 0.0 ± 0.2 | 0.0 ± 0.2 |
| BENT FLAGELLUM | MEAN±S.D. | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.2 | 0.0 ± 0.2 |
| BENT FLAGELLUM TIP | MEAN±S.D. | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.2 |
| PERCENT ABNORMAL | MEAN±S.D. | 2.4 ± 0.9 | 2.4 ± 1.3 | 2.6 ± 1.0 | 2.4 ± 1.0 | 2.9 ± 1.3 |

a. Excludes values for rat 1082, which had less than 200 sperm per 20 fields.
* Significantly different from the Group I value ($p \leq 0.05$).



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TABLE D14 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1001 | | NO ADVERSE FINDINGS |
| 1002 | DP( 93- 94) | CHROMORHINORRHEA |
| | DP( 93- 94) | SNOUT: SWOLLEN |
| | DP( 93- 97) | CHROMODACRYORRHEA |
| 1003 | | NO ADVERSE FINDINGS |
| 1004 | | NO ADVERSE FINDINGS |
| 1005 | DP(112-113) | INCISORS: MISALIGNED |
| | DP(114-118) | INCISORS: MISSING/BROKEN a |
| 1006 | | NO ADVERSE FINDINGS |
| 1007 | | NO ADVERSE FINDINGS |
| 1008 | | NO ADVERSE FINDINGS |
| 1009 | | NO ADVERSE FINDINGS |
| 1010 | | NO ADVERSE FINDINGS |
| 1011 | | NO ADVERSE FINDINGS |
| 1012 | DP( 76 ) | SOFT OR LIQUID FECES |
| 1013 | DP( 24 ) | ANNULAR CONSTRICTION OF THE TAIL |
| 1014 | | NO ADVERSE FINDINGS |
| 1015 | | NO ADVERSE FINDINGS |
| 1016 | | NO ADVERSE FINDINGS |
| 1017 | DP( 3 ) | SOFT OR LIQUID FECES |
| 6553 | DP( 4- 7) | SOFT OR LIQUID FECES |
| | DP( 4- 14) | URINE-STAINED ABDOMINAL FUR |
| | DP( 22- 32) | ANNULAR CONSTRICTION OF THE TAIL |
| 6554 | DP( 22- 32) | NECK AND HEAD: SCAB (0.4 CM IN DIAMETER) |
| | DP( 31- 35) | ABDOMINAL DISTENTION a |
| 6555 | | NO ADVERSE FINDINGS |
| 1021 | DP( 35- 37) | SNOUT: SWOLLEN |
| | DP( 35- 37) | INCISORS: MISSING/BROKEN |
| | DP( 37- 59) | NECK: SCAB (0.3 CM IN DIAMETER) |
| 1022 | DP( 27- 34) | HEAD: SCAB (0.5 CM IN DIAMETER) |
| | DP( 35- 37) | HEAD: ABRASION (1.0 CM IN DIAMETER)a |
| 1023 | | NO ADVERSE FINDINGS |
| 1024 | DP( 25 ) | FOUND DEAD |
| 1025 | DP( 36 ) | CHROMORHINORRHEA |
| 1026 | DP( 17-118) | RIGHT EYE: ENLARGED a |
| | DP( 36 ) | EXCESS SALIVATION |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

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TABLE D14 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1027 | DP( 8- 9) | ABDOMINAL DISTENTION |
| 1028 | DP( 2 ) | SOFT OR LIQUID FECES |
| | DP( 8- 16) | ABDOMINAL DISTENTION |
| | DP( 23- 43) | ANNULAR CONSTRICTION OF THE TAIL |
| 1029 | DP( 2- 4) | CHROMORHINORRHEA a |
| | DP( 4 ) | DECREASED MOTOR ACTIVITY |
| | DP( 4 ) | COLD TO TOUCH |
| | DP( 4 ) | MORIBUND SACRIFICED |
| 1030 | | NO ADVERSE FINDINGS |
| 1031 | | NO ADVERSE FINDINGS |
| 1032 | | NO ADVERSE FINDINGS |
| 1033 | DP( 8- 16) | ABDOMINAL DISTENTION |
| | DP( 35 ) | EXCESS SALIVATION |
| 1034 | DP( 74 ) | SOFT OR LIQUID FECES |
| 1035 | DP( 2 ) | CHROMORHINORRHEA |
| | DP( 35 ) | EXCESS SALIVATION |
| 1036 | | NO ADVERSE FINDINGS |
| 1037 | | NO ADVERSE FINDINGS |
| 1038 | DP( 34 ) | CHROMORHINORRHEA |
| 1039 | DP( 34 ) | VOCALIZATION |
| | DP( 42 ) | FOUND DEAD |
| 1040 | DP( 77- 85) | INCISORS: MISALIGNED |
| 1041 | | NO ADVERSE FINDINGS |
| 1042 | | NO ADVERSE FINDINGS |
| 1043 | DP( 8 ) | SOFT OR LIQUID FECES |
| | DP( 15- 24) | BACK: SCAB (DID NOT EXCEED 0.5 CM IN DIAMETER) |
| | DP( 30- 31) | HEAD: SCAB (0.4 CM IN DIAMETER) |
| | DP( 32- 46) | HEAD: ABRASION (1.0 CM IN DIAMETER) |
| | DP( 33- 34) | CHROMODACRYORRHEA |
| | DP( 33- 40) | INCISORS: MISSING/BROKEN |
| | DP( 47- 54) | HEAD: SCAB (0.8 CM IN DIAMETER) |
| | DP( 59- 85) | BACK: SCAB (DID NOT EXCEED 1.0 CM X 0.5 CM) |
| | DP( 89-118) | LOCALIZED ALOPECIA: LIMBS a |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

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TABLE D14 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1044 | | NO ADVERSE FINDINGS |
| 1045 | | NO ADVERSE FINDINGS |
| 1046 | | NO ADVERSE FINDINGS |
| 1047 | | NO ADVERSE FINDINGS |
| 1048 | DP( 33- 34) | SOFT OR LIQUID FECES |
| | DP( 34 ) | CHROMORHINORRHEA |
| 1049 | DP( 34 ) | SOFT OR LIQUID FECES |
| 1050 | DP( 34 ) | EXCESS SALIVATION |
| 1051 | DP( 2 ) | CHROMORHINORRHEA |
| 1052 | DP( 9- 13) | SOFT OR LIQUID FECES |
| | DP( 42 ) | SOFT OR LIQUID FECES |
| | DP( 93- 94) | SOFT OR LIQUID FECES |
| 1053 | DP( 20 ) | SOFT OR LIQUID FECES |
| 1054 | | NO ADVERSE FINDINGS |
| 1055 | | NO ADVERSE FINDINGS |
| 1056 | DP( 29 ) | SOFT OR LIQUID FECES |
| 1057 | DP( 4 ) | CHROMORHINORRHEA |
| 1058 | DP( 18- 28) | ANNULAR CONSTRICTION OF THE TAIL |
| 1059 | DP( 90 ) | CHROMORHINORRHEA |
| | DP( 90 ) | RALES |
| | DP( 90- 97) | CHROMODACRYORRHEA |
| | DP( 90-109) | INCISORS: MISSING/BROKEN a |
| | DP(103-109) | CHROMODACRYORRHEA a |
| | DP( 109 ) | INCISORS: MISALIGNED a |
| 1060 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1061 | | NO ADVERSE FINDINGS |
| 1062 | DP( 28- 36) | ANNULAR CONSTRICTION OF THE TAIL |
| 1063 | DP(104-105) | CHROMODACRYORRHEA |
| 1064 | DP( 5 ) | CHROMORHINORRHEA a |
| | DP( 5 ) | URINE-STAINED ABDOMINAL FUR |
| | DP( 6 ) | FOUND DEAD |
| 1065 | | NO ADVERSE FINDINGS |
| 1066 | | NO ADVERSE FINDINGS |
| 1067 | DP( 3 ) | CHROMORHINORRHEA |
| 1068 | DP( 38 ) | CHROMORHINORRHEA |
| 1069 | DP( 26- 36) | ANNULAR CONSTRICTION OF THE TAIL |
| 1070 | DP( 25- 35) | ANNULAR CONSTRICTION OF THE TAIL |
| | DP( 29 ) | SOFT OR LIQUID FECES |
| 1071 | DP( 44- 45) | SOFT OR LIQUID FECES |
| 1072 | DP( 27 ) | SOFT OR LIQUID FECES |
| 1073 | | NO ADVERSE FINDINGS |
| 1074 | | NO ADVERSE FINDINGS |
| 1075 | DP( 25- 35) | ANNULAR CONSTRICTION OF THE TAIL |
| 1076 | | NO ADVERSE FINDINGS |
| 1077 | DP( 37 ) | VOCALIZATION |
| 1078 | | NO ADVERSE FINDINGS |
| 1079 | DP( 25- 35) | ANNULAR CONSTRICTION OF THE TAIL |
| 1080 | | NO ADVERSE FINDINGS |
| 1081 | DP( 37 ) | SOFT OR LIQUID FECES |
| 1082 | | NO ADVERSE FINDINGS |
| 1083 | | NO ADVERSE FINDINGS |
| 1084 | DP( 37 ) | EXCESS SALIVATION |
| 1085 | DP( 25- 35) | ANNULAR CONSTRICTION OF THE TAIL |
| | DP( 28- 37) | HEAD: SCAB (0.2 CM IN DIAMETER) |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1086 | DP( 10- 17) | ABDOMINAL DISTENTION |
| | DP( 80 ) | CHROMORHINORRHEA |
| | DP( 80- 81) | SNOUT: SWOLLEN |
| | DP( 80-115) | INCISORS: MISALIGNED |
| | DP( 80-119) | CHROMODACRYORRHEA a |
| | DP(102-103) | CHROMORHINORRHEA |
| 1087 | DP( 45 ) | FOUND DEAD |
| 1088 | | NO ADVERSE FINDINGS |
| 1089 | DP( 25- 38) | RIGHT EYE: CORNEAL OPACITY |
| | DP( 37 ) | SOFT OR LIQUID FECES |
| 1090 | DP( 37 ) | EXCESS SALIVATION |
| 1091 | | NO ADVERSE FINDINGS |
| 1092 | | NO ADVERSE FINDINGS |
| 1093 | DP( 20 ) | SOFT OR LIQUID FECES |
| 1094 | DP( 32- 51) | PTOSIS |
| | DP( 42- 51) | ANNULAR CONSTRICTION OF THE TAIL |
| | DP( 50- 52) | CHROMODACRYORRHEA |
| 1095 | | NO ADVERSE FINDINGS |
| 1096 | DP( 3- 6) | CHROMODACRYORRHEA |
| | DP( 24- 25) | ENOPHTHALMOS |
| | DP( 35- 36) | CHROMORHINORRHEA |
| | DP( 50- 51) | CHROMORHINORRHEA |
| 1097 | | NO ADVERSE FINDINGS |
| 1098 | | NO ADVERSE FINDINGS |
| 1099 | DP( 34 ) | SNOUT: SWOLLEN |
| | DP( 34 ) | URINE-STAINED ABDOMINAL FUR |
| | DP( 34- 36) | CHROMORHINORRHEA |
| | DP( 34- 37) | CHROMODACRYORRHEA a |
| | DP( 34- 37) | INCISORS: MISALIGNED a |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1100 | | NO ADVERSE FINDINGS |
| 1101 | DP( 36 ) | SOFT OR LIQUID FECES |
| 1102 | | NO ADVERSE FINDINGS |
| 1103 | | NO ADVERSE FINDINGS |
| 1104 | DP( 1 ) | DECREASED MOTOR ACTIVITY |
| | DP( 1 ) | COLD TO TOUCH |
| | DP( 1 ) | EMACIATION |
| | DP( 2 ) | FOUND DEAD |
| 1105 | DP( 8- 18) | ABDOMINAL DISTENTION |
| | DP( 23- 35) | ANNULAR CONSTRICTION OF THE TAIL |
| 1106 | DP( 8- 18) | ABDOMINAL DISTENTION |
| | DP(100-101) | SOFT OR LIQUID FECES |
| 1107 | DP( 23- 33) | ANNULAR CONSTRICTION OF THE TAIL |
| | DP(100-101) | CHROMORHINORRHEA |
| 1108 | DP( 23- 33) | ANNULAR CONSTRICTION OF THE TAIL |
| 1109 | | NO ADVERSE FINDINGS |
| 1110 | | NO ADVERSE FINDINGS |
| 1111 | DP( 5 ) | CHROMORHINORRHEA |
| | DP( 35 ) | CHROMORHINORRHEA |
| 1112 | DP( 34 ) | CHROMORHINORRHEA |
| 1113 | DP( 7- 17) | ABDOMINAL DISTENTION |
| 1114 | DP( 22- 41) | HEAD AND NECK: SCAB (DID NOT EXCEED 0.5 CM IN DIAMETER) |
| | DP( 34 ) | SOFT OR LIQUID FECES |
| | DP( 64-119) | LOCALIZED ALOPECIA: LIMBS a |
| 1115 | DP( 22- 34) | ANNULAR CONSTRICTION OF THE TAIL |
| 1116 | | NO ADVERSE FINDINGS |
| 1117 | | NO ADVERSE FINDINGS |
| 1118 | DP( 34 ) | SOFT OR LIQUID FECES |
| | DP( 100 ) | SOFT OR LIQUID FECES |
| 1119 | DP( 34 ) | SOFT OR LIQUID FECES |
| 1120 | DP( 64- 85) | INCISORS: MISALIGNED |

DP = DAY POSTWEANING

a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1121 | DP( 5 ) | FOUND DEAD |
| 1122 | DP( 38 ) | SOFT OR LIQUID FECES |
| | DP( 45 ) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1123 | DP( 62- 67) | BACK: SCAB (DID NOT EXCEED 0.5 CM IN DIAMETER) |
| | DP( 97- 98) | CHROMORHINORRHEA |
| | DP( 97-110) | CHROMODACRYORRHEA |
| | DP( 97-118) | INCISORS: MISALIGNED a |
| | DP(100-118) | SNOUT: SWOLLEN a |
| | DP( 118 ) | CHROMODACRYORRHEA a |
| 1124 | | NO ADVERSE FINDINGS |
| 1125 | DP( 5- 9) | CHROMORHINORRHEA |
| | DP( 25- 35) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1126 | DP( 27- 38) | HEAD: SCABS (DID NOT EXCEED 0.5 CM IN DIAMETER)a |
| | DP( 35- 38) | NECK: SCAB (2.0 CM X 0.5 CM)a |
| 1127 | DP( 25- 28) | BACK: SCAB (0.4 CM IN DIAMETER) |
| | DP( 27- 54) | BEHIND LEFT EAR: SCAB (DID NOT EXCEED 0.5 CM IN DIAMETER) |
| 1128 | DP( 25- 35) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1129 | DP( 25- 35) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 64- 69) | INCISORS: MISSING/BROKEN |
| 1130 | DP( 2 ) | FOUND DEAD |
| 1131 | DP( 4- 5) | CHROMORHINORRHEA |
| | DP( 50 ) | RED, DRIED, SLIGHT PERINASAL SUBSTANCE |
| 1132 | DP( 30- 81) | INCISORS: MISALIGNED |
| | DP( 30-118) | CHROMODACRYORRHEA a |
| | DP( 37 ) | CHROMORHINORRHEA |
| | DP( 44- 77) | LACRIMATION |
| | DP( 82-118) | INCISORS: MISSING/BROKEN a |
| 1133 | DP( 37 ) | CHROMORHINORRHEA |
| 1134 | DP( 25- 35) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1135 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1136 | DP(107-119) | CHROMODACRYORRHEA a |
| | DP(107-119) | SNOUT: SWOLLEN a |
| | DP(107-119) | INCISORS: MISSING/BROKEN a |
| 1137 | | NO ADVERSE FINDINGS |
| 1138 | | NO ADVERSE FINDINGS |
| 1139 | DP(109-110) | CHROMORHINORRHEA |
| 1140 | DP( 3 ) | EMACIATION |
| | DP( 9 ) | FOUND DEAD |
| 1141 | | NO ADVERSE FINDINGS |
| 1142 | | NO ADVERSE FINDINGS |
| 1143 | | NO ADVERSE FINDINGS |
| 1144 | DP( 2 ) | EMACIATION |
| | DP( 2 ) | COLD TO TOUCH |
| | DP( 3 ) | CHROMORHINORRHEA |
| | DP( 3- 15) | URINE-STAINED ABDOMINAL FUR |
| | DP( 9- 19) | ABDOMINAL DISTENTION |
| 1145 | | NO ADVERSE FINDINGS |
| 1146 | | NO ADVERSE FINDINGS |
| 1147 | DP(101-103) | CHROMODACRYORRHEA |
| 1148 | | NO ADVERSE FINDINGS |
| 1149 | DP( 36 ) | EXCESS SALIVATION |
| 1150 | | NO ADVERSE FINDINGS |
| 1151 | DP( 36 ) | SOFT OR LIQUID FECES |
| | DP( 76-103) | INCISORS: MISALIGNED |
| | DP( 91-103) | CHROMODACRYORRHEA |
| | DP(105-110) | CHROMODACRYORRHEA |
| | DP(119-120) | CHROMODACRYORRHEA a |
| 1152 | | NO ADVERSE FINDINGS |
| 1153 | DP( 24- 36) | ANNULAR CONSTRICTIONS OF THE TAIL |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1154 | | NO ADVERSE FINDINGS |
| 1155 | | NO ADVERSE FINDINGS |
| 1156 | | NO ADVERSE FINDINGS |
| 1157 | DP( 35 ) | RED, SLIGHT PERIORAL SUBSTANCE |
| 1158 | DP( 59- 62) | BACK: SCAB (0.5 CM IN DIAMETER) |
| | DP( 63- 65) | LOCALIZED ALOPECIA: BACK |
| 1159 | DP( 35 ) | CHROMORHINORRHEA |
| | DP( 59 ) | CHROMODACRYORRHEA |
| | DP( 59- 65) | INCISORS: MISALIGNED |
| | DP( 92 ) | CHROMODACRYORRHEA |
| | DP(102-119) | CHROMODACRYORRHEA a |
| 1160 | | NO ADVERSE FINDINGS |
| 1161 | DP( 35 ) | SOFT OR LIQUID FECES |
| 1162 | DP( 23- 33) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 43- 44) | CHROMODACRYORRHEA |
| | DP( 43- 54) | INCISORS: MISALIGNED |
| 1163 | | NO ADVERSE FINDINGS |
| 1164 | DP( 63- 93) | LOCALIZED ALOPECIA: LIMBS |
| 1165 | DP( 35 ) | SOFT OR LIQUID FECES |
| 1166 | DP( 1- 4) | CHROMORHINORRHEA |
| 1167 | | NO ADVERSE FINDINGS |
| 1168 | DP( 38- 39) | RED, DRIED, SLIGHT PERINASAL SUBSTANCE |
| 1169 | DP( 24 ) | SOFT OR LIQUID FECES |
| | DP( 34 ) | SOFT OR LIQUID FECES |
| 1170 | | NO ADVERSE FINDINGS |
| 1171 | | NO ADVERSE FINDINGS |
| 1172 | | NO ADVERSE FINDINGS |
| 1173 | | NO ADVERSE FINDINGS |
| 1174 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 10): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1175 | DP( 34 ) | EXCESS SALIVATION |
| | DP( 56- 57) | CHROMORHINORRHEA |
| | DP( 56- 61) | SNOUT: SWOLLEN |
| | DP( 56-108) | INCISORS: MISALIGNED |
| | DP( 56-119) | CHROMODACRYORRHEA a |
| | DP(109-118) | INCISORS: MISSING/BROKEN |
| | DP(117-119) | INCISORS: MISALIGNED a |
| 1176 | DP( 103 ) | CHROMORHINORRHEA |
| | DP(103-119) | CHROMODACRYORRHEA a |
| | DP(103-119) | INCISORS: MISALIGNED a |
| 1177 | | NO ADVERSE FINDINGS |
| 1178 | | NO ADVERSE FINDINGS |
| 1179 | | NO ADVERSE FINDINGS |
| 1180 | DP( 18- 20) | HEAD: SCAB (0.3 CM IN DIAMETER) |
| | DP( 21- 22) | LOCALIZED ALOPECIA: HEAD |
| | DP( 30 ) | EXCESS SALIVATION |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 11): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1181 | | NO ADVERSE FINDINGS |
| 1182 | | NO ADVERSE FINDINGS |
| 1183 | DP( 10- 20) | ABDOMINAL DISTENTION |
| 1184 | DP( 5 ) | CHROMORHINORRHEA |
| | DP( 10- 20) | ABDOMINAL DISTENTION |
| | DP( 25- 44) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1185 | DP( 25- 33) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1186 | | NO ADVERSE FINDINGS |
| 1187 | | NO ADVERSE FINDINGS |
| 1188 | DP( 82- 83) | CHROMODACRYORRHEA |
| | DP( 82- 98) | INCISORS: MISALIGNED |
| | DP( 102 ) | SOFT OR LIQUID FECES |
| 1189 | DP( 48- 55) | INCISORS: MISSING/BROKEN |
| | DP( 81- 86) | INCISORS: MISSING/BROKEN |
| 1190 | | NO ADVERSE FINDINGS |
| 1191 | | NO ADVERSE FINDINGS |
| 1192 | DP( 84-117) | INCISORS: MISSING/BROKEN a |
| 1193 | DP( 24- 26) | MOUTH: SCAB (DID NOT EXCEED 0.5 CM X 0.5 CM) |
| 1194 | DP( 60 ) | BACK: ULCERATION (1.0 CM X 0.5 CM) |
| | DP( 61- 65) | BACK: SCAB (1.0 CM X 0.5 CM) |
| | DP( 66- 75) | LOCALIZED ALOPECIA: BACK |
| | DP( 87 ) | PENIS: RED SUBSTANCE |
| 1195 | | NO ADVERSE FINDINGS |
| 1196 | | NO ADVERSE FINDINGS |
| 1197 | DP( 8- 16) | TIP OF TAIL BLACK |
| | DP( 17- 37) | TIP OF TAIL MISSING a |
| 1198 | | NO ADVERSE FINDINGS |
| 1199 | | NO ADVERSE FINDINGS |
| 1200 | DP( 24 ) | CHROMODACRYORRHEA |
| | DP( 24- 40) | DEHYDRATION a |
| | DP( 25- 40) | ABDOMINAL DISTENTION a |
| | DP( 29- 32) | URINE-STAINED ABDOMINAL FUR |
| | DP( 29- 40) | EMACIATION a |
| | DP( 29- 40) | COLD TO TOUCH |
| | DP( 39- 40) | URINE-STAINED ABDOMINAL FUR |
| | DP( 40 ) | MORIBUND SACRIFICED |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 12): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1201 | DP( 36 ) | SOFT OR LIQUID FECES |
| 1202 | | NO ADVERSE FINDINGS |
| 1203 | DP( 69-118) | INCISORS: MISALIGNED a |
| 1204 | DP( 23- 33) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1205 | | NO ADVERSE FINDINGS |
| 1206 | | NO ADVERSE FINDINGS |
| 1207 | DP( 41- 42) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1208 | | NO ADVERSE FINDINGS |
| 1209 | DP( 35 ) | EXCESS SALIVATION |
| | DP( 47 ) | RED, DRIED, SLIGHT PERINASAL SUBSTANCE |
| 1210 | DP( 3 ) | DECREASED MOTOR ACTIVITY |
| | DP( 3 ) | EMACIATION a |
| | DP( 3 ) | COLD TO TOUCH |
| | DP( 4 ) | FOUND DEAD |
| 1211 | DP( 23- 32) | HEAD: SCAB (DID NOT EXCEED 0.4 CM IN DIAMETER) |
| | DP( 64 ) | SOFT OR LIQUID FECES |
| 1212 | | NO ADVERSE FINDINGS |
| 1213 | DP( 35- 36) | DEHYDRATION a |
| 1214 | | NO ADVERSE FINDINGS |
| 1215 | | NO ADVERSE FINDINGS |
| 1216 | DP( 35 ) | CHROMORHINORRHEA |
| | DP( 35 ) | SOFT OR LIQUID FECES |
| 1217 | | NO ADVERSE FINDINGS |
| 1218 | DP( 31 ) | SOFT OR LIQUID FECES |
| 1219 | | NO ADVERSE FINDINGS |
| 1220 | | NO ADVERSE FINDINGS |
| 1221 | DP( 34 ) | CHROMORHINORRHEA |
| | DP( 34 ) | SOFT OR LIQUID FECES |
| | DP( 63- 64) | CHROMORHINORRHEA |
| | DP( 63- 68) | CHROMODACRYORRHEA |
| | DP( 63- 68) | SNOUT: SWOLLEN |
| | DP( 63- 68) | INCISORS: MISALIGNED |
| | DP( 69-118) | INCISORS: MISALIGNED a |
| | DP( 74-118) | CHROMODACRYORRHEA a |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 13): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1222 | DP( 22- 32) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1223 | | NO ADVERSE FINDINGS |
| 1224 | DP( 2- 6) | CHROMORHINORRHEA |
| | DP( 4- 5) | EMACIATION |
| | DP( 7- 24) | ABDOMINAL DISTENTION |
| 1225 | DP( 7- 23) | ABDOMINAL DISTENTION |
| | DP( 22- 34) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1226 | DP( 22- 32) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 48- 49) | SOFT OR LIQUID FECES |
| 1227 | DP( 22- 32) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1228 | DP( 22- 32) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1229 | DP( 8 ) | SOFT OR LIQUID FECES |
| | DP( 22- 34) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 61-119) | BOTH EARS: SWOLLEN a |
| 1230 | | NO ADVERSE FINDINGS |
| 1231 | | NO ADVERSE FINDINGS |
| 1232 | | NO ADVERSE FINDINGS |
| 1233 | | NO ADVERSE FINDINGS |
| 1234 | DP( 22- 31) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1235 | | NO ADVERSE FINDINGS |
| 1236 | DP( 80 ) | CHROMODACRYORRHEA |
| 1237 | | NO ADVERSE FINDINGS |
| 1238 | | NO ADVERSE FINDINGS |
| 1239 | | NO ADVERSE FINDINGS |
| 1240 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 14): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1241 | DP( 26- 36) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1242 | | NO ADVERSE FINDINGS |
| 1243 | DP( 26- 34) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 38- 39) | HEAD: SCAB (0.2 CM IN DIAMETER)a |
| 1244 | | NO ADVERSE FINDINGS |
| 1245 | DP( 25- 26) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1246 | DP( 25- 35) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1247 | DP( 5- 7) | URINE-STAINED ABDOMINAL FUR |
| | DP( 10- 18) | ABDOMINAL DISTENTION |
| | DP( 37 ) | CHROMORHINORRHEA |
| 1248 | DP( 10- 20) | ABDOMINAL DISTENTION |
| | DP( 25- 34) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1249 | DP( 10- 20) | ABDOMINAL DISTENTION |
| | DP( 29- 42) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 37 ) | EXCESS SALIVATION |
| 1250 | DP( 5- 6) | CHROMORHINORRHEA |
| | DP( 25- 38) | ANNULAR CONSTRICTIONS OF THE TAIL a |
| 1251 | DP( 37 ) | CHROMORHINORRHEA |
| 1252 | DP( 37 ) | VOCALIZATION |
| | DP( 37 ) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1253 | DP( 37 ) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 37 ) | RALES |
| | DP( 38 ) | EMACIATION |
| 1254 | DP( 4 ) | CHROMORHINORRHEA |
| | DP( 10- 20) | ABDOMINAL DISTENTION |
| | DP( 25- 35) | ANNULAR CONSTRICTIONS OF THE TAIL |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 15): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1255 | | NO ADVERSE FINDINGS |
| 1256 | DP( 36 ) | SOFT OR LIQUID FECES |
| 1257 | DP( 36 ) | SOFT OR LIQUID FECES |
| | DP( 67 ) | PENIS: RED SUBSTANCE |
| | DP( 83- 91) | URINE-STAINED ABDOMINAL FUR |
| | DP( 84 ) | PENIS: RED SUBSTANCE |
| | DP( 87 ) | PENIS: RED SUBSTANCE |
| | DP( 92- 96) | UNGROOMED COAT |
| | DP( 93 ) | PENIS: RED SUBSTANCE |
| 1258 | DP( 3- 4) | CHROMORHINORRHEA |
| | DP( 8- 9) | CHROMORHINORRHEA |
| | DP( 24- 34) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1259 | DP( 6 ) | CHROMORHINORRHEA |
| | DP( 9- 19) | ABDOMINAL DISTENTION |
| 1260 | DP( 3 ) | DECREASED MOTOR ACTIVITY |
| | DP( 3 ) | COLD TO TOUCH |
| | DP( 3 ) | URINE-STAINED ABDOMINAL FUR |
| | DP( 4 ) | FOUND DEAD |
| 1261 | | NO ADVERSE FINDINGS |
| 1262 | DP( 24- 37) | ANNULAR CONSTRICTIONS OF THE TAIL a |
| 1263 | DP( 1 ) | DECREASED MOTOR ACTIVITY |
| | DP( 1 ) | BOTH EYES: CORNEAL OPACITY a |
| | DP( 1 ) | EMACIATION a |
| | DP( 1 ) | COLD TO TOUCH |
| | DP( 2 ) | FOUND DEAD |
| 1264 | DP( 1 ) | DECREASED MOTOR ACTIVITY |
| | DP( 1 ) | BOTH EYES: CORNEAL OPACITY a |
| | DP( 1 ) | EMACIATION |
| | DP( 1 ) | COLD TO TOUCH |
| | DP( 2 ) | FOUND DEAD |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 16): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1265 | DP( 24- 34) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1266 | DP( 36- 39) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1267 | DP( 36 ) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1268 | | NO ADVERSE FINDINGS |
| 1269 | | NO ADVERSE FINDINGS |
| 1270 | DP( 11- 16) | LACRIMATION |
| | DP( 11- 16) | RIGHT EYE: SWOLLEN |
| | DP( 36- 37) | ANNULAR CONSTRICTIONS OF THE TAIL a |
| 1271 | | NO ADVERSE FINDINGS |
| 1272 | | NO ADVERSE FINDINGS |
| 1273 | | NO ADVERSE FINDINGS |
| 1274 | DP( 49 ) | RED, DRIED, SLIGHT PERINASAL SUBSTANCE |
| | DP( 76- 77) | CHROMODACRYORRHEA |
| 1275 | DP( 26- 33) | CHROMORHINORRHEA |
| | DP( 26- 39) | DEHYDRATED a |
| | DP( 29- 39) | EMACIATION a |
| | DP( 32- 39) | DECREASED MOTOR ACTIVITY |
| | DP( 32- 39) | URINE-STAINED ABDOMINAL FUR a |
| | DP( 33- 39) | COLD TO TOUCH a |
| | DP( 39 ) | CHROMODACRYORRHEA a |
| | DP( 39 ) | MORIBUND SACRIFICED |
| 1276 | DP( 5 ) | URINE-STAINED ABDOMINAL FUR |
| 1277 | DP( 2- 3) | CHROMORHINORRHEA a |
| | DP( 3 ) | DECREASED MOTOR ACTIVITY |
| | DP( 3 ) | EMACIATION a |
| | DP( 3 ) | COLD TO TOUCH |
| | DP( 3 ) | URINE-STAINED ABDOMINAL FUR a |
| | DP( 4 ) | FOUND DEAD |
| 1278 | DP( 3- 15) | URINE-STAINED ABDOMINAL FUR |
| | DP( 5- 7) | EMACIATION |
| | DP( 8- 16) | ABDOMINAL DISTENTION |
| | DP( 23- 70) | ANNULAR CONSTRICTIONS OF THE TAIL |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 17): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1279 | DP( 8- 18) | ABDOMINAL DISTENTION |
| | DP( 28- 35) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1280 | DP( 2 ) | CHROMORHINORRHEA |
| | DP( 3 ) | FOUND DEAD |
| 1281 | DP( 16 ) | LOCALIZED ALOPECIA: LIMBS |
| | DP( 18- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DP( 61- 69) | INCISORS: MISALIGNED |
| | DP( 89 ) | CHROMORHINORRHEA |
| | DP( 89 ) | SOFT OR LIQUID FECES |
| | DP( 89- 91) | CHROMODACRYORRHEA |
| | DP( 89-119) | INCISORS: MISALIGNED a |
| | DP(102-104) | CHROMODACRYORRHEA |
| | DP(117-119) | CHROMODACRYORRHEA a |
| | DP(118-119) | INCISORS: MISSING/BROKEN a |
| 1282 | DP(118-119) | LOCALIZED ALOPECIA: LIMBS a |
| 1283 | | NO ADVERSE FINDINGS |
| 1284 | | NO ADVERSE FINDINGS |
| 1285 | DP( 22- 32) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1286 | DP( 7- 23) | ABDOMINAL DISTENTION |
| 1287 | DP( 7- 23) | ABDOMINAL DISTENTION |
| | DP( 9- 10) | CHROMORHINORRHEA |
| | DP( 59- 61) | BACK: SCAB (0.3 CM IN DIAMETER) |
| 1288 | DP( 7- 23) | ABDOMINAL DISTENTION |
| | DP( 61- 64) | SNOUT: SWOLLEN |
| | DP( 61-119) | CHROMODACRYORRHEA a |
| | DP( 61-119) | INCISORS: MISALIGNED a |
| 1289 | DP( 22- 23) | NECK: SCAB (0.5 CM IN DIAMETER) |
| 1290 | | NO ADVERSE FINDINGS |
| 1291 | | NO ADVERSE FINDINGS |
| 1292 | | NO ADVERSE FINDINGS |
| 1293 | DP( 15 ) | URINE-STAINED ABDOMINAL FUR |
| 1294 | | NO ADVERSE FINDINGS |
| 1295 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D14 (PAGE 18): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1296 | DP( 100 ) | RALES |
| | DP(100-101) | CHROMORHINORRHEA |
| | DP(100-106) | CHROMODACRYORRHEA a |
| | DP(100-106) | INCISORS: MISALIGNED a |
| | DP(103-106) | EMACIATION a |
| | DP(104-106) | URINE-STAINED ABDOMINAL FUR a |
| | DP( 107 ) | FOUND DEAD |
| 1297 | | NO ADVERSE FINDINGS |
| 1298 | | NO ADVERSE FINDINGS |
| 1299 | DP( 20- 29) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1300 | DP( 20- 29) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DP( 25- 99) | INCISORS: MISALIGNED |
| | DP( 25-117) | CHROMODACRYORRHEA a |
| | DP( 67 ) | INCISORS: MISSING/BROKEN |
| | DP( 72- 84) | INCISORS: MISSING/BROKEN |
| | DP( 91- 92) | INCISORS: MISSING/BROKEN |
| | DP(111-117) | INCISORS: MISSING/BROKEN a |

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 1): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP I | | | | | | 0 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1001 | 36. | 54. | 105. | 159. | 218. | 281. | | | | | | |
| 1002 | 39. | 69. | 118. | 176. | 233. | 289. | 337. | 387. | 424. | 461. | 487. | 524. |
| 1003 | 45. | 81. | 133. | 198. | 264. | 323. | 368. | 407. | 439. | 469. | 489. | 523. |
| 1004 | 45. | 75. | 122. | 178. | 231. | 292. | | | | | | |
| 1005 | 38. | 74. | 133. | 192. | 254. | 319. | 364. | 408. | 433. | 465. | 487. | 525. |
| 1006 | 38. | 67. | 116. | 173. | 227. | 286. | | | | | | |
| 1007 | 42. | 78. | 124. | 181. | 240. | 293. | 334. | 372. | 407. | 434. | 452. | 487. |
| 1008 | 44. | 83. | 138. | 194. | 250. | 304. | | | | | | |
| 1009 | 50. | 87. | 148. | 212. | 270. | 338. | | | | | | |
| 1010 | 41. | 69. | 116. | 169. | 225. | 279. | | | | | | |
| 1011 | 42. | 79. | 132. | 188. | 252. | 307. | 350. | 394. | 417. | 441. | 473. | 508. |
| 1012 | 49. | 84. | 123. | 175. | 230. | 282. | 320. | 387. | 422. | 460. | 485. | 537. |
| 1013 | 48. | 77. | 116. | 176. | 236. | 300. | 354. | 401. | 432. | 471. | 500. | 542. |
| 1014 | 46. | 88. | 147. | 209. | 274. | 328. | 359. | 398. | 416. | 445. | 459. | 497. |
| 1015 | 47. | 91. | 148. | 222. | 290. | 350. | | | | | | |
| 1016 | 48. | 90. | 137. | 201. | 262. | 322. | | | | | | |
| 1017 | 44. | 80. | 129. | 192. | 250. | 300. | 336. | 365. | 387. | 421. | 435. | 472. |
| 6553 | 35. | 57. | 97. | 152. | 200. | | | | | | | |
| 6554 | 45. | 80. | 131. | 185. | 227. | | | | | | | |
| 6555 | 47. | 80. | 128. | 189. | 238. | | | | | | | |
| 1021 | 53. | 85. | 131. | 201. | 259. | 318. | 367. | 411. | 449. | 491. | 520. | 559. |
| 1022 | 48. | 56. | 135. | 201. | 268. | 338. | | | | | | |
| 1023 | 31. | 57. | 104. | 164. | 215. | 269. | 319. | 368. | 412. | 451. | 483. | 524. |
| 1024 | 30. | 62. | 97. | 153. | FOUND DEAD ON DAY 25 POSTWEANING | | | | | | | |
| 1025 | 35. | 66. | 101. | 163. | 220. | 271. | | | | | | |
| 1026 | 37. | 69. | 115. | 174. | 235. | 286. | 331. | 368. | 403. | 446. | 466. | 500. |
| 1027 | 38. | 57. | 106. | 158. | 210. | 261. | | | | | | |
| 1028 | 38. | 62. | 107. | 161. | 208. | 260. | 298. | 329. | 343. | 379. | 398. | 420. |
| 1029 | 31. | MORIBUND SACRIFICED ON DAY 4 POSTWEANING | | | | | | | | | | |
| 1030 | 44. | 76. | 130. | 198. | 255. | 317. | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 2): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP I | | | | | | 0 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1031 | 46. | 79. | 132. | 192. | 253. | 315. | 364. | 407. | 445. | 474. | 491. | 518. |
| 1032 | 45. | 77. | 126. | 184. | 240. | 291. | | | | | | |
| 1033 | 31. | 55. | 92. | 144. | 198. | 249. | | | | | | |
| 1034 | 28. | 52. | 89. | 150. | 198. | 246. | 289. | 319. | 345. | 371. | 385. | 395. |
| 1035 | 40. | 65. | 110. | 161. | 219. | 267. | 299. | 313. | 349. | 372. | 385. | 406. |
| 1036 | 40. | 71. | 124. | 186. | 240. | 296. | | | | | | |
| 1037 | 39. | 63. | 108. | 161. | 211. | 262. | | | | | | |
| 1038 | 48. | 81. | 129. | 188. | 245. | | | | | | | |
| 1039 | 44. | 76. | 121. | 182. | 232. | 275. | FOUND DEAD ON DAY 42 POSTWEANING | | | | | |
| 1040 | 40. | 70. | 112. | 163. | 215. | 256. | 320. | 365. | 388. | 415. | 434. | 457. |
| 1041 | 37. | 61. | 101. | 150. | 198. | 257. | 297. | 332. | 351. | 379. | 396. | 421. |
| 1042 | 42. | 77. | 112. | 166. | 221. | | | | | | | |
| 1043 | 50. | 84. | 138. | 199. | 252. | 305. | 348. | 392. | 423. | 448. | 464. | 496. |
| 1044 | 62. | 102. | 155. | 215. | 261. | | | | | | | |
| 1045 | 58. | 90. | 141. | 201. | 256. | 307. | 348. | 379. | 406. | 422. | 432. | 458. |
| 1046 | 58. | 97. | 150. | 217. | 272. | | | | | | | |
| 1047 | 55. | 92. | 147. | 214. | 275. | 346. | 411. | 458. | 496. | 540. | 569. | 598. |
| 1048 | 43. | 77. | 126. | 191. | 256. | 322. | 368. | 420. | 456. | 504. | 520. | 548. |
| 1049 | 39. | 67. | 107. | 162. | 219. | | | | | | | |
| 1050 | 39. | 70. | 108. | 161. | 213. | 276. | 313. | 347. | 372. | 395. | 405. | 428. |
| 1051 | 46. | 85. | 139. | 205. | 270. | 333. | 373. | 427. | 461. | 491. | 512. | 545. |
| 1052 | 44. | 87. | 144. | 217. | 270. | 335. | 365. | 408. | 443. | 483. | 500. | 510. |
| 1053 | 46. | 82. | 133. | 194. | 247. | | | | | | | |
| 1054 | 50. | 89. | 139. | 202. | 267. | 331. | 365. | 412. | 429. | 451. | 477. | 505. |
| 1055 | 45. | 85. | 138. | 209. | 270. | 329. | 365. | 407. | 419. | 454. | 470. | 490. |
| 1056 | 41. | 90. | 144. | 220. | 272. | | | | | | | |
| 1057 | 36. | 66. | 118. | 177. | 240. | | | | | | | |
| 1058 | 37. | 70. | 122. | 178. | 248. | 306. | 365. | 392. | 424. | 462. | 480. | 493. |
| 1059 | 39. | 76. | 128. | 187. | 246. | 306. | 340. | 378. | 407. | 426. | 441. | 441. |
| 1060 | 39. | 68. | 123. | 183. | 231. | 279. | 304. | 344. | 376. | 395. | 415. | 415. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 3): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP I | | | | | 0 MG/KG/DAY |
|---|---|---|---|---|---|---|
| DAY 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1001 | | | | | | |
| 1002 | 507. | 504. | 537. | 530. | 547. | 556. |
| 1003 | 509. | 523. | 542. | 554. | 580. | 592. |
| 1004 | | | | | | |
| 1005 | 510. | 523. | 547. | 558. | 576. | 567. |
| 1006 | | | | | | |
| 1007 | 474. | 480. | 503. | 508. | 525. | 532. |
| 1008 | | | | | | |
| 1009 | | | | | | |
| 1010 | | | | | | |
| 1011 | 491. | 504. | 525. | 536. | 552. | 565. |
| 1012 | 518. | 541. | 560. | 577. | 595. | 621. |
| 1013 | 528. | 533. | 564. | 574. | 585. | 605. |
| 1014 | 488. | 498. | 510. | 509. | 535. | 540. |
| 1015 | | | | | | |
| 1016 | | | | | | |
| 1017 | 456. | 473. | 490. | 489. | 500. | 518. |
| 6553 | | | | | | |
| 6554 | | | | | | |
| 6555 | | | | | | |
| 1021 | 534. | 555. | 573. | 576. | 607. | 612. |
| 1022 | | | | | | |
| 1023 | 506. | 518. | 540. | 559. | 577. | 593. |
| 1024 | FOUND DEAD ON DAY 25 POSTWEANING | | | | | |
| 1025 | | | | | | |
| 1026 | 491. | 503. | 531. | 534. | 562. | 573. |
| 1027 | | | | | | |
| 1028 | 410. | 422. | 432. | 441. | 568. | 452. |
| 1029 | MORIBUND SACRIFICED ON DAY 4 POSTWEANING | | | | | |
| 1030 | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

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TABLE D15 (PAGE 4): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP I | | | | | | 0 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| DAY | 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1031 | 510. | 533. | 546. | 547. | 444. | 581. | |
| 1032 | | | | | | | |
| 1033 | | | | | | | |
| 1034 | 389. | 413. | 418. | 425. | 447. | 465. | |
| 1035 | 402. | 404. | 423. | 432. | 509. | 456. | |
| 1036 | | | | | | | |
| 1037 | | | | | | | |
| 1038 | | | | | | | |
| 1039 | FOUND DEAD ON DAY 42 POSTWEANING | | | | | | |
| 1040 | 450. | 464. | 489. | 496. | 507. | 516. | |
| 1041 | 416. | 433. | 448. | 454. | 473. | 477. | |
| 1042 | | | | | | | |
| 1043 | 492. | 486. | 506. | 525. | 529. | 540. | |
| 1044 | | | | | | | |
| 1045 | 453. | 461. | 476. | 487. | 484. | 496. | |
| 1046 | | | | | | | |
| 1047 | 596. | 593. | 621. | 641. | 667. | 682. | |
| 1048 | 542. | 545. | 582. | 594. | 603. | 624. | |
| 1049 | | | | | | | |
| 1050 | 421. | 427. | 450. | 462. | 473. | 489. | |
| 1051 | 523. | 551. | 573. | 595. | 615. | 642. | |
| 1052 | 512. | 513. | 525. | 540. | 560. | 576. | |
| 1053 | | | | | | | |
| 1054 | 495. | 514. | 523. | 540. | 545. | 555. | |
| 1055 | 483. | 503. | 510. | 532. | 546. | 562. | |
| 1056 | | | | | | | |
| 1057 | | | | | | | |
| 1058 | 497. | 506. | 526. | 537. | 541. | 548. | |
| 1059 | 455. | 470. | 436. | 449. | 440. | | |
| 1060 | 436. | 439. | 451. | 455. | 478. | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 5): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP II | | | | | | 1 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1061 | 43. | 69. | 112. | 166. | 223. | 264. | 301. | 332. | 360. | 385. | 400. | 436. |
| 1062 | 44. | 73. | 118. | 170. | 225. | 281. | | | | | | |
| 1063 | 41. | 71. | 122. | 159. | 220. | 273. | 317. | 358. | 394. | 422. | 438. | 465. |
| 1064 | 37. | FOUND DEAD ON DAY 6 POSTWEANING | | | | | | | | | | |
| 1065 | 35. | 59. | 97. | 140. | 185. | 239. | | | | | | |
| 1066 | 35. | 59. | 101. | 150. | 203. | 254. | 299. | 335. | 357. | 379. | 394. | 422. |
| 1067 | 31. | 51. | 95. | 145. | 204. | 260. | 311. | 344. | 367. | 400. | 397. | 439. |
| 1068 | 40. | 65. | 109. | 161. | 211. | 273. | | | | | | |
| 1069 | 37. | 59. | 99. | 146. | 201. | 253. | 296. | 321. | 343. | 355. | 356. | 380. |
| 1070 | 46. | 78. | 125. | 187. | 245. | 321. | | | | | | |
| 1071 | 40. | 69. | 112. | 163. | 221. | 279. | 318. | 353. | 378. | 406. | 438. | 477. |
| 1072 | 41. | 74. | 124. | 186. | 241. | 310. | | | | | | |
| 1073 | 50. | 86. | 137. | 206. | 264. | 325. | 365. | 390. | 419. | 446. | 464. | 494. |
| 1074 | 40. | 71. | 116. | 181. | 239. | 300. | | | | | | |
| 1075 | 42. | 74. | 128. | 190. | 242. | 312. | | | | | | |
| 1076 | 47. | 83. | 132. | 195. | 258. | 322. | | | | | | |
| 1077 | 44. | 80. | 131. | 195. | 252. | 313. | 347. | 382. | 408. | 443. | 467. | 490. |
| 1078 | 48. | 86. | 148. | 206. | 264. | 332. | 372. | 404. | 439. | 474. | 496. | 538. |
| 1079 | 33. | 60. | 97. | 150. | 205. | 254. | | | | | | |
| 1080 | 48. | 78. | 128. | 193. | 245. | 296. | | | | | | |
| 1081 | 48. | 79. | 130. | 193. | 254. | 313. | 350. | 381. | 397. | 425. | 453. | 481. |
| 1082 | 41. | 72. | 116. | 172. | 228. | 286. | 328. | 366. | 404. | 436. | 462. | 512. |
| 1083 | 37. | 66. | 113. | 165. | 220. | 280. | 322. | 347. | 387. | 416. | 442. | 477. |
| 1084 | 37. | 67. | 112. | 165. | 216. | 268. | | | | | | |
| 1085 | 32. | 55. | 95. | 146. | 190. | 245. | | | | | | |
| 1086 | 33. | 60. | 101. | 152. | 196. | 245. | 282. | 306. | 328. | 345. | 357. | 329. |
| 1087 | 43. | 83. | 132. | 194. | 258. | 322. | 361. | FOUND DEAD ON DAY 45 POSTWEANING | | | | |
| 1088 | 42. | 81. | 134. | 196. | 254. | 315. | 349. | 378. | 410. | 446. | 465. | 494. |
| 1089 | 35. | 80. | 127. | 181. | 238. | 300. | | | | | | |
| 1090 | 36. | 64. | 111. | 152. | 201. | 246. | 288. | 323. | 355. | 387. | 400. | 452. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 6): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP II | | | | | | 1 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1091 | 39. | 70. | 117. | 178. | 233. | 293. | 334. | 372. | 395. | 419. | 435. | 464. |
| 1092 | 44. | 78. | 126. | 186. | 246. | 303. | | | | | | |
| 1093 | 40. | 73. | 125. | 179. | 242. | 294. | | | | | | |
| 1094 | 36. | 71. | 111. | 168. | 226. | 278. | 330. | 370. | 402. | 440. | 470. | 509. |
| 1095 | 40. | 73. | 123. | 184. | 244. | 310. | | | | | | |
| 1096 | 39. | 69. | 118. | 178. | 234. | 293. | 336. | 386. | 422. | 459. | 491. | 521. |
| 1097 | 42. | 66. | 108. | 165. | 224. | 272. | | | | | | |
| 1098 | 37. | 75. | 123. | 178. | 239. | 293. | 332. | 366. | 390. | 412. | 424. | 445. |
| 1099 | 39. | 76. | 125. | 187. | 254. | 271. | | | | | | |
| 1100 | 56. | 94. | 142. | 196. | 248. | 295. | 335. | 359. | 379. | 402. | 414. | 440. |
| 1101 | 63. | 92. | 142. | 193. | 249. | 310. | | | | | | |
| 1102 | 45. | 78. | 135. | 195. | 257. | 313. | | | | | | |
| 1103 | 33. | 71. | 128. | 190. | 245. | 302. | 345. | 388. | 418. | 450. | 469. | 501. |
| 1104 | 23. | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | |
| 1105 | 32. | 57. | 101. | 151. | 210. | 275. | | | | | | |
| 1106 | 30. | 52. | 92. | 136. | 184. | 229. | 276. | 311. | 348. | 387. | 404. | 438. |
| 1107 | 44. | 75. | 118. | 172. | 220. | 268. | 307. | 337. | 360. | 381. | 393. | 409. |
| 1108 | 48. | 79. | 125. | 184. | 231. | 281. | | | | | | |
| 1109 | 45. | 72. | 120. | 170. | 223. | 284. | | | | | | |
| 1110 | 40. | 62. | 107. | 161. | 212. | 262. | 298. | 325. | 343. | 368. | 373. | 392. |
| 1111 | 38. | 59. | 106. | 173. | 230. | 286. | | | | | | |
| 1112 | 50. | 87. | 137. | 201. | 266. | 324. | 364. | 396. | 426. | 453. | 487. | 520. |
| 1113 | 49. | 86. | 131. | 202. | 265. | | | | | | | |
| 1114 | 48. | 84. | 134. | 194. | 257. | 307. | 353. | 382. | 409. | 451. | 479. | 496. |
| 1115 | 35. | 65. | 102. | 165. | 220. | | | | | | | |
| 1116 | 35. | 67. | 108. | 165. | 224. | 381. | 330. | 369. | 399. | 424. | 445. | 471. |
| 1117 | 47. | 75. | 118. | 177. | 231. | | | | | | | |
| 1118 | 52. | 84. | 126. | 188. | 242. | 265. | 346. | 372. | 402. | 432. | 444. | 477. |
| 1119 | 43. | 77. | 120. | 184. | 232. | | | | | | | |
| 1120 | 43. | 74. | 121. | 182. | 239. | 291. | 342. | 378. | 408. | 432. | 448. | 467. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 7): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP II | | | | | | 1 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| DAY | 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1061 | 421. | 438. | 449. | 459. | 468. | 478. | |
| 1062 | | | | | | | |
| 1063 | 455. | 465. | 478. | 490. | 511. | 509. | |
| 1064 | FOUND DEAD ON DAY 6 POSTWEANING | | | | | | |
| 1065 | | | | | | | |
| 1066 | 406. | 423. | 428. | 438. | 455. | 466. | |
| 1067 | 419. | 428. | 448. | 451. | 475. | 464. | |
| 1068 | | | | | | | |
| 1069 | 369. | 370. | 389. | 399. | 416. | 413. | |
| 1070 | | | | | | | |
| 1071 | 465. | 473. | 491. | 512. | 511. | 525. | |
| 1072 | | | | | | | |
| 1073 | 484. | 495. | 505. | 518. | 520. | 525. | |
| 1074 | | | | | | | |
| 1075 | | | | | | | |
| 1076 | | | | | | | |
| 1077 | 480. | 485. | 506. | 511. | 538. | 542. | |
| 1078 | 518. | 555. | 562. | 579. | 595. | 625. | |
| 1079 | | | | | | | |
| 1080 | | | | | | | |
| 1081 | 469. | 476. | 489. | 501. | 517. | 528. | |
| 1082 | 492. | 503. | 530. | 557. | 569. | 558. | |
| 1083 | 462. | 462. | 479. | 492. | 507. | 521. | |
| 1084 | | | | | | | |
| 1085 | | | | | | | |
| 1086 | 375. | 323. | 364. | 386. | 372. | 402. | |
| 1087 | FOUND DEAD ON DAY 45 POSTWEANING | | | | | | |
| 1088 | 480. | 497. | 505. | 526. | 533. | 556. | |
| 1089 | | | | | | | |
| 1090 | 433. | 459. | 478. | 496. | 496. | 516. | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

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TABLE D15 (PAGE 8): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP II | | | | | | 1 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| DAY | 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1091 | 452. | 460. | 474. | 489. | 494. | 504. | 512. |
| 1092 | | | | | | | |
| 1093 | | | | | | | |
| 1094 | 500. | 509. | 533. | 554. | 573. | 573. | 594. |
| 1095 | | | | | | | |
| 1096 | 506. | 519. | 543. | 566. | 582. | 603. | 632. |
| 1097 | | | | | | | |
| 1098 | 438. | 440. | 458. | 465. | 475. | 474. | 498. |
| 1099 | | | | | | | |
| 1100 | 429. | 434. | 454. | 471. | 479. | 485. | 494. |
| 1101 | | | | | | | |
| 1102 | | | | | | | |
| 1103 | 490. | 503. | 521. | 535. | 551. | 562. | |
| 1104 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | |
| 1105 | | | | | | | |
| 1106 | 432. | 436. | 456. | 479. | 492. | 503. | |
| 1107 | 403. | 407. | 419. | 429. | 434. | 440. | 446. |
| 1108 | | | | | | | |
| 1109 | | | | | | | |
| 1110 | 389. | 396. | 400. | 409. | 425. | 429. | 437. |
| 1111 | | | | | | | |
| 1112 | 513. | 521. | 541. | 545. | 559. | 571. | |
| 1113 | | | | | | | |
| 1114 | 496. | 499. | 518. | 531. | 543. | 549. | |
| 1115 | | | | | | | |
| 1116 | 465. | 484. | 496. | 511. | 527. | 541. | |
| 1117 | | | | | | | |
| 1118 | 472. | 478. | 488. | 503. | 511. | 517. | |
| 1119 | | | | | | | |
| 1120 | 460. | 463. | 486. | 496. | 506. | 511. | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 9): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP III | | | | | | 3 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1121 | 35. | FOUND DEAD ON DAY 5 POSTWEANING | | | | | | | | | | |
| 1122 | 39. | 74. | 120. | 186. | 247. | 300. | 337. | 376. | 407. | 431. | 448. | 480. |
| 1123 | 39. | 78. | 132. | 195. | 249. | 309. | 345. | 379. | 419. | 452. | 472. | 517. |
| 1124 | 31. | 64. | 112. | 178. | 239. | 297. | | | | | | |
| 1125 | 33. | 56. | 99. | 154. | 208. | 274. | | | | | | |
| 1126 | 34. | 60. | 103. | 152. | 205. | 269. | | | | | | |
| 1127 | 35. | 58. | 102. | 153. | 205. | 258. | 303. | 339. | 354. | 375. | 389. | 407. |
| 1128 | 39. | 72. | 125. | 191. | 248. | 312. | | | | | | |
| 1129 | 36. | 62. | 102. | 167. | 228. | 288. | 325. | 360. | 390. | 422. | 436. | 473. |
| 1130 | 24. | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | |
| 1131 | 32. | 56. | 102. | 160. | 226. | 287. | 344. | 392. | 427. | 457. | 469. | 495. |
| 1132 | 42. | 72. | 117. | 179. | 233. | 283. | 318. | 354. | 390. | 419. | 441. | 474. |
| 1133 | 45. | 77. | 116. | 173. | 225. | 280. | | | | | | |
| 1134 | 53. | 88. | 142. | 213. | 270. | 340. | 367. | 406. | 438. | 467. | 483. | 520. |
| 1135 | 51. | 87. | 140. | 204. | 266. | 317. | 338. | 362. | 380. | 398. | 421. | 450. |
| 1136 | 40. | 76. | 129. | 184. | 233. | 288. | 326. | 360. | 386. | 406. | 418. | 439. |
| 1137 | 40. | 80. | 131. | 197. | 252. | 306. | | | | | | |
| 1138 | 46. | 85. | 140. | 204. | 273. | 328. | | | | | | |
| 1139 | 47. | 78. | 128. | 192. | 252. | 305. | 327. | 352. | 377. | 395. | 400. | 417. |
| 1140 | 37. | 55. | FOUND DEAD ON DAY 9 POSTWEANING | | | | | | | | | |
| 1141 | 35. | 63. | 109. | 164. | 222. | 281. | 322. | 364. | 398. | 426. | 451. | 494. |
| 1142 | 32. | 58. | 99. | 151. | 203. | 256. | 298. | 331. | 352. | 383. | 402. | 433. |
| 1143 | 35. | 67. | 110. | 168. | 225. | 283. | | | | | | |
| 1144 | 34. | 52. | 92. | 146. | 191. | 248. | | | | | | |
| 1145 | 42. | 68. | 110. | 163. | 211. | 245. | 276. | 297. | 315. | 339. | 354. | 376. |
| 1146 | 56. | 85. | 136. | 196. | 257. | 313. | | | | | | |
| 1147 | 53. | 85. | 141. | 194. | 250. | 304. | 335. | 381. | 413. | 441. | 469. | 485. |
| 1148 | 56. | 94. | 144. | 198. | 251. | 299. | | | | | | |
| 1149 | 54. | 96. | 145. | 201. | 249. | 304. | 338. | 371. | 391. | 417. | 432. | 458. |
| 1150 | 46. | 77. | 124. | 182. | 234. | 277. | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.

b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 10): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP III | | | | | 3 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1151 | 54. | 100. | 158. | 226. | 293. | 338. | 384. | 418. | 455. | 488. | 514. | 544. |
| 1152 | 52. | 92. | 145. | 207. | 269. | 328. | | | | | | |
| 1153 | 49. | 86. | 145. | 207. | 261. | 317. | 355. | 390. | 428. | 453. | 474. | 495. |
| 1154 | 63. | 99. | 160. | 228. | 292. | 346. | 389. | 429. | 456. | 482. | 499. | 514. |
| 1155 | 59. | 98. | 151. | 216. | 282. | 345. | | | | | | |
| 1156 | 36. | 66. | 121. | 189. | 253. | 327. | | | | | | |
| 1157 | 36. | 73. | 122. | 186. | 242. | 300. | | | | | | |
| 1158 | 36. | 70. | 124. | 183. | 238. | 291. | 328. | 343. | 391. | 422. | 445. | 473. |
| 1159 | 50. | 94. | 152. | 226. | 291. | 345. | 385. | 419. | 448. | 471. | 489. | 525. |
| 1160 | 48. | 93. | 147. | 215. | 277. | 339. | | | | | | |
| 1161 | 53. | 96. | 148. | 216. | 277. | 339. | | | | | | |
| 1162 | 46. | 79. | 126. | 177. | 238. | 291. | 332. | 377. | 399. | 421. | 438. | 462. |
| 1163 | 46. | 77. | 120. | 171. | 231. | 288. | | | | | | |
| 1164 | 50. | 93. | 152. | 222. | 274. | 326. | 359. | 392. | 417. | 446. | 458. | 477. |
| 1165 | 49. | 87. | 148. | 211. | 272. | 336. | | | | | | |
| 1166 | 30. | 46. | 82. | 120. | 172. | 228. | 280. | 319. | | | | |
| 1167 | 30. | 49. | 86. | 137. | 189. | 248. | 298. | 338. | 381. | 416. | 435. | 467. |
| 1168 | 36. | 63. | 102. | 159. | 215. | 274. | 325. | 368. | 399. | 427. | 452. | 483. |
| 1169 | 34. | 59. | 95. | 144. | 193. | | | | | | | |
| 1170 | 36. | 64. | 104. | 155. | 202. | | | | | | | |
| 1171 | 36. | 66. | 108. | 164. | 214. | 265. | 294. | 313. | 332. | 353. | 368. | 384. |
| 1172 | 55. | 95. | 144. | 204. | 261. | | | | | | | |
| 1173 | 46. | 87. | 137. | 190. | 241. | 300. | 342. | 370. | 407. | 439. | 451. | 477. |
| 1174 | 58. | 96. | 161. | 231. | 293. | | | | | | | |
| 1175 | 58. | 98. | 149. | 213. | 275. | 340. | 385. | 414. | 390. | 396. | 413. | 432. |
| 1176 | 47. | 80. | 125. | 177. | 225. | 279. | 324. | 360. | 391. | 416. | 434. | 461. |
| 1177 | 64. | 103. | 156. | 220. | 275. | 330. | 371. | 392. | 401. | 416. | 437. | 443. |
| 1178 | 65. | 101. | 155. | 220. | 274. | | | | | | | |
| 1179 | 42. | 72. | 126. | 184. | 239. | | | | | | | |
| 1180 | 45. | 80. | 135. | 196. | 255. | 312. | 356. | 395. | 430. | 448. | 475. | 490. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.

b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 11): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP III | | | | | | 3 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| DAY | 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1121 | FOUND DEAD ON DAY 5 POSTWEANING | | | | | | |
| 1122 | 462. | 471. | 491. | 497. | 513. | 509. | |
| 1123 | 505. | 508. | 535. | 504. | 498. | 503. | |
| 1124 | | | | | | | |
| 1125 | | | | | | | |
| 1126 | | | | | | | |
| 1127 | 399. | 408. | 414. | 425. | 437. | 447. | |
| 1128 | | | | | | | |
| 1129 | 450. | 480. | 505. | 517. | 536. | 557. | |
| 1130 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | |
| 1131 | 476. | 492. | 512. | 517. | 538. | 556. | |
| 1132 | 465. | 476. | 490. | 507. | 524. | 540. | |
| 1133 | | | | | | | |
| 1134 | 507. | 512. | 530. | 542. | 561. | 580. | |
| 1135 | 440. | 445. | 465. | 482. | 489. | 505. | |
| 1136 | 430. | 431. | 451. | 456. | 472. | 419. | |
| 1137 | | | | | | | |
| 1138 | | | | | | | |
| 1139 | 405. | 412. | 428. | 436. | 443. | 453. | |
| 1140 | FOUND DEAD ON DAY 9 POSTWEANING | | | | | | |
| 1141 | 476. | 485. | 510. | 526. | 545. | 562. | |
| 1142 | 423. | 422. | 443. | 460. | 475. | 489. | |
| 1143 | | | | | | | |
| 1144 | | | | | | | |
| 1145 | 372. | 377. | 383. | 394. | 405. | 411. | |
| 1146 | | | | | | | |
| 1147 | 483. | 477. | 512. | 520. | 530. | 494. | |
| 1148 | | | | | | | |
| 1149 | 445. | 457. | 474. | 487. | 497. | 501. | |
| 1150 | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 12): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP III | | | | | | 3 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| DAY | 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1151 | 530. | 532. | 556. | 560. | 579. | 576. | 588. |
| 1152 | | | | | | | |
| 1153 | 486. | 500. | 505. | 516. | 516. | 528. | 539. |
| 1154 | 504. | 511. | 527. | 542. | 561. | 567. | 580. |
| 1155 | | | | | | | |
| 1156 | | | | | | | |
| 1157 | | | | | | | |
| 1158 | 456. | 475. | 490. | 512. | 514. | 523. | |
| 1159 | 515. | 524. | 536. | 551. | 566. | 573. | |
| 1160 | | | | | | | |
| 1161 | | | | | | | |
| 1162 | 456. | 455. | 482. | 496. | 512. | 531. | |
| 1163 | | | | | | | |
| 1164 | 477. | 478. | 491. | 502. | 498. | 509. | |
| 1165 | | | | | | | |
| 1166 | | | | | | | |
| 1167 | 459. | 486. | 507. | 526. | 541. | 555. | |
| 1168 | 478. | 486. | 516. | 529. | 548. | 554. | |
| 1169 | | | | | | | |
| 1170 | | | | | | | |
| 1171 | 377. | 388. | 405. | 417. | 427. | 432. | |
| 1172 | | | | | | | |
| 1173 | 472. | 481. | 496. | 512. | 518. | 524. | |
| 1174 | | | | | | | |
| 1175 | 432. | 436. | 451. | 472. | 478. | 469. | |
| 1176 | 453. | 465. | 480. | 491. | 460. | 471. | |
| 1177 | 442. | 450. | 463. | 480. | 457. | 466. | |
| 1178 | | | | | | | |
| 1179 | | | | | | | |
| 1180 | 480. | 518. | 541. | 545. | 570. | 565. | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 13): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP IV | | | | | | 10 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1181 | 47. | 76. | 121. | 183. | 231. | 283. | | | | | | |
| 1182 | 46. | 77. | 123. | 189. | 243. | 292. | 324. | 353. | 370. | 400. | 410. | 434. |
| 1183 | 34. | 58. | 102. | 158. | 214. | 255. | | | | | | |
| 1184 | 35. | 60. | 101. | 161. | 221. | 269. | 308. | 346. | 374. | 401. | 426. | 472. |
| 1185 | 33. | 54. | 90. | 134. | 181. | 227. | | | | | | |
| 1186 | 31. | 54. | 92. | 143. | 199. | 245. | 292. | 330. | 354. | 381. | 407. | 430. |
| 1187 | 46. | 80. | 131. | 190. | 247. | 296. | | | | | | |
| 1188 | 48. | 82. | 142. | 204. | 244. | 293. | 323. | 346. | 371. | 383. | 386. | 401. |
| 1189 | 43. | 78. | 130. | 202. | 266. | 338. | 391. | 435. | 454. | 467. | 490. | 521. |
| 1190 | 47. | 88. | 149. | 218. | 288. | 361. | | | | | | |
| 1191 | 45. | 77. | 124. | 182. | 236. | 282. | | | | | | |
| 1192 | 45. | 79. | 120. | 183. | 238. | 290. | 322. | 364. | 390. | 418. | 443. | 462. |
| 1193 | 50. | 90. | 135. | 201. | 254. | 303. | | | | | | |
| 1194 | 48. | 84. | 132. | 198. | 262. | 311. | 354. | 385. | 415. | 440. | 463. | 490. |
| 1195 | 47. | 83. | 125. | 183. | 233. | 283. | 320. | 351. | 377. | 399. | 415. | 441. |
| 1196 | 48. | 78. | 120. | 179. | 233. | 282. | | | | | | |
| 1197 | 55. | 83. | 125. | 178. | 230. | 280. | | | | | | |
| 1198 | 61. | 100. | 151. | 218. | 282. | 348. | 404. | 450. | 497. | 541. | 573. | 607. |
| 1199 | 43. | 70. | 109. | 161. | 207. | 245. | | | | | | |
| 1200 | 41. | 71. | 117. | 144. | 134. | 116. | MORIBUND SACRIFICED ON DAY 40 POSTWEANING | | | | | |
| 1201 | 45. | 95. | 127. | 183. | 235. | 285. | | | | | | |
| 1202 | 46. | 76. | 126. | 187. | 242. | 297. | | | | | | |
| 1203 | 35. | 70. | 116. | 178. | 238. | 282. | 314. | 346. | 372. | 397. | 402. | 422. |
| 1204 | 44. | 76. | 116. | 186. | 240. | 291. | 334. | 354. | 383. | 406. | 413. | 433. |
| 1205 | 43. | 70. | 112. | 176. | 227. | 288. | | | | | | |
| 1206 | 36. | 66. | 109. | 168. | 215. | 277. | | | | | | |
| 1207 | 40. | 66. | 102. | 158. | 207. | 263. | 306. | 339. | 361. | 393. | 413. | 444. |
| 1208 | 53. | 82. | 137. | 198. | 252. | 315. | | | | | | |
| 1209 | 49. | 83. | 135. | 198. | 246. | 306. | 351. | 381. | 414. | 447. | 463. | 478. |
| 1210 | 41. | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 14): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP IV | | | | | | 10 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1211 | 38. | 61. | 102. | 161. | 204. | 254. | 287. | 320. | 336. | 358. | 372. | 400. |
| 1212 | 51. | 89. | 149. | 222. | 280. | 330. | 373. | 416. | 440. | 473. | 483. | 497. |
| 1213 | 52. | 90. | 143. | 204. | 260. | 193. | | | | | | |
| 1214 | 47. | 83. | 136. | 200. | 255. | 306. | | | | | | |
| 1215 | 43. | 82. | 135. | 204. | 260. | 315. | 351. | 390. | 413. | 439. | 455. | 476. |
| 1216 | 42. | 76. | 122. | 186. | 236. | 291. | 334. | 370. | 404. | 439. | 449. | 476. |
| 1217 | 42. | 77. | 128. | 183. | 241. | 296. | 336. | 372. | 401. | 428. | 436. | 459. |
| 1218 | 36. | 63. | 108. | 166. | 214. | 269. | | | | | | |
| 1219 | 35. | 62. | 104. | 150. | 188. | 238. | 274. | 297. | 309. | 326. | 338. | 364. |
| 1220 | 55. | 84. | 135. | 190. | 242. | | | | | | | |
| 1221 | 52. | 83. | 126. | 177. | 233. | 273. | 303. | 334. | 363. | 335. | 373. | 386. |
| 1222 | 52. | 88. | 134. | 197. | 246. | 302. | 333. | 362. | 384. | 404. | 414. | 432. |
| 1223 | 50. | 85. | 132. | 198. | 256. | | | | | | | |
| 1224 | 35. | 52. | 80. | 123. | 177. | 221. | 274. | 301. | 332. | 364. | 389. | 424. |
| 1225 | 35. | 54. | 92. | 139. | 196. | 251. | 291. | 310. | 342. | 370. | 387. | 399. |
| 1226 | 48. | 82. | 132. | 199. | 256. | 305. | 345. | 369. | 387. | 406. | 422. | 451. |
| 1227 | 48. | 80. | 130. | 188. | 232. | | | | | | | |
| 1228 | 42. | 70. | 111. | 157. | 204. | | | | | | | |
| 1229 | 39. | 68. | 110. | 159. | 202. | 253. | 276. | 306. | 324. | 346. | 365. | 390. |
| 1230 | 38. | 65. | 108. | 155. | 203. | | | | | | | |
| 1231 | 35. | 77. | 127. | 190. | 242. | | | | | | | |
| 1232 | 48. | 84. | 128. | 184. | 226. | 259. | 290. | 298. | 312. | 329. | 336. | 346. |
| 1233 | 55. | 89. | 140. | 205. | 259. | 319. | 354. | 400. | 421. | 462. | 484. | 508. |
| 1234 | 54. | 93. | 149. | 212. | 267. | | | | | | | |
| 1235 | 47. | 78. | 125. | 179. | 236. | | | | | | | |
| 1236 | 46. | 77. | 129. | 196. | 245. | 301. | 343. | 383. | 403. | 432. | 442. | 454. |
| 1237 | 39. | 66. | 104. | 158. | 207. | 253. | 273. | 288. | 305. | 326. | 338. | 353. |
| 1238 | 44. | 75. | 126. | 191. | 246. | | | | | | | |
| 1239 | 49. | 83. | 132. | 193. | 246. | | | | | | | |
| 1240 | 51. | 85. | 136. | 194. | 246. | 293. | 328. | 362. | 394. | 424. | 440. | 463. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 15): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP IV | | | | | 10 MG/KG/DAY |
|---|---|---|---|---|---|---|
| DAY 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1181 | | | | | | |
| 1182 | 427. | 424. | 440. | 438. | 445. | 460. |
| 1183 | | | | | | |
| 1184 | 450. | 462. | 485. | 501. | 509. | 533. |
| 1185 | | | | | | |
| 1186 | 423. | 440. | 453. | 454. | 479. | 488. |
| 1187 | | | | | | |
| 1188 | 415. | 391. | 425. | 446. | 457. | 470. |
| 1189 | 506. | 510. | 532. | 547. | 574. | 582. |
| 1190 | | | | | | |
| 1191 | | | | | | |
| 1192 | 452. | 450. | 466. | 476. | 492. | 488. |
| 1193 | | | | | | |
| 1194 | 477. | 494. | 507. | 513. | 523. | 534. |
| 1195 | 435. | 446. | 466. | 480. | 495. | 498. |
| 1196 | | | | | | |
| 1197 | | | | | | |
| 1198 | 595. | 607. | 633. | 638. | 679. | 661. |
| 1199 | | | | | | |
| 1200 | MORIBUND SACRIFICED ON DAY 40 POSTWEANING | | | | | |
| 1201 | | | | | | |
| 1202 | | | | | | |
| 1203 | 411. | 428. | 441. | 455. | 469. | 483. |
| 1204 | 430. | 430. | 444. | 451. | 473. | 473. |
| 1205 | | | | | | |
| 1206 | | | | | | |
| 1207 | 432. | 447. | 461. | 473. | 483. | 489. |
| 1208 | | | | | | |
| 1209 | 472. | 481. | 494. | 504. | 517. | 526. |
| 1210 | FOUND DEAD ON DAY 4 POSTWEANING | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

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TABLE D15 (PAGE 16): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP IV | | | | | | 10 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| | DAY 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1211 | 388. | 396. | 412. | 428. | 447. | 455. | |
| 1212 | 491. | 497. | 510. | 538. | 542. | 561. | |
| 1213 | | | | | | | |
| 1214 | | | | | | | |
| 1215 | 471. | 470. | 480. | 492. | 501. | 512. | |
| 1216 | 471. | 468. | 484. | 500. | 507. | 522. | |
| 1217 | 458. | 452. | 472. | 480. | 498. | 503. | |
| 1218 | | | | | | | |
| 1219 | 357. | 346. | 373. | 382. | 400. | 402. | |
| 1220 | | | | | | | |
| 1221 | 382. | 372. | 403. | 404. | 413. | 414. | |
| 1222 | 427. | 446. | 457. | 480. | 492. | 502. | |
| 1223 | | | | | | | |
| 1224 | 414. | 424. | 450. | 466. | 486. | 490. | |
| 1225 | 393. | 396. | 414. | 429. | 424. | 429. | |
| 1226 | 443. | 455. | 471. | 484. | 489. | 500. | |
| 1227 | | | | | | | |
| 1228 | | | | | | | |
| 1229 | 386. | 392. | 392. | 402. | 407. | 411. | |
| 1230 | | | | | | | |
| 1231 | | | | | | | |
| 1232 | 338. | 348. | 352. | 360. | 365. | 366. | |
| 1233 | 503. | 509. | 526. | 545. | 544. | 556. | |
| 1234 | | | | | | | |
| 1235 | | | | | | | |
| 1236 | 452. | 455. | 454. | 464. | 465. | 480. | |
| 1237 | 350. | 341. | 357. | 367. | 386. | 381. | |
| 1238 | | | | | | | |
| 1239 | | | | | | | |
| 1240 | 454. | 458. | 468. | 489. | 492. | 493. | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 17): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP V | | | | | | 30 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1241 | 35. | 60. | 100. | 157. | 216. | 269. | 330. | 369. | 397. | 432. | 448. | 465. |
| 1242 | 34. | 61. | 102. | 158. | 216. | 260. | | | | | | |
| 1243 | 34. | 51. | 91. | 147. | 202. | 235. | | | | | | |
| 1244 | 36. | 68. | 113. | 176. | 237. | 289. | 329. | 359. | 374. | 402. | 422. | 446. |
| 1245 | 41. | 70. | 119. | 180. | 244. | 311. | 354. | 397. | 407. | 421. | 428. | 457. |
| 1246 | 36. | 65. | 100. | 156. | 216. | 262. | | | | | | |
| 1247 | 32. | 54. | 85. | 136. | 190. | 235. | 278. | 310. | 339. | 365. | 382. | 399. |
| 1248 | 28. | 48. | 80. | 129. | 179. | 222. | 254. | 278. | 305. | 317. | 324. | 336. |
| 1249 | 30. | 46. | 82. | 132. | 177. | 229. | 268. | 300. | 330. | 346. | 348. | 360. |
| 1250 | 43. | 64. | 101. | 148. | 183. | 211. | | | | | | |
| 1251 | 38. | 77. | 126. | 172. | 213. | 248. | | | | | | |
| 1252 | 41. | 71. | 118. | 170. | 209. | 243. | 272. | 281. | 304. | 323. | 340. | 359. |
| 1253 | 45. | 70. | 107. | 160. | 204. | 247. | | | | | | |
| 1254 | 39. | 58. | 92. | 145. | 194. | 229. | 258. | 278. | 288. | 311. | 328. | 350. |
| 1255 | 48. | 85. | 133. | 187. | 241. | 289. | 330. | 365. | 381. | 401. | 410. | 441. |
| 1256 | 48. | 86. | 132. | 186. | 240. | 290. | | | | | | |
| 1257 | 43. | 71. | 112. | 168. | 231. | 274. | 309. | 351. | 381. | 406. | 416. | 420. |
| 1258 | 41. | 61. | 97. | 146. | 182. | 204. | | | | | | |
| 1259 | 26. | 47. | 69. | 118. | 171. | 214. | 253. | 290. | 312. | 337. | 353. | 371. |
| 1260 | 24. | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | | |
| 1261 | 43. | 68. | 103. | 151. | 199. | 232. | 260. | 286. | 322. | 349. | 359. | 377. |
| 1262 | 45. | 71. | 109. | 162. | 208. | 248. | | | | | | |
| 1263 | 25. | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | |
| 1264 | 24. | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | |
| 1265 | 40. | 66. | 99. | 150. | 198. | 242. | | | | | | |
| 1266 | 42. | 71. | 107. | 157. | 213. | 255. | 282. | 306. | 321. | 340. | 352. | 369. |
| 1267 | 42. | 73. | 113. | 165. | 219. | 269. | | | | | | |
| 1268 | 47. | 83. | 120. | 181. | 235. | 272. | | | | | | |
| 1269 | 47. | 86. | 128. | 197. | 255. | 288. | 331. | 356. | 391. | 417. | 418. | 442. |
| 1270 | 59. | 99. | 142. | 191. | 242. | 269. | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.

b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 18): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP V | | | | | | 30 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1271 | 60. | 100. | 152. | 205. | 256. | 298. | 330. | 362. | 388. | 410. | 436. | 469. |
| 1272 | 42. | 66. | 102. | 155. | 201. | 238. | | | | | | |
| 1273 | 39. | 63. | 100. | 147. | 199. | 239. | 265. | 282. | 299. | 320. | 334. | 355. |
| 1274 | 47. | 77. | 127. | 184. | 242. | 285. | 323. | 348. | 376. | 412. | 440. | 456. |
| 1275 | 42. | 69. | 117. | 162. | 145. | 116. | MORIBUND SACRIFICED ON DAY 39 POSTWEANING | | | | | |
| 1276 | 45. | 72. | 111. | 169. | 199. | 244. | | | | | | |
| 1277 | 25. | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | | |
| 1278 | 27. | 40. | 67. | 108. | 144. | 172. | 205. | 243. | 261. | 289. | 301. | 324. |
| 1279 | 33. | 52. | 83. | 130. | 187. | 234. | | | | | | |
| 1280 | 34. | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | | |
| 1281 | 36. | 70. | 113. | 167. | 214. | 261. | 294. | 320. | 354. | 374. | 388. | 414. |
| 1282 | 50. | 79. | 122. | 175. | 223. | 260. | 287. | 293. | 298. | 307. | 323. | 346. |
| 1283 | 51. | 81. | 124. | 171. | 232. | 276. | | | | | | |
| 1284 | 46. | 71. | 108. | 164. | 210. | 256. | 283. | 302. | 322. | 346. | 359. | 389. |
| 1285 | 45. | 70. | 111. | 170. | 188. | | | | | | | |
| 1286 | 32. | 55. | 85. | 138. | 187. | | | | | | | |
| 1287 | 36. | 56. | 88. | 137. | 181. | 238. | 278. | 316. | 338. | 359. | 372. | 376. |
| 1288 | 29. | 52. | 85. | 130. | 182. | 226. | 264. | 286. | 311. | 323. | 338. | 350. |
| 1289 | 48. | 77. | 119. | 180. | 234. | 278. | 316. | 331. | 350. | 376. | 386. | 388. |
| 1290 | 47. | 80. | 125. | 185. | 239. | 284. | 318. | 336. | 354. | 374. | 390. | 392. |
| 1291 | 45. | 76. | 124. | 178. | 224. | 259. | 289. | 303. | 312. | 329. | 336. | 353. |
| 1292 | 50. | 87. | 134. | 185. | 232. | | | | | | | |
| 1293 | 49. | 84. | 114. | 167. | 224. | | | | | | | |
| 1294 | 49. | 81. | 112. | 172. | 229. | 270. | 310. | 344. | 350. | 367. | 388. | 401. |
| 1295 | 52. | 79. | 123. | 182. | 237. | | | | | | | |
| 1296 | 49. | 76. | 119. | 180. | 218. | 261. | 304. | 329. | 349. | 370. | 376. | 394. |
| 1297 | 38. | 67. | 114. | 167. | 220. | | | | | | | |
| 1298 | 36. | 65. | 106. | 158. | 203. | 242. | 264. | 294. | 300. | 312. | 318. | 341. |
| 1299 | 44. | 75. | 122. | 182. | 239. | | | | | | | |
| 1300 | 42. | 76. | 120. | 177. | 210. | 267. | 300. | 334. | 341. | 371. | 368. | 391. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE D15 (PAGE 19): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP V | | | | | | 30 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| DAY | 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1241 | 456. | 457. | 461. | 477. | 476. | 441. | |
| 1242 | | | | | | | |
| 1243 | | | | | | | |
| 1244 | 432. | 436. | 466. | 469. | 486. | 492. | |
| 1245 | 435. | 449. | 472. | 477. | 480. | 490. | |
| 1246 | | | | | | | |
| 1247 | 394. | 398. | 413. | 418. | 427. | 439. | |
| 1248 | 332. | 338. | 356. | 358. | 368. | 377. | |
| 1249 | 355. | 353. | 364. | 372. | 383. | 378. | |
| 1250 | | | | | | | |
| 1251 | | | | | | | |
| 1252 | 354. | 352. | 365. | 382. | 396. | 403. | |
| 1253 | | | | | | | |
| 1254 | 343. | 346. | 361. | 366. | 380. | 401. | |
| 1255 | 429. | 433. | 443. | 448. | 462. | 476. | |
| 1256 | | | | | | | |
| 1257 | 416. | 378. | 415. | 427. | 444. | 446. | |
| 1258 | | | | | | | |
| 1259 | 365. | 378. | 384. | 397. | 411. | 422. | |
| 1260 | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | |
| 1261 | 370. | 357. | 378. | 367. | 384. | 376. | |
| 1262 | | | | | | | |
| 1263 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | |
| 1264 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | |
| 1265 | | | | | | | |
| 1266 | 366. | 367. | 380. | 390. | 403. | 423. | |
| 1267 | | | | | | | |
| 1268 | | | | | | | |
| 1269 | 437. | 445. | 467. | 477. | 495. | 498. | |
| 1270 | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D15 (PAGE 20): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP V | | | | | | 30 MG/KG/DAY |
|---|---|---|---|---|---|---|---|
| DAY | 78 | 85 | 92 | 99a | 106 | 113 | 120 |
| 1271 | 452. | 457. | 465. | 465. | 478. | 491. | 510. |
| 1272 | | | | | | | |
| 1273 | 350. | 341. | 356. | 359. | 372. | 378. | 394. |
| 1274 | 450. | 448. | 469. | 475. | 486. | 490. | 507. |
| 1275 | MORIBUND SACRIFICED ON DAY 39 POSTWEANING | | | | | | |
| 1276 | | | | | | | |
| 1277 | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | |
| 1278 | 323. | 326. | 334. | 345. | 369. | 382. | |
| 1279 | | | | | | | |
| 1280 | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | |
| 1281 | 407. | 412. | 423. | 437. | 450. | 466. | |
| 1282 | 334. | 350. | 355. | 363. | 362. | 383. | |
| 1283 | | | | | | | |
| 1284 | 384. | 396. | 406. | 423. | 434. | 435. | |
| 1285 | | | | | | | |
| 1286 | | | | | | | |
| 1287 | 378. | 373. | 388. | 405. | 413. | 420. | |
| 1288 | 341. | 355. | 360. | 371. | 382. | 397. | |
| 1289 | 385. | 388. | 391. | 412. | 422. | 428. | |
| 1290 | 391. | 388. | 393. | 403. | 415. | 427. | |
| 1291 | 350. | 359. | 372. | 386. | 396. | 397. | |
| 1292 | | | | | | | |
| 1293 | | | | | | | |
| 1294 | 405. | 408. | 417. | 433. | 435. | 440. | |
| 1295 | | | | | | | |
| 1296 | 391. | 394. | 402. | 414. | 284. | FOUND DEAD ON DAY 107 POSTWEANING | |
| 1297 | | | | | | | |
| 1298 | 338. | 344. | 352. | 378. | 372. | 383. | |
| 1299 | | | | | | | |
| 1300 | 391. | 386. | 394. | 401. | 419. | 434. | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. First weekly value recorded after cohabitation.

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TABLE D16 (PAGE 1): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP I | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 MG/KG/DAY | | | | | | | | | | | |
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1001 | 60. | 116. | 163. | 188. | 199. | | | | | | | |
| 1002 | 72. | 124. | 165. | 202. | 195. | 197. | 183. | 194. | 194. | 159. | 159. | 178. |
| 1003 | 88. | 144. | 191. | 215. | 231. | 233. | 207. | 223. | 229. | 173. | 218. | 213. |
| 1004 | 76. | 135. | 164. | 181. | 200. | | | | | | | |
| 1005 | 81. | 140. | 178. | 205. | 212. | 222. | 204. | 210. | 203. | 175. | 206. | 191. |
| 1006 | 74. | 130. | 161. | 173. | 177. | | | | | | | |
| 1007 | 78. | 117. | 151. | 172. | 180. | 195. | 188. | 194. | 197. | 170. | 197. | 188. |
| 1008 | 87. | 130. | 165. | 183. | 193. | | | | | | | |
| 1009 | 82. | 143. | 191. | 197. | 219. | | | | | | | |
| 1010 | 69. | 114. | 145. | 165. | 178. | | | | | | | |
| 1011 | 78. | 129. | 156. | 172. | 189. | 203. | 208. | 209. | 211. | 192. | 206. | 219. |
| 1012 | 73. | 156. | 165. | 169. | 183. | 201. | 186. | 202. | 209. | 173. | 211. | c |
| 1013 | 68. | 137. | 150. | 171. | 203. | 206. | 218. | 223. | 225. | 191. | 218. | c |
| 1014 | 96. | 143. | 171. | 193. | 211. | 199. | 189. | 199. | 197. | 164. | 195. | 202. |
| 1015 | 97. | 169. | 194. | 209. | 234. | | | | | | | |
| 1016 | 86. | 147. | 158. | 176. | 195. | | | | | | | |
| 1017 | 70. | 142. | 162. | 181. | 192. | 182. | 186. | 193. | c | 167. | 186. | c |
| 6553 | 50. | 107. | 131. | 144. | | | | | | | | |
| 6554 | 85. | 143. | 155. | 260. | | | | | | | | |
| 6555 | 80. | 135. | 151. | 166. | | | | | | | | |
| 1021 | 76. | 132. | 149. | 169. | 178. | 193. | 204. | 224. | 225. | 186. | 223. | 220. |
| 1022 | 82. | 151. | 167. | 191. | 205. | | | | | | | |
| 1023 | 68. | 116. | 147. | 174. | 193. | 205. | 203. | 205. | 212. | 185. | 208. | c |
| 1024 | 76. | 129. | 149. | FOUND DEAD ON DAY 25 POSTWEANING | | | | | | | | |
| 1025 | 69. | 118. | 143. | 179. | 195. | | | | | | | |
| 1026 | 66. | 125. | 140. | 166. | 181. | 186. | 182. | 200. | 200. | 173. | 205. | 214. |
| 1027 | 78. | 111. | 123. | 137. | 156. | | | | | | | |
| 1028 | 66. | 108. | 139. | 158. | 176. | 177. | 168. | 173. | 165. | 143. | 173. | 147. |
| 1029 | MORIBUND SACRIFICED ON DAY 4 POSTWEANING | | | | | | | | | | | |
| 1030 | 71. | 134. | 168. | 196. | 205. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

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TABLE D16 (PAGE 2): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP I | | | | | 0 MG/KG/DAY | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1031 | 76. | 115. | 165. | 196. | 200. | 207. | 203. | 213. | c | 174. | 204. | 212. |
| 1032 | 62. | 109. | 158. | 191. | 199. | | | | | | | |
| 1033 | 62. | 106. | 147. | 180. | 189. | | | | | | | |
| 1034 | 53. | 110. | 142. | 174. | 187. | 194. | 185. | 194. | 188. | 156. | 193. | 200. |
| 1035 | 60. | d | 140. | 171. | 191. | 181. | 160. | 182. | 173. | 133. | 162. | 166. |
| 1036 | 76. | 122. | 163. | 190. | 188. | | | | | | | |
| 1037 | 55. | 100. | 136. | 155. | 162. | | | | | | | |
| 1038 | 80. | 112. | 154. | 180. | | | | | | | | |
| 1039 | 75. | 112. | 157. | 181. | 207. | FOUND DEAD ON DAY 42 POSTWEANING | | | | | | |
| 1040 | 75. | 121. | 147. | 165. | 188. | 183. | 192. | 177. | 179. | 144. | 187. | 180. |
| 1041 | 46. | 103. | 131. | 147. | 179. | 181. | 199. | 198. | 185. | 149. | 190. | 195. |
| 1042 | 78. | 118. | 136. | 157. | | | | | | | | |
| 1043 | 66. | 128. | 170. | 186. | 183. | 218. | 224. | 249. | 267. | 196. | 232. | 213. |
| 1044 | 87. | 143. | 162. | 173. | | | | | | | | |
| 1045 | 74. | 124. | 151. | 177. | 190. | 198. | 221. | 227. | 214. | 156. | 187. | 189. |
| 1046 | 82. | 136. | 158. | 175. | | | | | | | | |
| 1047 | 69. | 135. | 161. | 175. | 212. | 211. | 228. | 228. | 240. | 191. | 220. | 224. |
| 1048 | 74. | 124. | 159. | 182. | 212. | 221. | 244. | 243. | 246. | 185. | 216. | 212. |
| 1049 | 65. | 119. | 145. | 172. | | | | | | | | |
| 1050 | 70. | 117. | 138. | 174. | 199. | 206. | 263. | 240. | c | 163. | 198. | 194. |
| 1051 | 71. | 128. | 166. | 199. | 237. | 254. | c | c | c | 215. | 259. | 246. |
| 1052 | 70. | 143. | 177. | 189. | 210. | 210. | 232. | 242. | 264. | 185. | 218. | 217. |
| 1053 | 71. | 115. | 149. | 193. | | | | | | | | |
| 1054 | 81. | 129. | 153. | 206. | 215. | 200. | 196. | 204. | 190. | 176. | 188. | 192. |
| 1055 | 81. | 136. | 172. | 201. | 216. | 201. | 200. | 204. | 196. | 246. | 206. | 207. |
| 1056 | 87. | 141. | 170. | 191. | | | | | | | | |
| 1057 | 72. | 126. | 161. | 72. | | | | | | | | |
| 1058 | 77. | 133. | 168. | 192. | 214. | 209. | 209. | 201. | 219. | 181. | 207. | 213. |
| 1059 | 82. | 118. | 163. | 191. | 208. | 237. | 237. | c | 241. | 201. | 180. | |
| 1060 | 57. | 111. | 163. | 183. | 187. | 192. | 207. | 206. | 193. | 153. | 190. | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.
d. Soiled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D16 (PAGE 3): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP II | | | | | 1 MG/KG/DAY | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1061 | 67. | 120. | 159. | 168. | 178. | 175. | 170. | 180. | 169. | 140. | 165. | 168. |
| 1062 | 77. | 125. | 151. | 169. | 185. | | | | | | | |
| 1063 | 69. | 123. | 128. | 164. | 187. | 207. | 180. | 183. | 180. | 152. | 191. | 187. |
| 1064 | FOUND DEAD ON DAY 6 POSTWEANING | | | | | | | | | | | |
| 1065 | 66. | 106. | 134. | 160. | 180. | | | | | | | |
| 1066 | 64. | 106. | 139. | 155. | 169. | 171. | 168. | 182. | 167. | 142. | 176. | 182. |
| 1067 | 54. | 99. | 145. | 174. | 190. | 200. | 177. | 186. | 185. | 139. | 186. | 165. |
| 1068 | 69. | 119. | 155. | 176. | 196. | | | | | | | |
| 1069 | 62. | 108. | 138. | 162. | 192. | 200. | 209. | 204. | 204. | 158. | 195. | 189. |
| 1070 | 79. | 121. | 159. | 176. | 203. | | | | | | | |
| 1071 | 72. | 117. | 141. | 161. | 179. | 190. | 174. | 174. | 176. | c | 184. | 181. |
| 1072 | 65. | 130. | 159. | 181. | 201. | | | | | | | |
| 1073 | 86. | 146. | 177. | 189. | 201. | 199. | 181. | 188. | 189. | 162. | 177. | 171. |
| 1074 | 72. | 123. | 169. | 191. | 207. | | | | | | | |
| 1075 | 72. | 145. | 179. | 200. | 213. | | | | | | | |
| 1076 | 80. | 132. | 165. | 185. | 187. | | | | | | | |
| 1077 | 68. | 132. | 160. | 173. | 191. | 191. | 190. | 195. | 204. | 169. | 222. | 189. |
| 1078 | 84. | 151. | 182. | 192. | 208. | 231. | 208. | 243. | 239. | 207. | 241. | 240. |
| 1079 | 70. | 114. | 146. | 164. | 172. | | | | | | | |
| 1080 | 84. | 128. | 150. | 171. | 184. | | | | | | | |
| 1081 | 74. | 124. | 154. | 168. | 181. | 192. | 195. | 211. | 215. | 177. | 204. | 200. |
| 1082 | 74. | 135. | 144. | 167. | 177. | 193. | 180. | 184. | 183. | 159. | 193. | 182. |
| 1083 | 61. | 121. | 152. | 173. | 192. | 195. | 175. | 188. | 183. | 157. | 184. | 183. |
| 1084 | 72. | 119. | 140. | 158. | 176. | | | | | | | |
| 1085 | 69. | 110. | 140. | 156. | 178. | | | | | | | |
| 1086 | 72. | 117. | 135. | 147. | 158. | 211. | 161. | c | c | 130. | 131. | 171. |
| 1087 | 87. | 122. | 172. | 191. | 203. | 213. | FOUND DEAD ON DAY 45 POSTWEANING | | | | | |
| 1088 | 90. | 121. | 167. | 173. | 188. | 198. | 190. | c | c | 174. | 204. | 256. |
| 1089 | 92. | 136. | 158. | 175. | 191. | | | | | | | |
| 1090 | 78. | 124. | 136. | 154. | 159. | 191. | 179. | 191. | 179. | 145. | c | 174. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D16 (PAGE 4): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP II | | | | | | | | | | | 1 MG/KG/DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1091 | 70. | 115. | 145. | 171. | 189. | 195. | 198. | 200. | 195. | 159. | 185. | 194. |
| 1092 | 75. | 120. | 150. | 170. | 189. | | | | | | | |
| 1093 | 65. | 108. | 149. | 181. | 193. | | | | | | | |
| 1094 | 74. | 115. | 157. | 180. | 199. | 215. | 214. | 223. | 222. | 193. | 221. | c |
| 1095 | 80. | 125. | 167. | 203. | 228. | | | | | | | |
| 1096 | 66. | 118. | 147. | 167. | 184. | 199. | 222. | 238. | 236. | 207. | 218. | 238. |
| 1097 | 66. | 128. | 143. | 167. | 187. | | | | | | | |
| 1098 | 70. | 129. | 153. | 183. | 195. | 198. | 200. | 210. | 198. | 187. | 193. | 191. |
| 1099 | 84. | 151. | 170. | 218. | 175. | | | | | | | |
| 1100 | 96. | 134. | 160. | 180. | 203. | 202. | 184. | 197. | 200. | 156. | 181. | 187. |
| 1101 | 90. | 162. | 154. | 170. | 183. | | | | | | | |
| 1102 | 65. | 129. | 170. | 200. | 197. | | | | | | | |
| 1103 | 74. | 132. | 168. | 189. | 205. | 201. | 199. | 207. | 204. | 175. | 198. | 194. |
| 1104 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | | |
| 1105 | 65. | 115. | 141. | 174. | 188. | | | | | | | |
| 1106 | 59. | 100. | 120. | 137. | 151. | 162. | 172. | 186. | 188. | 165. | 194. | 190. |
| 1107 | 75. | 111. | 135. | 159. | 167. | 178. | 188. | 184. | 204. | 183. | 214. | 210. |
| 1108 | 75. | 115. | 149. | 172. | 197. | | | | | | | |
| 1109 | 67. | 118. | 139. | 168. | 176. | | | | | | | |
| 1110 | 72. | 109. | 124. | 164. | 173. | 182. | 180. | 192. | 179. | 147. | 165. | 167. |
| 1111 | 59. | 109. | 148. | 164. | 173. | | | | | | | |
| 1112 | 77. | 120. | 154. | 186. | 206. | c | 206. | 208. | 223. | 184. | 206. | 207. |
| 1113 | 82. | 120. | 165. | 196. | | | | | | | | |
| 1114 | 80. | 128. | 161. | 183. | 200. | 197. | 188. | 201. | 207. | 177. | 209. | 198. |
| 1115 | 62. | 108. | 136. | 162. | | | | | | | | |
| 1116 | 68. | 101. | 136. | 148. | 178. | 193. | 203. | 205. | 205. | 171. | 212. | 209. |
| 1117 | 72. | 112. | 137. | 146. | | | | | | | | |
| 1118 | 71. | 117. | 149. | 167. | 193. | 183. | 188. | 198. | 199. | 154. | 182. | 197. |
| 1119 | 60. | 112. | 157. | 175. | | | | | | | | |
| 1120 | 66. | 117. | 157. | 185. | 202. | 199. | 198. | c | 203. | 165. | 202. | 194. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D16 (PAGE 5): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP III | | | | | 3 MG/KG/DAY | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1121 | FOUND DEAD ON DAY 5 POSTWEANING | | | | | | | | | | | |
| 1122 | 89. | 131. | 169. | 61. | 198. | 200. | 192. | 189. | 181. | 157. | 176. | 183. |
| 1123 | 90. | 137. | 171. | 184. | 203. | 213. | 199. | 216. | 211. | 178. | 121. | 136. |
| 1124 | 68. | 114. | 153. | 175. | 189. | | | | | | | |
| 1125 | 58. | 114. | 146. | 173. | 181. | | | | | | | |
| 1126 | 68. | 104. | 137. | 166. | 175. | | | | | | | |
| 1127 | 56. | 101. | 131. | 154. | 175. | 195. | 188. | 192. | 190. | 160. | 193. | 184. |
| 1128 | 64. | 117. | 165. | 187. | c | | | | | | | |
| 1129 | 51. | 112. | 157. | 185. | 199. | 198. | 202. | 212. | 207. | 185. | 229. | 231. |
| 1130 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | | |
| 1131 | 59. | 122. | 145. | 170. | 178. | 211. | 219. | 233. | 226. | 183. | 215. | 229. |
| 1132 | 81. | 128. | 164. | 179. | 161. | 189. | 183. | 196. | 196. | 164. | 200. | 202. |
| 1133 | 86. | 138. | 154. | 167. | 178. | | | | | | | |
| 1134 | 83. | 149. | 176. | 198. | 210. | 222. | 213. | 218. | 212. | c | 199. | 197. |
| 1135 | 82. | 143. | 180. | 205. | 217. | 207. | 189. | 189. | 189. | 169. | 210. | 210. |
| 1136 | 42. | 99. | 153. | 165. | 179. | 190. | 190. | 203. | 201. | 164. | 192. | 113. |
| 1137 | 73. | 123. | 164. | 181. | 185. | | | | | | | |
| 1138 | 92. | 147. | 175. | 191. | 208. | | | | | | | |
| 1139 | 82. | 129. | 170. | 208. | 195. | 203. | 192. | 197. | 199. | 165. | c | 183. |
| 1140 | 63. | FOUND DEAD ON DAY 9 POSTWEANING | | | | | | | | | | |
| 1141 | 72. | 119. | 146. | 165. | 176. | 198. | 189. | 194. | 190. | 162. | 199. | 204. |
| 1142 | 50. | 102. | 131. | c | 170. | 181. | 178. | 176. | 177. | 156. | 182. | 191. |
| 1143 | 69. | 138. | 143. | 170. | 190. | | | | | | | |
| 1144 | 56. | 109. | 139. | 157. | 180. | | | | | | | |
| 1145 | 62. | 160. | 137. | 157. | 171. | 165. | 172. | 172. | 164. | 144. | 167. | 164. |
| 1146 | 68. | 177. | 147. | 175. | 194. | | | | | | | |
| 1147 | 89. | 159. | 180. | 173. | 195. | 214. | 212. | 211. | 209. | 185. | 203. | 162. |
| 1148 | 91. | 149. | 144. | 160. | 173. | | | | | | | |
| 1149 | 87. | 135. | 161. | 169. | 195. | 213. | c | 207. | 210. | 164. | 191. | 190. |
| 1150 | 81. | 126. | 155. | 182. | 198. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

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TABLE D16 (PAGE 6): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP III | | | | | 3 MG/KG/DAY | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1151 | 101. | 151. | 181. | 210. | 225. | 228. | 227. | 235. | 223. | 194. | 199. | 211. |
| 1152 | 82. | 162. | 176. | 197. | 213. | | | | | | | |
| 1153 | 88. | 149. | 176. | 185. | 202. | 217. | c | 236. | c | 193. | 205. | c |
| 1154 | 96. | 146. | 179. | 205. | 219. | 217. | 213. | 225. | 224. | 182. | 209. | 210. |
| 1155 | 98. | 147. | 181. | 203. | 224. | | | | | | | |
| 1156 | 74. | 124. | 162. | 195. | 218. | | | | | | | |
| 1157 | 75. | 119. | 150. | 178. | 195. | | | | | | | |
| 1158 | 79. | 123. | 160. | 182. | 204. | 212. | 202. | 256. | 254. | 198. | 207. | 228. |
| 1159 | 122. | 146. | 185. | 208. | 233. | 222. | 262. | 269. | 235. | 202. | 216. | 210. |
| 1160 | 98. | 142. | 176. | 193. | 220. | | | | | | | |
| 1161 | 92. | 129. | 164. | 188. | 199. | | | | | | | |
| 1162 | 66. | 111. | 129. | 170. | 190. | 179. | 183. | 186. | 180. | 151. | 190. | 200. |
| 1163 | 70. | 112. | 132. | 165. | 179. | | | | | | | |
| 1164 | 89. | 144. | 181. | 195. | 216. | 209. | 209. | 220. | 212. | 177. | 194. | 204. |
| 1165 | 83. | 138. | 177. | 214. | 230. | | | | | | | |
| 1166 | 33. | 69. | 101. | 128. | 149. | 173. | 186. | | | | | |
| 1167 | 42. | 90. | 121. | 148. | 167. | 185. | 218. | 217. | 225. | 176. | 224. | 220. |
| 1168 | 48. | 99. | 135. | 159. | 187. | 203. | 216. | 218. | 216. | 177. | 218. | 201. |
| 1169 | 56. | 99. | 125. | 142. | | | | | | | | |
| 1170 | 71. | 113. | 137. | 154. | | | | | | | | |
| 1171 | 68. | 105. | 129. | 147. | 166. | 164. | 167. | c | c | 139. | 168. | 168. |
| 1172 | 75. | 133. | 159. | 205. | | | | | | | | |
| 1173 | 85. | 133. | 152. | 180. | 195. | 189. | 200. | 209. | 211. | 167. | 193. | 186. |
| 1174 | 85. | 142. | 182. | 213. | | | | | | | | |
| 1175 | 90. | 136. | 175. | 206. | 230. | 227. | 228. | 176. | 123. | 151. | 199. | 155. |
| 1176 | 73. | 113. | 137. | 149. | 165. | 182. | 198. | 203. | 202. | 167. | 157. | 145. |
| 1177 | 81. | 139. | 166. | 181. | 204. | 206. | 206. | 208. | 203. | 180. | 186. | 213. |
| 1178 | 87. | 131. | 170. | 183. | | | | | | | | |
| 1179 | 78. | 122. | 168. | 190. | | | | | | | | |
| 1180 | 81. | 117. | 155. | 184. | 218. | 212. | 229. | 206. | 194. | 168. | 206. | 200. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

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TABLE D16 (PAGE 7): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP IV | | | | | 10 MG/KG/DAY | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1181 | 76. | 137. | 156. | 190. | 205. | | | | | | | |
| 1182 | 75. | 119. | 163. | 199. | 211. | 212. | 198. | 206. | 213. | 172. | 195. | 194. |
| 1183 | 58. | 101. | 134. | 159. | 176. | | | | | | | |
| 1184 | 63. | 103. | 147. | 174. | 189. | 195. | 169. | 181. | 176. | 159. | 196. | 204. |
| 1185 | 56. | 110. | 127. | 174. | 206. | | | | | | | |
| 1186 | 64. | 107. | 135. | 169. | 179. | 162. | 178. | 182. | 182. | 154. | 190. | 188. |
| 1187 | 78. | 136. | 160. | 178. | 197. | | | | | | | |
| 1188 | 84. | 134. | 174. | 184. | 200. | 201. | 187. | c | 199. | 155. | 208. | 207. |
| 1189 | 80. | 160. | 164. | 201. | 241. | 231. | 243. | 230. | 218. | 193. | 239. | 239. |
| 1190 | 88. | 194. | 180. | 238. | 265. | | | | | | | |
| 1191 | 84. | 138. | 157. | 176. | 189. | | | | | | | |
| 1192 | 87. | 135. | 155. | 173. | 203. | 199. | 195. | 200. | 193. | 167. | 198. | 191. |
| 1193 | 95. | 140. | 166. | 199. | 223. | | | | | | | |
| 1194 | 85. | 138. | 164. | 190. | 219. | 218. | 213. | 221. | 220. | 194. | 205. | 226. |
| 1195 | 85. | 143. | 155. | 195. | 218. | 213. | 196. | 206. | 192. | 163. | 199. | 200. |
| 1196 | 81. | 129. | 137. | 165. | 184. | | | | | | | |
| 1197 | 59. | 117. | 131. | 155. | 183. | | | | | | | |
| 1198 | 91. | 152. | 169. | 192. | 223. | 238. | 241. | 260. | 257. | 213. | 233. | 236. |
| 1199 | 72. | 142. | 142. | 177. | 198. | | | | | | | |
| 1200 | 75. | 143. | 170. | d | 181. | MORIBUND SACRIFICED ON DAY 40 POSTWEANING | | | | | | |
| 1201 | 86. | 140. | 162. | 178. | 208. | | | | | | | |
| 1202 | 83. | 126. | 148. | 174. | 199. | | | | | | | |
| 1203 | 75. | 155. | 168. | 205. | 216. | 197. | 179. | 190. | 178. | 141. | 183. | 187. |
| 1204 | 84. | 123. | 161. | 208. | 225. | 211. | 198. | 219. | 213. | 178. | 240. | 229. |
| 1205 | 80. | 127. | 157. | 203. | 239. | | | | | | | |
| 1206 | 79. | 123. | 146. | 168. | 194. | | | | | | | |
| 1207 | 73. | 112. | 132. | 161. | 179. | 189. | 187. | 189. | 182. | 157. | 185. | 180. |
| 1208 | 85. | 137. | 156. | 183. | 206. | | | | | | | |
| 1209 | 84. | 122. | 154. | 184. | 211. | 206. | 212. | 212. | 215. | 184. | 209. | 211. |
| 1210 | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.
d. Wet feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D16 (PAGE 8): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP IV | | | | | 10 MG/KG/DAY | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1211 | 64. | 106. | 130. | 154. | 167. | 174. | 183. | 189. | 183. | 159. | 197. | 200. |
| 1212 | 90. | 145. | 185. | 212. | 220. | 224. | 230. | 229. | 221. | 188. | 209. | 220. |
| 1213 | 86. | 132. | 165. | 198. | 99. | | | | | | | |
| 1214 | 79. | 125. | 161. | 193. | 201. | | | | | | | |
| 1215 | 76. | 121. | 188. | 204. | 211. | 206. | 200. | 203. | 190. | 164. | 178. | 181. |
| 1216 | 76. | 116. | 114. | 155. | 170. | 184. | 194. | 212. | 216. | 181. | 203. | c |
| 1217 | 86. | 125. | 165. | 181. | 194. | 197. | 217. | 232. | 226. | 191. | 203. | 193. |
| 1218 | 62. | 105. | 132. | 162. | 179. | | | | | | | |
| 1219 | 59. | 80. | 125. | 152. | 177. | 186. | 184. | 190. | 176. | 157. | 184. | 181. |
| 1220 | 75. | 121. | 145. | 165. | | | | | | | | |
| 1221 | 67. | 112. | 129. | 155. | 164. | 166. | 183. | 189. | 165. | 109. | 192. | 206. |
| 1222 | 77. | 123. | 149. | 183. | 193. | 191. | 186. | 188. | 185. | 141. | 188. | 199. |
| 1223 | 75. | 117. | 156. | 179. | | | | | | | | |
| 1224 | 39. | 76. | 112. | 150. | 169. | 174. | 178. | 177. | 183. | 149. | 187. | 177. |
| 1225 | 39. | 83. | 119. | 174. | 190. | 192. | 202. | 207. | 220. | 173. | 189. | 187. |
| 1226 | 80. | 122. | 159. | 176. | 197. | 209. | 212. | 212. | 210. | 180. | 206. | 199. |
| 1227 | 70. | 113. | 142. | 161. | | | | | | | | |
| 1228 | 71. | 110. | 136. | 161. | | | | | | | | |
| 1229 | 66. | 109. | 147. | 177. | 198. | c | 184. | 184. | 165. | 143. | 154. | 152. |
| 1230 | 64. | 112. | 145. | 171. | | | | | | | | |
| 1231 | 76. | 121. | 161. | 193. | | | | | | | | |
| 1232 | 76. | 114. | 135. | 161. | 166. | 161. | 153. | 146. | 145. | 124. | 151. | 145. |
| 1233 | 76. | 122. | 166. | 191. | 211. | 208. | 222. | 228. | 232. | 202. | 221. | 214. |
| 1234 | 83. | 130. | 166. | 193. | | | | | | | | |
| 1235 | 69. | 107. | 145. | 177. | | | | | | | | |
| 1236 | 69. | 107. | 148. | 165. | 178. | 183. | 199. | 197. | 204. | 168. | 186. | 191. |
| 1237 | 65. | 104. | 140. | 173. | 281. | 177. | 188. | 192. | 203. | 165. | 260. | c |
| 1238 | 72. | 120. | 169. | 202. | | | | | | | | |
| 1239 | 75. | 119. | 152. | 179. | | | | | | | | |
| 1240 | 74. | 118. | 151. | 194. | 217. | 204. | 227. | 228. | 226. | 158. | 193. | 190. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D16 (PAGE 9): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP V | | | | | | | | | | | 30 MG/KG/DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1241 | 52. | 99. | 137. | 166. | 185. | 210. | 193. | 188. | 210. | 165. | 178. | 142. |
| 1242 | 60. | 107. | 143. | 180. | 187. | | | | | | | |
| 1243 | 47. | 94. | 147. | 180. | 176. | | | | | | | |
| 1244 | 70. | 123. | 177. | 217. | 237. | 250. | 232. | c | 215. | 193. | c | 217. |
| 1245 | 75. | 127. | 168. | 211. | 248. | 259. | c | 246. | 239. | 179. | 230. | 236. |
| 1246 | 68. | 108. | 144. | 171. | 188. | | | | | | | |
| 1247 | 55. | 92. | 118. | 150. | 168. | 182. | 172. | 184. | 177. | 159. | 173. | 174. |
| 1248 | 74. | 92. | 117. | 142. | 168. | 174. | 159. | 169. | 158. | 135. | 156. | 164. |
| 1249 | 49. | 93. | 113. | 149. | 176. | 190. | 167. | 176. | 159. | 118. | 152. | 147. |
| 1250 | 61. | 100. | 136. | 152. | 158. | | | | | | | |
| 1251 | 81. | 132. | 143. | 167. | 184. | | | | | | | |
| 1252 | 73. | 129. | 147. | 161. | 188. | 196. | 185. | 200. | 189. | 168. | 203. | 185. |
| 1253 | 69. | 114. | 139. | 170. | 184. | | | | | | | |
| 1254 | 59. | 106. | 133. | 174. | 182. | 195. | 174. | 175. | 185. | 161. | 234. | 191. |
| 1255 | 83. | 126. | 148. | 174. | 194. | 197. | 199. | 196. | 187. | 159. | 181. | 199. |
| 1256 | 83. | 123. | 142. | 165. | 178. | | | | | | | |
| 1257 | 70. | 125. | 137. | 162. | 185. | 191. | 203. | 218. | 216. | 180. | 197. | 198. |
| 1258 | 58. | 120. | 128. | 140. | 148. | | | | | | | |
| 1259 | 50. | 88. | 118. | 151. | 167. | 178. | 176. | 170. | 166. | 140. | 171. | 176. |
| 1260 | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | | | |
| 1261 | 66. | 133. | 129. | 155. | 161. | 165. | 172. | 180. | 181. | 144. | 179. | 162. |
| 1262 | 74. | 146. | 134. | 169. | c | | | | | | | |
| 1263 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | | |
| 1264 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | | |
| 1265 | 69. | 126. | 139. | 171. | 188. | | | | | | | |
| 1266 | 75. | 123. | 135. | 157. | 176. | 180. | 170. | 170. | 167. | 144. | 190. | 192. |
| 1267 | 72. | 149. | 143. | 174. | 200. | | | | | | | |
| 1268 | 69. | 197. | 172. | 205. | 215. | | | | | | | |
| 1269 | 81. | 138. | 187. | 222. | 229. | 261. | 230. | 239. | 231. | 182. | 222. | 226. |
| 1270 | 91. | 135. | 242. | 172. | 194. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

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TABLE D16 (PAGE 10): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| RAT # | DOSAGE GROUP V | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30 MG/KG/DAY | | | | | | | | | | | |
| | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a | 99b-106 | 106 -113 |
| 1271 | 92. | 136. | 99. | 202. | 206. | 221. | 227. | 231. | 215. | 190. | 203. | 221. |
| 1272 | 63. | 95. | 128. | 157. | 163. | | | | | | | |
| 1273 | 67. | 101. | 128. | 165. | 186. | 179. | 166. | 168. | 167. | 142. | 169. | 162. |
| 1274 | 79. | 116. | 168. | 200. | 213. | 210. | 192. | 199. | 214. | 178. | 178. | 181. |
| 1275 | 70. | 113. | 164. | 235. | 173. | MORIBUND SACRIFICED ON DAY 39 POSTWEANING | | | | | | |
| 1276 | 49. | 107. | 146. | 145. | 169. | | | | | | | |
| 1277 | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | | | |
| 1278 | 29. | 68. | 105. | 128. | 134. | 141. | 157. | 161. | 165. | 142. | 180. | 177. |
| 1279 | 44. | 81. | 119. | 159. | 177. | | | | | | | |
| 1280 | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | | | |
| 1281 | 70. | 113. | 134. | 165. | 189. | 181. | 197. | 216. | 201. | 164. | 204. | 206. |
| 1282 | 67. | 110. | 136. | 163. | 173. | 183. | 182. | 171. | 174. | 149. | 163. | 183. |
| 1283 | 65. | 111. | 131. | 180. | 188. | | | | | | | |
| 1284 | 59. | 102. | 155. | 182. | 198. | 187. | 180. | 186. | 173. | 153. | 203. | 194. |
| 1285 | 59. | 111. | 159. | 205. | | | | | | | | |
| 1286 | 55. | 88. | 118. | 148. | | | | | | | | |
| 1287 | 56. | 82. | 121. | 161. | 185. | 184. | c | c | 226. | 228. | 218. | 216. |
| 1288 | 55. | 91. | 117. | 147. | 182. | 190. | 183. | 189. | 178. | 168. | 189. | 191. |
| 1289 | 68. | 112. | 146. | 187. | 203. | 205. | 204. | 216. | 215. | 172. | 212. | 196. |
| 1290 | 73. | 113. | 150. | 195. | 218. | 209. | 200. | 212. | 207. | 173. | 202. | 199. |
| 1291 | 60. | 117. | 144. | 167. | 169. | 166. | 211. | 168. | 173. | 125. | 167. | 160. |
| 1292 | 74. | 136. | 168. | 194. | | | | | | | | |
| 1293 | 70. | 107. | 128. | 177. | | | | | | | | |
| 1294 | 57. | 82. | 141. | 188. | 205. | 211. | 213. | 197. | 194. | 162. | 194. | 170. |
| 1295 | 67. | 119. | 154. | 185. | | | | | | | | |
| 1296 | 59. | 109. | 141. | 151. | 167. | 179. | 182. | 185. | 182. | 142. | 124. | d |
| 1297 | 55. | 108. | 134. | 157. | | | | | | | | |
| 1298 | 55. | 100. | 132. | 159. | 175. | 177. | 189. | 185. | 167. | 137. | 174. | e |
| 1299 | 63. | 109. | 144. | 171. | | | | | | | | |
| 1300 | 63. | 102. | 148. | 164. | 203. | 210. | 221. | 222. | 230. | 165. | 213. | 218. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.
d. Rat 1296 was found dead on day 107 postweaning.
e. Wet feed precluded the calculation of this value.

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TABLE D17 (PAGE 1): SEXUAL MATURATION - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP - MG/KG/DAY | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| I | | II | | III | | IV | | V | |
| 0 | | 1 | | 3 | | 10 | | 30 | |
| RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) |
| 1001 | 52 | 1061 | 46 | 1121 | a | 1181 | 47 | 1241 | 56 |
| 1002 | 49 | 1062 | 47 | 1122 | 51 | 1182 | 46 | 1242 | 57 |
| 1003 | 49 | 1063 | 51 | 1123 | 50 | 1183 | 52 | 1243 | 59 |
| 1004 | 49 | 1064 | a | 1124 | 52 | 1184 | 52 | 1244 | 52 |
| 1005 | 48 | 1065 | 51 | 1125 | 50 | 1185 | 58 | 1245 | 55 |
| 1006 | 49 | 1066 | 47 | 1126 | 52 | 1186 | 53 | 1246 | 56 |
| 1007 | 47 | 1067 | 48 | 1127 | 51 | 1187 | 48 | 1247 | 58 |
| 1008 | 47 | 1068 | 48 | 1128 | 45 | 1188 | 46 | 1248 | 53 |
| 1009 | 46 | 1069 | 51 | 1129 | 48 | 1189 | 50 | 1249 | 55 |
| 1010 | 47 | 1070 | 51 | 1130 | a | 1190 | 49 | 1250 | 50 |
| 1011 | 45 | 1071 | 55 | 1131 | 55 | 1191 | 48 | 1251 | 50 |
| 1012 | 51 | 1072 | 51 | 1132 | 53 | 1192 | 49 | 1252 | 53 |
| 1013 | 48 | 1073 | 49 | 1133 | 55 | 1193 | 49 | 1253 | 49 |
| 1014 | 46 | 1074 | 53 | 1134 | 47 | 1194 | 49 | 1254 | 53 |
| 1015 | 47 | 1075 | 51 | 1135 | 47 | 1195 | 49 | 1255 | 49 |
| 1016 | 49 | 1076 | 47 | 1136 | 45 | 1196 | 46 | 1256 | 54 |
| 1017 | 48 | 1077 | 49 | 1137 | 47 | 1197 | 49 | 1257 | 49 |
| 6553 | b | 1078 | 47 | 1138 | 48 | 1198 | 51 | 1258 | 54 |
| 6554 | 46 | 1079 | 50 | 1139 | 47 | 1199 | 52 | 1259 | 58 |
| 6555 | 52c | 1080 | 49 | 1140 | a | 1200 | d | 1260 | a |
| 1021 | 52 | 1081 | 47 | 1141 | 55 | 1201 | 50 | 1261 | 51 |
| 1022 | 49 | 1082 | 50 | 1142 | 52 | 1202 | 49 | 1262 | 49 |
| 1023 | 52 | 1083 | 52 | 1143 | 54 | 1203 | 48 | 1263 | a |
| 1024 | d | 1084 | 50 | 1144 | 58 | 1204 | 48 | 1264 | a |
| 1025 | 52 | 1085 | 55 | 1145 | 52 | 1205 | 56 | 1265 | 49 |
| 1026 | 53 | 1086 | 50 | 1146 | 46 | 1206 | 51 | 1266 | 49 |
| 1027 | 49 | 1087 | 47 | 1147 | 47 | 1207 | 50 | 1267 | 50 |
| 1028 | 48 | 1088 | 50 | 1148 | 46 | 1208 | 50 | 1268 | 49 |
| 1029 | a | 1089 | 50 | 1149 | 50 | 1209 | 48 | 1269 | 46 |
| 1030 | 50 | 1090 | 47 | 1150 | 46 | 1210 | a | 1270 | 54 |

DAY = DAY POSTPARTUM

a. Rat was found dead or moribund sacrificed before the start of sexual maturation evaluation.
b. Sexual maturation testing was discontinued before rat became sexually mature.
c. Rat did not have preputial separation recorded on one day and was separated the following day; value excluded from group averages and statistical analyses.
d. Rat was found dead or moribund sacrificed.

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TABLE D17 (PAGE 2): SEXUAL MATURATION - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP - MG/KG/DAY | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| I | | II | | III | | IV | | V | |
| 0 | | 1 | | 3 | | 10 | | 30 | |
| RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) | RAT # | PREPUTIAL SEPARATION (DAY) |
| 1031 | 48 | 1091 | 49 | 1151 | 44 | 1211 | 51 | 1271 | 49 |
| 1032 | 50 | 1092 | 52 | 1152 | 49 | 1212 | 48 | 1272 | 53 |
| 1033 | 48 | 1093 | 55 | 1153 | 49 | 1213 | 48 | 1273 | 54 |
| 1034 | 51 | 1094 | 52 | 1154 | 46 | 1214 | 48 | 1274 | 50 |
| 1035 | 48 | 1095 | 51 | 1155 | 49 | 1215 | 48 | 1275 | a |
| 1036 | 48 | 1096 | 48 | 1156 | 50 | 1216 | 49 | 1276 | 50 |
| 1037 | 51 | 1097 | 49 | 1157 | 46 | 1217 | 50 | 1277 | b |
| 1038 | 49 | 1098 | 46 | 1158 | 50 | 1218 | 53 | 1278 | 56 |
| 1039 | 49 | 1099 | 49 | 1159 | 44 | 1219 | 53 | 1279 | 54 |
| 1040 | c | 1100 | 45 | 1160 | 46 | 1220 | 47 | 1280 | b |
| 1041 | 49 | 1101 | 49 | 1161 | 46 | 1221 | 44 | 1281 | 54 |
| 1042 | 47 | 1102 | 50 | 1162 | 47 | 1222 | 54 | 1282 | 54 |
| 1043 | 44 | 1103 | 51 | 1163 | 51 | 1223 | 47 | 1283 | 48 |
| 1044 | 47 | 1104 | b | 1164 | 48 | 1224 | 58 | 1284 | 52 |
| 1045 | 50 | 1105 | 56 | 1165 | 46 | 1225 | 59 | 1285 | 52 |
| 1046 | 47 | 1106 | 53 | 1166 | 58 | 1226 | 48 | 1286 | 55 |
| 1047 | 49 | 1107 | 48 | 1167 | 53 | 1227 | 45 | 1287 | 58 |
| 1048 | 50 | 1108 | 45 | 1168 | 50 | 1228 | 50 | 1288 | 56 |
| 1049 | 50 | 1109 | 48 | 1169 | 52 | 1229 | 52 | 1289 | 53 |
| 1050 | 47 | 1110 | 48 | 1170 | 53 | 1230 | 52 | 1290 | 53 |
| 1051 | 47 | 1111 | 50 | 1171 | 52 | 1231 | 49 | 1291 | 49 |
| 1052 | c | 1112 | 48 | 1172 | 52 | 1232 | 49 | 1292 | 52 |
| 1053 | 49 | 1113 | 50 | 1173 | 52 | 1233 | 48 | 1293 | 49 |
| 1054 | 48 | 1114 | 47 | 1174 | 45 | 1234 | 49 | 1294 | 47 |
| 1055 | 48 | 1115 | 55 | 1175 | 45 | 1235 | 50 | 1295 | 52 |
| 1056 | 44 | 1116 | 52 | 1176 | 50 | 1236 | 45 | 1296 | 52 |
| 1057 | 48 | 1117 | 48 | 1177 | 46 | 1237 | 53 | 1297 | 52 |
| 1058 | 49 | 1118 | 47 | 1178 | 46 | 1238 | 50 | 1298 | 52 |
| 1059 | d | 1119 | 47 | 1179 | 49 | 1239 | 47 | 1299 | 49 |
| 1060 | d | 1120 | 44 | 1180 | 49 | 1240 | 47 | 1300 | 50 |

DAY = DAY POSTPARTUM
a. Rat was found dead or moribund sacrificed.
b. Rat was found dead or moribund sacrificed before the start of sexual maturation evaluation.
c. Sexual maturation testing was discontinued before rat became sexually mature.
d. Sexual maturation was not observed on rats 1059 and 1060.

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TABLE D18 (PAGE 1): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 1002 | 2 | M | C | P(1341) |
| 1003 | 4 | M | C | P(1302) |
| 1005 | 3 | M | C | P(1335) |
| 1007 | 2 | M | C | P(1318) |
| 1011 | 2 | M | C | P(1308) |
| 1012 | 14 | DID NOT MATE | - | -(1358) |
| 1013 | 2 | M | C | P(1334) |
| 1014 | 2 | M | C | P(1304) |
| 1017 | 1 | M | C | P(1346) |
| 1021 | 4 | M | C | P(1359) |
| 1023 | 2 | M | C | P(1350) |
| 1026 | 3 | M | C | P(1355) |
| 1028 | 3 | M | C | P(1336) |
| 1031 | 2 | M | C | P(1342) |
| 1034 | 4 | M | C | P(1328) |
| 1035 | 4 | M | C | P(1344) |
| 1040 | 1 | M | C | NP(1316) |
| 1041 | 3 | M | C | P(1330) |
| 1043 | 5 | M | C | P(1353) |
| 1045 | 1 | M | C | P(1348) |
| 1047 | 5 | M | C | P(1340) |
| 1048 | 2 | M | C | P(1338) |
| 1050 | 4 | M | C | P(1331) |
| 1051 | 2 | M | C | P(1345) |
| 1052 | 4 | M | C | P(1306) |
| 1054 | 2 | M | C | P(1313) |
| 1055 | 1 | M | C | P(1312) |
| 1058 | 3 | M | C | P(1321) |
| 1059 | 3 | M | C | P(1310) |
| 1060 | 1 | M | C | P(1325) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D18 (PAGE 2): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY | | |
|---|---|---|---|---|
| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
| 1061 | 1 | M | C | P(1415) |
| 1063 | 3 | M | C | P(1410) |
| 1066 | 3 | M | C | P(1364) |
| 1067 | 4 | M | C | P(1362) |
| 1069 | 3 | M | C | P(1387) |
| 1071 | 4 | M | C | P(1392) |
| 1073 | 3 | M | C | P(1363) |
| 1077 | 3 | M | C | NP(1378) |
| 1078 | 4 | M | C | P(1371) |
| 1081 | 3 | M | C | P(1368) |
| 1082 | 2 | M | C | P(1418) |
| 1083 | 4 | M | C | P(1367) |
| 1086 | 6 | M | C | P(1409) |
| 1088 | 2 | M | C | P(1389) |
| 1090 | 4 | M | C | P(1404) |
| 1091 | 4 | M | C | P(1413) |
| 1094 | 2 | M | C | P(1375) |
| 1096 | 2 | M | C | P(1397) |
| 1098 | 3 | M | C | P(1407) |
| 1100 | 4 | M | C | P(1376) |
| 1103 | 2 | M | C | P(1383) |
| 1106 | 3 | M | C | P(1399) |
| 1107 | 2 | M | C | P(1401) |
| 1110 | 3 | M | C | P(1382) |
| 1112 | 4 | M | C | P(1379) |
| 1114 | 2 | M | C | P(1384) |
| 1116 | 1 | M | C | P(1416) |
| 1118 | 2 | M | C | P(1393) |
| 1120 | 4 | M | C | P(1381) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED
P = PREGNANT NP = NOT PREGNANT

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TABLE D18 (PAGE 3): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY | | |
|---|---|---|---|---|
| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
| 1122 | 1 | M | C | P(1456) |
| 1123 | 2 | M | C | P(1443) |
| 1127 | 4 | M | C | P(1476) |
| 1129 | 3 | M | C | P(1461) |
| 1131 | 2 | M | C | P(1474) |
| 1132 | 4 | M | C | P(1472) |
| 1134 | 4 | M | C | P(1455) |
| 1135 | 2 | M | C | P(1448) |
| 1136 | 2 | M | C | P(1430) |
| 1139 | 2 | M | C | P(1424) |
| 1141 | 3 | M | C | P(1450) |
| 1142 | 4 | M | C | NP(1446) |
| 1145 | 1 | M | C | P(1480) |
| 1147 | 4 | M | C | P(1437) |
| 1149 | 1 | M | C | P(1426) |
| 1151 | 3 | M | C | P(1439) |
| 1153 | 1 | M | C | P(1431) |
| 1154 | 4 | M | C | P(1477) |
| 1158 | 1 | M | C | P(1469) |
| 1159 | 2 | M | C | P(1452) |
| 1162 | 4 | M | C | P(1436) |
| 1164 | 2 | M | C | P(1459) |
| 1167 | 1 | M | C | NP(1458) |
| 1168 | 3 | M | C | P(1428) |
| 1171 | 2 | M | C | P(1465) |
| 1173 | 3 | M | C | P(1433) |
| 1175 | 2 | M | C | P(1463) |
| 1176 | 4 | M | C | P(1468) |
| 1177 | 1 | M | C | P(1421) |
| 1180 | 1 | M | C | P(1442) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D18 (PAGE 4): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 1182 | 3 | M | C | P(1528) |
| 1184 | 4 | M | C | P(1523) |
| 1186 | 4 | M | C | P(1516) |
| 1188 | 2 | M | C | P(1513) |
| 1189 | 4 | M | C | P(1527) |
| 1192 | 7 | M | C | NP(1511) |
| 1194 | 1 | M | C | P(1519) |
| 1195 | 1 | M | C | P(1502) |
| 1198 | 2 | M | C | P(1496) |
| 1203 | 2 | M | C | P(1491) |
| 1204 | 3 | M | C | P(1533) |
| 1207 | 1 | M | C | NP(1483) |
| 1209 | 1 | M | C | P(1488) |
| 1211 | 3 | M | C | P(1500) |
| 1212 | 4 | M | C | P(1521) |
| 1215 | 4 | M | C | P(1531) |
| 1216 | 3 | M | C | P(1505) |
| 1217 | 4 | M | C | P(1508) |
| 1219 | 4 | M | C | P(1497) |
| 1221 | 4 | M | C | P(1494) |
| 1222 | 1 | M | C | P(1486) |
| 1224 | 5 | M | C | P(1539) |
| 1225 | 1 | M | C | P(1534) |
| 1226 | 1 | M | C | P(1517) |
| 1229 | 1 | M | C | P(1524) |
| 1232 | 2 | M | C | P(1514) |
| 1233 | 1 | M | C | P(1482) |
| 1236 | 3 | M | C | P(1537) |
| 1237 | 4 | M | C | P(1507) |
| 1240 | 1 | M | C | P(1490) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D18 (PAGE 5): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT # | DAYS IN COHABITATION | MATING STATUS | MATING DATE | FEMALE PREGNANCY STATUS |
|---|---|---|---|---|
| 1241 | 3 | M | C | P(1588) |
| 1244 | 2 | M | C | P(1565) |
| 1245 | 2 | M | C | P(1557) |
| 1247 | 1 | M | C | P(1560) |
| 1248 | 4 | M | C | P(1566) |
| 1249 | 4 | M | C | P(1555) |
| 1252 | 4 | M | C | P(1546) |
| 1254 | 3 | M | C | P(1548) |
| 1255 | 2 | M | C | P(1573) |
| 1257 | 4 | M | C | P(1586) |
| 1259 | 2 | M | C | P(1541) |
| 1261 | 4 | M | C | P(1598) |
| 1266 | 3 | M | C | P(1568) |
| 1269 | 1 | M | C | P(1558) |
| 1271 | 4 | M | C | P(1600) |
| 1273 | 3 | M | C | P(1589) |
| 1274 | 3 | M | C | P(1571) |
| 1278 | 3 | M | C | NP(1578) |
| 1281 | 3 | M | C | P(1545) |
| 1282 | 3 | M | C | P(1552) |
| 1284 | 2 | M | C | P(1591) |
| 1287 | 5 | M | C | P(1544) |
| 1288 | 1 | M | C | P(1584) |
| 1289 | 1 | M | C | P(1583) |
| 1290 | 1 | M | C | P(1593) |
| 1291 | 1 | M | C | P(1550) |
| 1294 | 1 | M | C | P(1576) |
| 1296 | 2 | M | C | P(1579) |
| 1298 | 1 | M | C | P(1587) |
| 1300 | 3 | M | C | P(1564) |

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| I<br>0 | 1001 | DP 39 | 38 | ALL TISSUES APPEARED NORMAL. |
| | 1002 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1003 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1004 | DP 39 | 38 | ALL TISSUES APPEARED NORMAL. |
| | 1005 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1006 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1007 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1008 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1009 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1010 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1011 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1012 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1013 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1014 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1015 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1016 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1017 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 6553 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 6554 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 6555 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1021 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1022 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1023 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1024 | DP 25 | 25 | FOUND DEAD ON DAY 25 POSTWEANING (DEATH OCCURRED 56 MINUTES AFTER DOSAGE ADMINISTRATION).<br>LUNGS: ALL LOBES, MOTTLED, DARK RED.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1025 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1026 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT<br>NUMBER | DAY OF<br>NECROPSY | DOSAGES<br>ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| I<br>0<br>CONT. | 1027 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1028 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1029 | DP 4 | 4 | MORIBUND SACRIFICED ON DAY 4 POSTWEANING.<br>ALL TISSUES APPEARED NORMAL. |
| | 1030 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1031 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1032 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1033 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1034 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1035 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1036 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1037 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1038 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1039 | DP 42 | 42 | FOUND DEAD ON DAY 42 POSTWEANING (DEATH OCCURRED 33 MINUTES AFTER DOSAGE ADMINISTRATION).<br>ALL TISSUES APPEARED NORMAL. |
| | 1040 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1041 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1042 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1043 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1044 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1045 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1046 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1047 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1048 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1049 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1050 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1051 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| I | | | | |
| 0 | 1052 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1053 | DP 34 | 33 | ALL TISSUES APPEARED NORMAL. |
| | 1054 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1055 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1056 | DP 34 | 33 | ALL TISSUES APPEARED NORMAL. |
| | 1057 | DP 31 | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1058 | DP 115 | 114 | ALL TISSUES APPEARED NORMAL. |
| | 1059 | DP 109 | 108 | ALL TISSUES APPEARED NORMAL. |
| | 1060 | DP 109 | 108 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| II<br>1 | 1061 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1062 | DP 39 | 38 | ALL TISSUES APPEARED NORMAL. |
| | 1063 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1064 | DP 6 | 5 | FOUND DEAD ON DAY 6 POSTWEANING (DEATH OCCURRED OVERNIGHT).<br>ALL TISSUES APPEARED NORMAL. |
| | 1065 | DP 39 | 38 | ALL TISSUES APPEARED NORMAL. |
| | 1066 | DP 119 | 118 | PROSTATE: SMALL (0.2716 G).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1067 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1068 | DP 39 | 38 | ALL TISSUES APPEARED NORMAL. |
| | 1069 | DP 119 | 118 | b |
| | 1070 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1071 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1072 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1073 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1074 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1075 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1076 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1077 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1078 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1079 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1080 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1081 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1082 | DP 119 | 118 | TESTES: LEFT, FLACCID, SMALL (1.0590 G).<br>EPIDIDYMIDES: LEFT, SMALL (0.3393 G).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1083 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1084 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1085 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1086 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

b. Necropsy observations were not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| II 1 CONT. | 1087 | DP 45 | 44 | FOUND DEAD ON DAY 45 POSTWEANING (DEATH OCCURRED PRIOR TO DOSAGE ADMINISTRATION). ALL TISSUES APPEARED NORMAL. |
| | 1088 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1089 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1090 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1091 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1092 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1093 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1094 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1095 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1096 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1097 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1098 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1099 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1100 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1101 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1102 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1103 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1104 | DP 2 | 1 | FOUND DEAD ON DAY 2 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1105 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1106 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1107 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1108 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1109 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1110 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| II | | | | |
| 1 | 1111 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1112 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1113 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1114 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1115 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1116 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1117 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1118 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1119 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1120 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING
a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

TABLE D19 (PAGE 7): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| III | | | | |
| 3 | 1121 | DP 5 | 4 | FOUND DEAD ON DAY 5 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1122 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1123 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1124 | DP 38 | 37 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.3 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1125 | DP 38 | 37 | LIVER: LEFT LATERAL LOBE, FOUR TAN AREAS (PINPOINT TO 0.1 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1126 | DP 38 | 37 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.2 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1127 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1128 | DP 38 | 37 | LIVER: LEFT LATERAL LOBE, TAN AREA (0.4 CM X 0.2 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1129 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1130 | DP 2 | 1 | FOUND DEAD ON DAY 2 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1131 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1132 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1133 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1134 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1135 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1136 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1137 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1138 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1139 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 8): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| III<br>3<br>CONT. | 1140 | DP 9 | 8 | FOUND DEAD ON DAY 9 POSTWEANING (DEATH OCCURRED OVERNIGHT).<br>ALL TISSUES APPEARED NORMAL. |
| | 1141 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1142 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1143 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1144 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1145 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1146 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1147 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1148 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1149 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1150 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1151 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1152 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1153 | DP 120 | 119 | TESTES: LEFT, LARGE (3.0171 G).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1154 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1155 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1156 | DP 36 | 35 | LIVER: LEFT LATERAL LOBE, SIX TAN AREAS (PINPOINT TO 0.3 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1157 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1158 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1159 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1160 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1161 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1162 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1163 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1164 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 9): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| III 3 CONT. | 1165 | DP 36 | 35 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.2 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1166 | DP 56 | 55 | ALL TISSUES APPEARED NORMAL. |
| | 1167 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1168 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1169 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1170 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1171 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1172 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1173 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1174 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1175 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1176 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1177 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1178 | DP 34 | 33 | ALL TISSUES APPEARED NORMAL. |
| | 1179 | DP 31 | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1180 | DP 115 | 114 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 10): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| IV | | | | |
| 10 | 1181 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1182 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1183 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1184 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1185 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1186 | DP 118 | 117 | KIDNEYS: RIGHT, PELVIS, MODERATE DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1187 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1188 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1189 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1190 | DP 37 | 36 | LIVER: LEFT LATERAL AND MEDIAN LOBES, NUMEROUS TAN AREAS, (PINPOINT TO 0.2 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1191 | DP 37 | 36 | LIVER: LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.1 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1192 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1193 | DP 37 | 36 | LIVER: LEFT LATERAL LOBE, FOUR TAN AREAS (PINPOINT TO 0.2 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1194 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1195 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1196 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1197 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1198 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1199 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 11): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| IV 10 CONT. | 1200 | DP 40 | 39 | MORIBUND SACRIFICED ON DAY 40 POSTWEANING.<br>INTESTINES: DISTENDED WITH GAS.<br>THYMUS: SMALL, (0.02 G).<br>STOMACH: TWO REGIONS OF THE CARDIAC REGION, FIRST REGION, NUMEROUS ULCERATIONS, (PINPOINT TO 0.1 CM IN DIAMETER), SECOND REGION, FIVE ULCERATIONS (PINPOINT).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1201 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1202 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1203 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1204 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1205 | DP 36 | 35 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.5 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1206 | DP 36 | 35 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.5 CM X 0.1 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1207 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1208 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1209 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1210 | DP 4 | 3 | FOUND DEAD ON DAY 4 POSTWEANING (DEATH OCCURRED OVERNIGHT).<br>ALL TISSUES APPEARED NORMAL. |
| | 1211 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1212 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1213 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1214 | DP 36 | 35 | ALL TISSUES APPEARED NORMAL. |
| | 1215 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1216 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1217 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 12): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| IV 10 CONT. | 1218 | DP 36 | 35 | LIVER: LEFT LATERAL LOBE, TAN AND BLACK AREA (0.2 CM X 0.2 CM); CAUDATE LOBE, TAN AREA (0.4 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1219 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1220 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1221 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1222 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1223 | DP 35 | 34 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.2 CM IN DIAMETER). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1224 | DP 118 | 117 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL. |
| | 1225 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1226 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1227 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1228 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1229 | DP 119 | 118 | SPLEEN: TAN AREA EXTENDED INTO THE PARENCHYMA (2.0 CM X 1.5 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1230 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1231 | DP 35 | 34 | LIVER: LEFT LATERAL LOBE, FIVE TAN AREAS (PINPOINT TO 0.5 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1232 | DP 119 | 118 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL. |
| | 1233 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 13): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| IV 10 CONT. | 1234 | DP 35 | 34 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.7 CM); MEDIAN LOBE, ONE TAN AREA (0.2 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1235 | DP 35 | 34 | LIVER: LEFT LATERAL LOBE, 4 TO 5 TAN AREAS, (PINPOINT TO 0.1 CM); MEDIAN LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.3 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1236 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1237 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1238 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1239 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1240 | DP 119 | 118 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 14): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| V | | | | |
| 30 | 1241 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1242 | DP 39 | 38 | ALL TISSUES APPEARED NORMAL. |
| | 1243 | DP 39 | 38 | ALL TISSUES APPEARED NORMAL. |
| | 1244 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1245 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1246 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1247 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1248 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1249 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1250 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1251 | DP 38 | 37 | LIVER: LEFT LATERAL AND MEDIAN LOBES, NUMEROUS TAN AREAS, (PINPOINT TO 0.3 CM IN DIAMETER). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1252 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1253 | DP 38 | 37 | ALL TISSUES APPEARED NORMAL. |
| | 1254 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1255 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1256 | DP 37 | 36 | LIVER: LEFT LATERAL LOBE, TAN AREA (0.8 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1257 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1258 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1259 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1260 | DP 4 | 3 | FOUND DEAD ON DAY 4 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1261 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 15): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| V<br>30<br>CONT. | 1262 | DP 37 | 36 | LIVER: LEFT LATERAL LOBE, SIX TAN AREAS (PINPOINT TO 1.0 CM); MEDIAN LOBE, FIVE TAN AREAS (PINPOINT TO 0.3 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1263 | DP 2 | 1 | FOUND DEAD ON DAY 2 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1264 | DP 2 | 1 | FOUND DEAD ON DAY 2 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1265 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1266 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1267 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1268 | DP 37 | 36 | LIVER: MEDIAN LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.4 CM X 0.2 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1269 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1270 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1271 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1272 | DP 37 | 36 | ALL TISSUES APPEARED NORMAL. |
| | 1273 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1274 | DP 120 | 119 | ALL TISSUES APPEARED NORMAL. |
| | 1275 | DP 39 | 38 | MORIBUND SACRIFICED ON DAY 39 POSTWEANING. LIVER: MEDIAN LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.1 CM). SPLEEN: SMALL (0.04 G). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1276 | DP 37 | 36 | LIVER: LARGE (26.64 G). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1277 | DP 4 | 3 | FOUND DEAD ON DAY 4 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1278 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 16): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| V<br>30<br>CONT. | 1279 | DP 36 | 35 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.3 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1280 | DP 3 | 2 | FOUND DEAD ON DAY 3 POSTWEANING (DEATH OCCURRED OVERNIGHT).<br>ALL TISSUES APPEARED NORMAL. |
| | 1281 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1282 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1283 | DP 36 | 35 | LIVER: LEFT LATERAL AND MEDIAN LOBES, NUMEROUS TAN AREAS, (PINPOINT TO 0.3 CM X 0.1 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1284 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1285 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1286 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1287 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1288 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1289 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1290 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1291 | DP 119 | 118 | ALL TISSUES APPEARED NORMAL. |
| | 1292 | DP 35 | 34 | ALL TISSUES APPEARED NORMAL. |
| | 1293 | DP 35 | 34 | LIVER: LEFT LATERAL LOBE, NUMEROUS TAN AREAS, (PINPOINT TO 0.5 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1294 | DP 119 | 118 | KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1295 | DP 35 | 34 | LIVER: LEFT LATERAL LOBE, FOUR TAN AND WHITE AREAS (PINPOINT TO 0.3 CM).<br>ALL OTHER TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D19 (PAGE 17): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|
| V | | | | |
| 30 | 1296 | DP 107 | 106 | FOUND DEAD ON DAY 107 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1297 | DP 34 | 33 | ALL TISSUES APPEARED NORMAL. |
| | 1298 | DP 118 | 117 | ALL TISSUES APPEARED NORMAL. |
| | 1299 | DP 33 | 32 | ALL TISSUES APPEARED NORMAL. |
| | 1300 | DP 117 | 116 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D14) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1002 | 567. | 0.7752 | 0.14 | 0.3991 | 0.07 | 1.9221 | 0.34 | 1.7786 | 0.31 | 1.6467 | 0.29 | 0.8308 | 0.15 |
| 1003 | 602. | 0.7726 | 0.13 | 0.3611 | 0.06 | 1.8125 | 0.30 | 1.6880 | 0.28 | 2.1281 | 0.35 | 1.0361 | 0.17 |
| 1005 | 572. | 0.6687 | 0.12 | 0.3080 | 0.05 | 1.6994 | 0.30 | 1.5948 | 0.28 | 1.7303 | 0.30 | 0.8830 | 0.15 |
| 1007 | 546. | 0.6686 | 0.12 | 0.3350 | 0.06 | 1.5619 | 0.29 | 1.4691 | 0.27 | 1.8008 | 0.33 | 0.9282 | 0.17 |
| 1011 | 580. | 0.6963 | 0.12 | 0.3387 | 0.06 | 1.5902 | 0.27 | 1.4829 | 0.26 | 1.7689 | 0.30 | 0.9602 | 0.16 |
| 1012 | 633. | 0.7115 | 0.11 | 0.3373 | 0.05 | 1.7682 | 0.28 | 1.6627 | 0.26 | 2.1506 | 0.34 | 1.0488 | 0.16 |
| 1013 | 607. | 0.6641 | 0.11 | 0.3204 | 0.05 | 1.6088 | 0.26 | 1.5081 | 0.25 | 2.2159 | 0.36 | 1.2484 | 0.20 |
| 1014 | 557. | 0.7869 | 0.14 | 0.3583 | 0.06 | 1.8831 | 0.34 | 1.7555 | 0.32 | 2.5406 | 0.46 | 1.3229 | 0.24 |
| 1017 | 528. | 0.6555 | 0.12 | 0.2932 | 0.06 | 1.7762 | 0.34 | 1.6737 | 0.32 | 1.6431 | 0.31 | 0.9578 | 0.18 |
| 1021 | 623. | 0.6987 | 0.11 | 0.3482 | 0.06 | 1.8218 | 0.29 | 1.6868 | 0.27 | 1.8339 | 0.29 | 1.0077 | 0.16 |
| 1023 | 604. | 0.6580 | 0.11 | 0.3339 | 0.06 | 1.7024 | 0.28 | 1.5794 | 0.26 | 1.6675 | 0.28 | 0.7430 | 0.12 |
| 1026 | 581. | 0.7822 | 0.13 | 0.4020 | 0.07 | 1.9518 | 0.34 | 1.8349 | 0.32 | 2.2373 | 0.38 | 1.0835 | 0.19 |
| 1028 | 464. | 0.6933 | 0.15 | 0.3383 | 0.07 | 1.7226 | 0.37 | 1.6188 | 0.35 | 1.5930 | 0.34 | 0.9180 | 0.20 |
| 1031 | 585. | 0.6753 | 0.12 | 0.3248 | 0.06 | 1.7995 | 0.31 | 1.6663 | 0.28 | 2.2558 | 0.38 | 1.1674 | 0.20 |
| 1034 | 465. | 0.6971 | 0.15 | 0.3283 | 0.07 | 1.5867 | 0.34 | 1.4943 | 0.32 | 2.0640 | 0.44 | 0.8644 | 0.18 |
| 1035 | 461. | 0.5600 | 0.12 | 0.2757 | 0.06 | 1.4438 | 0.31 | 1.2926 | 0.28 | 1.6995 | 0.37 | 0.9306 | 0.20 |
| 1040 | 537. | 0.6153 | 0.11 | 0.2846 | 0.05 | 1.5830 | 0.29 | 1.5238 | 0.28 | 2.0948 | 0.39 | 0.9268 | 0.17 |
| 1041 | 496. | 0.5846 | 0.12 | 0.2599 | 0.05 | 1.6181 | 0.33 | 1.4797 | 0.30 | 1.7416 | 0.35 | 1.0356 | 0.21 |
| 1043 | 537. | 0.6476 | 0.12 | 0.3170 | 0.06 | 1.8685 | 0.35 | 1.6406 | 0.30 | 1.4429 | 0.27 | 0.8137 | 0.15 |
| 1045 | 509. | 0.6937 | 0.14 | 0.3335 | 0.06 | 2.0197 | 0.40 | 1.8917 | 0.37 | 2.1573 | 0.42 | 1.1610 | 0.23 |
| 1047 | 700. | 0.7059 | 0.10 | 0.3676 | 0.05 | 1.7596 | 0.25 | 1.6111 | 0.23 | 1.3668 | 0.20 | 0.7839 | 0.11 |
| 1048 | 642. | 0.6579 | 0.10 | 0.3233 | 0.05 | 1.5749 | 0.24 | 1.4321 | 0.22 | 2.0222 | 0.31 | 0.9460 | 0.15 |
| 1050 | 503. | 0.6975 | 0.14 | 0.3498 | 0.07 | 1.6161 | 0.32 | 1.4572 | 0.29 | 1.7612 | 0.35 | 0.7748 | 0.15 |
| 1051 | 645. | 0.7675 | 0.12 | 0.3806 | 0.06 | 2.0003 | 0.31 | 1.8134 | 0.28 | 2.3132 | 0.36 | 1.1160 | 0.17 |
| 1052 | 580. | 0.7354 | 0.13 | 0.3854 | 0.07 | 1.9346 | 0.33 | 1.7771 | 0.31 | 2.0816 | 0.36 | 1.1932 | 0.20 |
| 1054 | 568. | 0.7518 | 0.13 | 0.3819 | 0.07 | 1.9560 | 0.34 | 1.8014 | 0.32 | 2.5943 | 0.46 | 1.4246 | 0.25 |
| 1055 | 574. | 0.6775 | 0.12 | 0.3243 | 0.06 | 1.7734 | 0.31 | 1.6231 | 0.28 | 2.0127 | 0.35 | 1.1275 | 0.20 |
| 1058 | 565. | 0.5881 | 0.10 | 0.2814 | 0.05 | 1.6935 | 0.30 | 1.5125 | 0.27 | 1.8827 | 0.33 | 0.9591 | 0.17 |
| 1059 | 468. | 0.6360 | 0.14 | 0.2937 | 0.06 | 1.7162 | 0.37 | 1.6036 | 0.34 | 1.1345 | 0.24 | 0.7241 | 0.15 |
| 1060 | 498. | 0.6379 | 0.13 | 0.3128 | 0.06 | 1.6027 | 0.32 | 1.4347 | 0.29 | 1.3529 | 0.27 | 0.7172 | 0.14 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I — 0 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT | | TESTIS RIGHT | | PROSTATE | | PITUITARY | | BRAIN | | LIVER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1002 | 567. | 0.7585 | 0.13 | 1.8845 | 0.33 | 0.4671 | 0.08 | 0.015 | 2.64 | 2.27 | 0.40 | 21.20 | 3.74 |
| 1003 | 602. | 0.7227 | 0.12 | 1.7920 | 0.30 | 0.6059 | 0.10 | 0.014 | 2.32 | 2.40 | 0.40 | 25.00 | 4.15 |
| 1005 | 572. | 0.6810 | 0.12 | 1.6608 | 0.29 | 0.5167 | 0.09 | 0.011 | 1.92 | 2.36 | 0.41 | 19.70 | 3.44 |
| 1007 | 546. | 0.6742 | 0.12 | 1.5845 | 0.29 | 0.5157 | 0.09 | 0.014 | 2.56 | 2.23 | 0.41 | 21.20 | 3.88 |
| 1011 | 580. | 0.6834 | 0.12 | 1.5867 | 0.27 | 0.7725 | 0.13 | 0.011 | 1.90 | 2.22 | 0.38 | 24.75 | 4.27 |
| 1012 | 633. | 0.6799 | 0.11 | 1.7336 | 0.27 | 1.3440 | 0.21 | 0.014 | 2.21 | 2.32 | 0.37 | 24.99 | 3.95 |
| 1013 | 607. | 0.6817 | 0.11 | 1.6417 | 0.27 | 1.0484 | 0.17 | 0.014 | 2.31 | 2.29 | 0.38 | 21.79 | 3.59 |
| 1014 | 557. | 0.8172 | 0.15 | 1.7921 | 0.32 | 1.0938 | 0.20 | 0.012 | 2.15 | 2.51 | 0.45 | 22.01 | 3.95 |
| 1017 | 528. | 0.6814 | 0.13 | 1.7002 | 0.32 | 1.3176 | 0.25 | 0.013 | 2.46 | 2.30 | 0.44 | 17.05 | 3.23 |
| 1021 | 623. | 0.7343 | 0.12 | 1.8175 | 0.29 | 0.9022 | 0.14 | 0.013 | 2.09 | 2.27 | 0.36 | 25.08 | 4.02 |
| 1023 | 604. | 0.6593 | 0.11 | 1.6437 | 0.27 | 1.2225 | 0.20 | 0.015 | 2.48 | 2.25 | 0.37 | 23.69 | 3.92 |
| 1026 | 581. | 0.7373 | 0.13 | 1.8810 | 0.32 | 1.6240 | 0.28 | 0.015 | 2.58 | 2.52 | 0.43 | 22.31 | 3.84 |
| 1028 | 464. | 0.6915 | 0.15 | 1.6696 | 0.36 | 1.2618 | 0.27 | 0.015 | 3.23 | 2.17 | 0.47 | 18.86 | 4.06 |
| 1031 | 585. | 0.6714 | 0.11 | 1.6776 | 0.29 | 1.2276 | 0.21 | 0.016 | 2.74 | 2.45 | 0.42 | 21.65 | 3.70 |
| 1034 | 465. | 0.6982 | 0.15 | 1.5835 | 0.34 | 1.2740 | 0.27 | 0.013 | 2.80 | 2.25 | 0.48 | 17.02 | 3.66 |
| 1035 | 461. | 0.5628 | 0.12 | 1.5086 | 0.33 | 0.8117 | 0.18 | 0.009 | 1.95 | 2.25 | 0.49 | 16.86 | 3.66 |
| 1040 | 537. | 0.6359 | 0.12 | 1.6333 | 0.30 | 1.1217 | 0.21 | 0.011 | 2.05 | 2.39 | 0.44 | 20.38 | 3.80 |
| 1041 | 496. | 0.6364 | 0.13 | 1.5862 | 0.32 | 1.1027 | 0.22 | 0.011 | 2.22 | 2.25 | 0.45 | 23.82 | 4.80 |
| 1043 | 537. | 0.6825 | 0.13 | 1.8901 | 0.35 | 0.8592 | 0.16 | 0.019 | 3.54 | 2.40 | 0.45 | 21.30 | 3.97 |
| 1045 | 509. | 0.7169 | 0.14 | 1.9229 | 0.38 | 1.0457 | 0.20 | 0.015 | 2.95 | 2.28 | 0.45 | 18.32 | 3.60 |
| 1047 | 700. | 0.7403 | 0.10 | 1.7809 | 0.25 | 1.4155 | 0.20 | 0.014 | 2.00 | 2.42 | 0.34 | 29.20 | 4.17 |
| 1048 | 642. | 0.6381 | 0.10 | 1.4826 | 0.23 | 1.0329 | 0.16 | 0.023 | 3.58 | 2.40 | 0.37 | 27.26 | 4.25 |
| 1050 | 503. | 0.7014 | 0.14 | 1.5870 | 0.32 | 1.0311 | 0.20 | 0.010 | 1.99 | 2.20 | 0.44 | 21.29 | 4.23 |
| 1051 | 645. | 0.8552 | 0.13 | 1.9756 | 0.31 | 1.3585 | 0.21 | 0.020 | 3.10 | 2.62 | 0.41 | 25.09 | 3.89 |
| 1052 | 580. | 0.8026 | 0.14 | 1.9853 | 0.34 | 1.1700 | 0.20 | 0.013 | 2.24 | 2.47 | 0.42 | 24.34 | 4.20 |
| 1054 | 568. | 0.7438 | 0.13 | 1.9381 | 0.34 | 1.1579 | 0.20 | 0.020 | 3.52 | 2.46 | 0.43 | 20.05 | 3.53 |
| 1055 | 574. | 0.7348 | 0.13 | 1.8211 | 0.32 | 1.1323 | 0.20 | 0.021 | 3.66 | 2.43 | 0.42 | 21.35 | 3.72 |
| 1058 | 565. | 0.6267 | 0.11 | 1.6947 | 0.30 | 1.1133 | 0.20 | 0.018 | 3.18 | 1.94 | 0.34 | 20.17 | 3.57 |
| 1059 | 468. | 0.6254 | 0.13 | 1.7833 | 0.38 | 0.7495 | 0.16 | 0.018 | 3.85 | 2.44 | 0.52 | 16.10 | 3.44 |
| 1060 | 498. | 0.6724 | 0.14 | 1.7323 | 0.35 | 0.8267 | 0.17 | 0.012 | 2.41 | 2.40 | 0.48 | 17.81 | 3.58 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | | SPLEEN | | THYMUS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1002 | 567. | 2.17 | 0.38 | 2.28 | 0.40 | 0.031 | 5.47 | 0.028 | 4.94 | 0.96 | 0.17 | 0.28 | 0.05 |
| 1003 | 602. | 2.38 | 0.40 | 2.20 | 0.36 | 0.029 | 4.82 | 0.023 | 3.82 | 1.02 | 0.17 | 0.42 | 0.07 |
| 1005 | 572. | 2.13 | 0.37 | 2.08 | 0.36 | 0.037 | 6.47 | 0.038 | 6.64 | 1.00 | 0.17 | 0.62 | 0.11 |
| 1007 | 546. | 2.10 | 0.38 | 2.00 | 0.37 | 0.029 | 5.31 | 0.031 | 5.68 | 1.03 | 0.19 | 0.59 | 0.11 |
| 1011 | 580. | 2.19 | 0.38 | 2.18 | 0.38 | 0.038 | 6.55 | 0.032 | 5.52 | 0.95 | 0.16 | 0.71 | 0.12 |
| 1012 | 633. | 2.22 | 0.35 | 2.20 | 0.35 | 0.025 | 3.95 | 0.022 | 3.48 | 0.90 | 0.14 | 0.73 | 0.12 |
| 1013 | 607. | 2.35 | 0.39 | 2.28 | 0.38 | 0.027 | 4.45 | 0.027 | 4.45 | 1.02 | 0.17 | 0.52 | 0.08 |
| 1014 | 557. | 2.08 | 0.37 | 2.16 | 0.39 | 0.026 | 4.67 | 0.023 | 4.13 | 0.95 | 0.17 | 0.32 | 0.06 |
| 1017 | 528. | 2.05 | 0.39 | 2.04 | 0.39 | 0.029 | 5.49 | 0.030 | 5.68 | 0.72 | 0.14 | 0.43 | 0.08 |
| 1021 | 623. | 2.41 | 0.39 | 2.56 | 0.41 | 0.026 | 4.17 | 0.036 | 5.78 | 0.98 | 0.16 | 0.44 | 0.07 |
| 1023 | 604. | 2.21 | 0.36 | 2.24 | 0.37 | 0.035 | 5.79 | 0.030 | 4.97 | 0.93 | 0.15 | 0.50 | 0.08 |
| 1026 | 581. | 2.41 | 0.41 | 2.39 | 0.41 | 0.034 | 5.85 | 0.036 | 6.20 | 0.97 | 0.17 | 0.46 | 0.08 |
| 1028 | 464. | 1.85 | 0.40 | 1.93 | 0.42 | 0.036 | 7.76 | 0.037 | 7.97 | 0.98 | 0.21 | 0.41 | 0.09 |
| 1031 | 585. | 2.31 | 0.39 | 2.20 | 0.38 | 0.030 | 5.13 | 0.019 | 3.25 | 0.93 | 0.16 | 0.44 | 0.08 |
| 1034 | 465. | 1.73 | 0.37 | 1.71 | 0.37 | 0.028 | 6.02 | 0.011b | 2.36b | 0.73 | 0.16 | 0.37 | 0.08 |
| 1035 | 461. | 1.98 | 0.43 | 1.95 | 0.42 | 0.028 | 6.07 | 0.022 | 4.77 | 0.69 | 0.15 | 0.43 | 0.09 |
| 1040 | 537. | 2.22 | 0.41 | 2.23 | 0.42 | 0.022 | 4.10 | 0.018 | 3.35 | 1.34 | 0.25 | 0.45 | 0.08 |
| 1041 | 496. | 2.35 | 0.47 | 2.54 | 0.51 | 0.024 | 4.84 | 0.024 | 4.84 | 0.94 | 0.19 | 0.72 | 0.14 |
| 1043 | 537. | 2.07 | 0.38 | 2.22 | 0.41 | 0.023 | 4.28 | 0.023 | 4.28 | 0.88 | 0.16 | 0.59 | 0.11 |
| 1045 | 509. | 1.99 | 0.39 | 2.09 | 0.41 | 0.041 | 8.06 | 0.039 | 7.66 | 0.79 | 0.16 | 0.61 | 0.12 |
| 1047 | 700. | 2.37 | 0.34 | 2.56 | 0.36 | 0.038 | 5.43 | 0.036 | 5.14 | 1.13 | 0.16 | 0.36 | 0.05 |
| 1048 | 642. | 2.58 | 0.40 | 2.63 | 0.41 | 0.039 | 6.07 | 0.036 | 5.61 | 1.05 | 0.16 | 0.56 | 0.09 |
| 1050 | 503. | 1.96 | 0.39 | 2.13 | 0.42 | 0.035 | 6.96 | 0.029 | 5.76 | 0.83 | 0.16 | 0.59 | 0.12 |
| 1051 | 645. | 2.59 | 0.40 | 2.54 | 0.39 | 0.041 | 6.36 | 0.041 | 6.36 | 1.13 | 0.18 | 0.52 | 0.08 |
| 1052 | 580. | 2.51 | 0.43 | 2.47 | 0.42 | 0.033 | 5.69 | 0.036 | 6.21 | 1.03 | 0.18 | 0.70 | 0.12 |
| 1054 | 568. | 2.22 | 0.39 | 2.26 | 0.40 | 0.028 | 4.93 | 0.027 | 4.75 | 0.99 | 0.17 | 0.54 | 0.10 |
| 1055 | 574. | 2.31 | 0.40 | 2.42 | 0.42 | 0.037 | 6.44 | 0.037 | 6.44 | 0.83 | 0.14 | 0.55 | 0.10 |
| 1058 | 565. | 2.21 | 0.39 | 2.28 | 0.40 | 0.030 | 5.31 | 0.030 | 5.31 | 0.86 | 0.15 | 0.58 | 0.10 |
| 1059 | 468. | 2.19 | 0.47 | 2.13 | 0.46 | 0.039 | 8.33 | 0.036 | 7.69 | 1.04 | 0.22 | 0.33 | 0.07 |
| 1060 | 498. | 2.30 | 0.46 | 2.27 | 0.46 | 0.030 | 6.02 | 0.023 | 4.62 | 0.73 | 0.15 | 0.47 | 0.09 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP II — 1 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1061 | 486. | 0.7660 | 0.16 | 0.3553 | 0.07 | 1.7863 | 0.37 | 1.6295 | 0.34 | 1.9084 | 0.39 | 1.0157 | 0.21 |
| 1063 | 522. | 0.7170 | 0.14 | 0.3300 | 0.06 | 1.8632 | 0.36 | 1.7520 | 0.34 | 2.2839 | 0.44 | 1.1167 | 0.21 |
| 1066 | 480. | 0.6338 | 0.13 | 0.2762 | 0.06 | 1.7790 | 0.37 | 1.6559 | 0.34 | 2.2858 | 0.48 | 1.3449 | 0.28 |
| 1067 | 485. | 0.6124 | 0.13 | 0.2886 | 0.06 | 1.5556 | 0.32 | 1.4453 | 0.30 | 1.7391 | 0.36 | 0.9152 | 0.19 |
| 1069 | 424. | 0.6531 | 0.15 | 0.3027 | 0.07 | 1.7625 | 0.42 | 1.6520 | 0.39 | 2.0289 | 0.48 | 1.0798 | 0.25 |
| 1071 | 545. | 0.6507 | 0.12 | 0.3269 | 0.06 | 1.6107 | 0.30 | 1.5115 | 0.28 | 2.2645 | 0.42 | 1.1328 | 0.21 |
| 1073 | 541. | 0.7059 | 0.13 | 0.2707 | 0.05 | 1.9881 | 0.37 | 1.8542 | 0.34 | 2.1775 | 0.40 | 1.1732 | 0.22 |
| 1077 | 541. | 0.7864 | 0.14 | 0.4014 | 0.07 | 1.8023 | 0.33 | 1.6513 | 0.30 | 2.2437 | 0.41 | 1.0133 | 0.19 |
| 1078 | 627. | 0.7598 | 0.12 | 0.3979 | 0.06 | 1.7878 | 0.28 | 1.6647 | 0.26 | 1.9818 | 0.32 | 0.9239 | 0.15 |
| 1081 | 532. | 0.7080 | 0.13 | 0.3712 | 0.07 | 1.7687 | 0.33 | 1.6044 | 0.30 | 1.9950 | 0.38 | 0.9701 | 0.18 |
| 1082 | 582. | 0.3393a | 0.06 | 0.1461a | 0.02 | 1.0590a | 0.18 | 0.4551a | 0.08 | 2.0247 | 0.35 | 0.9927 | 0.17 |
| 1083 | 538. | 0.6435 | 0.12 | 0.3460 | 0.06 | 1.4745 | 0.27 | 1.3716 | 0.25 | 2.3555 | 0.44 | 0.9679 | 0.18 |
| 1086 | 415. | 0.5518 | 0.13 | 0.2467 | 0.06 | 1.6224 | 0.39 | 1.5186 | 0.36 | 1.7858 | 0.43 | 0.9166 | 0.22 |
| 1088 | 562. | 0.7257 | 0.13 | 0.3524 | 0.06 | 1.6645 | 0.30 | 1.5413 | 0.27 | 2.0530 | 0.36 | 0.9295 | 0.16 |
| 1090 | 529. | 0.6785 | 0.13 | 0.3080 | 0.06 | 1.6320 | 0.31 | 1.5236 | 0.29 | 1.8496 | 0.35 | 0.8012 | 0.15 |
| 1091 | 512. | 0.6134 | 0.12 | 0.3012 | 0.06 | 1.7090 | 0.33 | 1.3518 | 0.26 | 2.4316 | 0.47 | 1.3115 | 0.26 |
| 1094 | 594. | 0.6428 | 0.11 | 0.3252 | 0.05 | 1.6702 | 0.28 | 1.4565 | 0.24 | 2.2994 | 0.39 | 1.0829 | 0.18 |
| 1096 | 632. | 0.6912 | 0.11 | 0.3288 | 0.05 | 1.6920 | 0.27 | 1.5653 | 0.25 | 2.0056 | 0.32 | 1.0369 | 0.16 |
| 1098 | 498. | 0.7062 | 0.14 | 0.3866 | 0.08 | 1.9487 | 0.39 | 1.7580 | 0.35 | 2.4765 | 0.50 | 1.3095 | 0.26 |
| 1100 | 494. | 0.6344 | 0.13 | 0.3308 | 0.07 | 1.6819 | 0.34 | 1.5379 | 0.31 | 1.9311 | 0.39 | 0.9989 | 0.20 |
| 1103 | 575. | 0.6689 | 0.12 | 0.3369 | 0.06 | 1.7418 | 0.30 | 1.5524 | 0.27 | 1.7219 | 0.30 | 0.7884 | 0.14 |
| 1106 | 526. | 0.5997 | 0.11 | 0.2759 | 0.05 | 1.5584 | 0.30 | 1.4213 | 0.27 | 1.7814 | 0.34 | 1.0277 | 0.20 |
| 1107 | 446. | 0.6601 | 0.15 | 0.3072 | 0.07 | 1.6067 | 0.36 | 1.4424 | 0.32 | 1.5051 | 0.34 | 0.8120 | 0.18 |
| 1110 | 437. | 0.6219 | 0.14 | 0.3101 | 0.07 | 1.6555 | 0.38 | 1.5194 | 0.35 | 1.8402 | 0.42 | 0.8915 | 0.20 |
| 1112 | 585. | 0.6981 | 0.12 | 0.3442 | 0.06 | 1.8105 | 0.31 | 1.6908 | 0.29 | 2.1860 | 0.37 | 1.2293 | 0.21 |
| 1114 | 563. | 0.6757 | 0.12 | 0.3169 | 0.06 | 1.9848 | 0.35 | 1.8202 | 0.32 | 2.3440 | 0.42 | 1.2241 | 0.22 |
| 1116 | 552. | 0.6704 | 0.12 | 0.2919 | 0.05 | 1.5620 | 0.28 | 1.4146 | 0.26 | 2.0547 | 0.37 | 1.0185 | 0.18 |
| 1118 | 542. | 0.6492 | 0.12 | 0.2958 | 0.05 | 1.6885 | 0.31 | 1.5853 | 0.29 | 2.1617 | 0.40 | 1.0063 | 0.18 |
| 1120 | 525. | 0.7509 | 0.14 | 0.3424 | 0.06 | 2.0030 | 0.38 | 1.8717 | 0.36 | 2.3378 | 0.44 | 1.0701 | 0.20 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Rat 1082 had a small, left epididymis and cauda epididymis, small, flaccid left testis, and a fluid filled left testis minus tunica albuginea; values included in group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT | | TESTIS RIGHT | | PROSTATE | | PITUITARY | | BRAIN | | LIVER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1061 | 486. | 0.7284 | 0.15 | 1.8528 | 0.38 | 0.4761 | 0.10 | 0.011 | 2.26 | 2.16 | 0.44 | 20.77 | 4.27 |
| 1063 | 522. | 0.7113 | 0.14 | 1.8505 | 0.35 | 0.8821 | 0.17 | 0.012 | 2.30 | 2.26 | 0.43 | 26.60 | 5.10 |
| 1066 | 480. | 0.6396 | 0.13 | 1.5745 | 0.33 | 0.2716b | 0.06 | 0.011 | 2.29 | 2.10 | 0.44 | 20.80 | 4.33 |
| 1067 | 485. | 0.6431 | 0.13 | 1.5154 | 0.31 | 0.5982 | 0.12 | 0.012 | 2.47 | 1.98 | 0.41 | 20.97 | 4.32 |
| 1069 | 424. | 0.6310 | 0.15 | 1.6782 | 0.40 | 0.8284 | 0.20 | 0.011 | 2.59 | 2.04 | 0.48 | 21.61 | 5.10 |
| 1071 | 545. | 0.6846 | 0.12 | 1.5542 | 0.28 | 1.3268 | 0.24 | 0.012 | 2.20 | 2.37 | 0.43 | 26.35 | 4.83 |
| 1073 | 541. | 0.7456 | 0.14 | 1.9825 | 0.37 | 1.3308 | 0.24 | 0.016 | 2.96 | 2.26 | 0.42 | 27.94 | 5.16 |
| 1077 | 541. | 0.7614 | 0.14 | 1.8037 | 0.33 | 0.8947 | 0.16 | 0.011 | 2.03 | 2.08 | 0.38 | 25.28 | 4.67 |
| 1078 | 627. | 0.7545 | 0.12 | 1.7230 | 0.27 | 1.3800 | 0.22 | 0.014 | 2.23 | 2.25 | 0.36 | 30.05 | 4.79 |
| 1081 | 532. | 0.7025 | 0.13 | 1.7244 | 0.32 | 1.3717 | 0.26 | 0.014 | 2.63 | 2.35 | 0.44 | 22.81 | 4.29 |
| 1082 | 582. | 0.6989 | 0.12 | 1.7261 | 0.30 | 1.2924 | 0.22 | 0.016 | 2.75 | 2.17 | 0.37 | 24.34 | 4.18 |
| 1083 | 538. | 0.6288 | 0.12 | 1.4717 | 0.27 | 1.3446 | 0.25 | 0.014 | 2.60 | 2.30 | 0.43 | 23.15 | 4.30 |
| 1086 | 415. | 0.6170 | 0.15 | 1.6474 | 0.40 | 0.9942 | 0.24 | 0.012 | 2.89 | 2.07 | 0.50 | 15.51 | 3.74 |
| 1088 | 562. | 0.6845 | 0.12 | 1.6176 | 0.29 | 1.5251 | 0.27 | 0.014 | 2.49 | 2.33 | 0.41 | 29.13 | 5.18 |
| 1090 | 529. | 0.7019 | 0.13 | 1.6796 | 0.32 | 1.2761 | 0.24 | 0.017 | 3.21 | 2.24 | 0.42 | 21.48 | 4.06 |
| 1091 | 512. | 0.6599 | 0.13 | 1.7494 | 0.34 | 1.1454 | 0.22 | 0.014 | 2.73 | 2.45 | 0.48 | 27.07 | 5.29 |
| 1094 | 594. | 0.6911 | 0.12 | 1.6621 | 0.28 | 1.0867 | 0.18 | 0.025 | 4.21 | 2.28 | 0.38 | 29.60 | 4.98 |
| 1096 | 632. | 0.7465 | 0.12 | 1.7774 | 0.28 | 1.0373 | 0.16 | 0.016 | 2.53 | 2.47 | 0.39 | 32.95 | 5.21 |
| 1098 | 498. | 0.7631 | 0.15 | 1.9639 | 0.39 | 1.1216 | 0.22 | 0.015 | 3.01 | 2.38 | 0.48 | 30.37 | 6.10 |
| 1100 | 494. | 0.6229 | 0.13 | 1.6532 | 0.33 | 1.1903 | 0.24 | 0.024 | 4.86 | 2.33 | 0.47 | 22.79 | 4.61 |
| 1103 | 575. | 0.6993c | 0.12 | 1.7282 | 0.30 | 0.8336 | 0.14 | 0.013 | 2.26 | 2.35 | 0.41 | 27.76 | 4.83 |
| 1106 | 526. | 0.6575 | 0.12 | 1.6263 | 0.31 | 1.2108 | 0.23 | 0.013 | 2.47 | 2.13 | 0.40 | 22.68 | 4.31 |
| 1107 | 446. | 0.6578 | 0.15 | 1.6277 | 0.36 | 0.9999 | 0.22 | 0.033 | 7.40 | 2.15 | 0.48 | 19.46 | 4.36 |
| 1110 | 437. | 0.6330 | 0.14 | 1.6504 | 0.38 | 0.9081 | 0.21 | 0.015 | 3.43 | 2.33 | 0.53 | 20.50 | 4.69 |
| 1112 | 585. | 0.6748 | 0.12 | 1.8656 | 0.32 | 1.4610 | 0.25 | 0.018 | 3.08 | 2.64 | 0.45 | 28.97 | 4.95 |
| 1114 | 563. | 0.7494 | 0.13 | 1.9312 | 0.34 | 1.1564 | 0.20 | 0.023 | 4.08 | 2.55 | 0.45 | 27.29 | 4.85 |
| 1116 | 552. | 0.6639 | 0.12 | 1.5988 | 0.29 | 1.2054 | 0.22 | 0.026 | 4.71 | 2.36 | 0.43 | 21.37 | 3.87 |
| 1118 | 542. | 0.6786 | 0.12 | 1.7496 | 0.32 | 1.0908 | 0.20 | 0.023 | 4.24 | 2.37 | 0.44 | 22.51 | 4.15 |
| 1120 | 525. | 0.6911 | 0.13 | 1.9723 | 0.38 | 1.1517 | 0.22 | 0.028 | 5.33 | 2.43 | 0.46 | 22.49 | 4.28 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 1066 had a small prostate; values included in group averages and statistical analyses.

c. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | | SPLEEN | | THYMUS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1061 | 486. | 2.06 | 0.42 | 1.90 | 0.39 | 0.016 | 3.29 | 0.023 | 4.73 | 0.76 | 0.16 | 0.60 | 0.12 |
| 1063 | 522. | 2.50 | 0.48 | 2.46 | 0.47 | 0.041 | 7.85 | 0.034 | 6.51 | 0.84 | 0.16 | 0.61 | 0.12 |
| 1066 | 480. | 2.03 | 0.42 | 2.10 | 0.44 | 0.028 | 5.83 | 0.022 | 4.58 | 0.64 | 0.13 | 0.64 | 0.13 |
| 1067 | 485. | 1.95 | 0.40 | 2.07 | 0.43 | 0.024 | 4.95 | 0.027 | 5.57 | 0.65 | 0.13 | 0.46 | 0.09 |
| 1069 | 424. | 2.10 | 0.50 | 1.98 | 0.47 | 0.020 | 4.72 | 0.009 | 2.12 | 0.72 | 0.17 | 0.39 | 0.09 |
| 1071 | 545. | 2.43 | 0.44 | 2.46 | 0.45 | 0.018 | 3.30 | 0.024 | 4.40 | 0.84 | 0.15 | 0.42 | 0.08 |
| 1073 | 541. | 2.43 | 0.45 | 2.50 | 0.46 | 0.037 | 6.84 | 0.037 | 6.84 | 0.68 | 0.12 | 0.22 | 0.04 |
| 1077 | 541. | 2.39 | 0.44 | 2.18 | 0.40 | 0.044 | 8.13 | 0.041 | 7.58 | 0.58 | 0.11 | 0.57 | 0.10 |
| 1078 | 627. | 2.67 | 0.42 | 2.69 | 0.43 | 0.036 | 5.74 | 0.032 | 5.10 | 0.92 | 0.15 | 0.42 | 0.07 |
| 1081 | 532. | 2.24 | 0.42 | 2.41 | 0.45 | 0.028 | 5.26 | 0.028 | 5.26 | 0.83 | 0.16 | 0.37 | 0.07 |
| 1082 | 582. | 2.16 | 0.37 | 2.15 | 0.37 | 0.035 | 6.01 | 0.031 | 5.33 | 0.86 | 0.15 | 0.46 | 0.08 |
| 1083 | 538. | 2.27 | 0.42 | 2.23 | 0.41 | 0.039 | 7.25 | 0.030 | 5.58 | 0.75 | 0.14 | 0.37 | 0.07 |
| 1086 | 415. | 1.79 | 0.43 | 1.92 | 0.46 | 0.028 | 6.75 | 0.026 | 6.26 | 0.74 | 0.18 | 0.29 | 0.07 |
| 1088 | 562. | 2.22 | 0.40 | 2.02 | 0.36 | 0.032 | 5.69 | 0.027 | 4.80 | 0.85 | 0.15 | 0.40 | 0.07 |
| 1090 | 529. | 2.27 | 0.43 | 2.27 | 0.43 | 0.025 | 4.72 | 0.024 | 4.54 | 0.75 | 0.14 | 0.31 | 0.06 |
| 1091 | 512. | 2.68 | 0.52 | 2.56 | 0.50 | 0.029 | 5.66 | 0.030 | 5.86 | 0.89 | 0.17 | 0.55 | 0.11 |
| 1094 | 594. | 2.39 | 0.40 | 2.38 | 0.40 | 0.048 | 8.08 | 0.041 | 6.90 | 1.00 | 0.17 | 0.53 | 0.09 |
| 1096 | 632. | 2.39 | 0.38 | 2.45 | 0.39 | 0.024 | 3.80 | 0.024 | 3.80 | 0.95 | 0.15 | 0.69 | 0.11 |
| 1098 | 498. | 2.35 | 0.47 | 2.44 | 0.49 | 0.030 | 6.02 | 0.028 | 5.62 | 0.80 | 0.16 | 0.61 | 0.12 |
| 1100 | 494. | 2.59 | 0.52 | 2.37 | 0.48 | 0.038 | 7.69 | 0.033 | 6.68 | 0.82 | 0.16 | 0.55 | 0.11 |
| 1103 | 575. | 2.54 | 0.44 | 2.59 | 0.45 | 0.040 | 6.96 | 0.036 | 6.26 | 0.92 | 0.16 | 0.65 | 0.11 |
| 1106 | 526. | 2.19 | 0.42 | 2.21 | 0.42 | 0.024 | 4.56 | 0.023 | 4.37 | 0.75 | 0.14 | 0.58 | 0.11 |
| 1107 | 446. | 2.05 | 0.46 | 2.05 | 0.46 | 0.034 | 7.62 | 0.035 | 7.85 | 0.60 | 0.13 | 0.36 | 0.08 |
| 1110 | 437. | 2.21 | 0.50 | 2.16 | 0.49 | 0.020 | 4.58 | 0.019 | 4.35 | 0.73 | 0.17 | 0.44 | 0.10 |
| 1112 | 585. | 2.90 | 0.50 | 3.01 | 0.51 | 0.039 | 6.67 | 0.043 | 7.35 | 1.24 | 0.21 | 0.35 | 0.06 |
| 1114 | 563. | 2.80 | 0.50 | 2.84 | 0.50 | 0.042 | 7.46 | 0.037 | 6.57 | 1.03 | 0.18 | 0.48 | 0.08 |
| 1116 | 552. | 2.33 | 0.42 | 2.37 | 0.43 | 0.041 | 7.43 | 0.027 | 4.89 | 0.90 | 0.16 | 0.32 | 0.06 |
| 1118 | 542. | 2.74 | 0.50 | 2.73 | 0.50 | 0.032 | 5.90 | 0.029 | 5.35 | 1.06 | 0.20 | 0.41 | 0.08 |
| 1120 | 525. | 2.46 | 0.47 | 2.53 | 0.48 | 0.030 | 5.71 | 0.026 | 4.95 | 1.00 | 0.19 | 0.36 | 0.07 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1122 | 518. | 0.7208 | 0.14 | 0.3470 | 0.07 | 1.6159 | 0.31 | 1.5221 | 0.29 | 2.0470 | 0.40 | 1.0874 | 0.21 |
| 1123 | 505. | 0.6070 | 0.12 | 0.2968 | 0.06 | 1.8182 | 0.36 | 1.6922 | 0.34 | 2.3013 | 0.46 | 1.2447 | 0.25 |
| 1127 | 452. | 0.6614 | 0.15 | 0.3302 | 0.07 | 1.6347 | 0.36 | 1.5124 | 0.33 | 1.7196 | 0.38 | 0.9666 | 0.21 |
| 1129 | 568. | 0.7407 | 0.13 | 0.3502 | 0.06 | 1.9335 | 0.34 | 1.8129 | 0.32 | 2.1930 | 0.39 | 1.1095 | 0.20 |
| 1131 | 564. | 0.6952 | 0.12 | 0.3581 | 0.06 | 1.7682 | 0.31 | 1.6707 | 0.30 | 2.3326 | 0.41 | 1.0857 | 0.19 |
| 1132 | 529. | 0.6725 | 0.13 | 0.3378 | 0.06 | 1.7645 | 0.33 | 1.6362 | 0.31 | 2.3904 | 0.45 | 1.2665 | 0.24 |
| 1134 | 579. | 0.7615 | 0.13 | 0.3358 | 0.06 | 1.8988 | 0.33 | 1.7685 | 0.30 | 2.1383 | 0.37 | 1.0924 | 0.19 |
| 1135 | 505. | 0.6679 | 0.13 | 0.3218 | 0.06 | 1.7237 | 0.34 | 1.6026 | 0.32 | 1.8500 | 0.37 | 0.9966 | 0.20 |
| 1136 | 441. | 0.6855 | 0.16 | 0.3406 | 0.08 | 1.9009 | 0.43 | 1.6834 | 0.38 | 1.3217 | 0.30 | 0.7638 | 0.17 |
| 1139 | 457. | 0.6190 | 0.14 | 0.3274 | 0.07 | 1.6472 | 0.36 | 1.5631 | 0.34 | 1.7038 | 0.37 | 0.9308 | 0.20 |
| 1141 | 561. | 0.6450 | 0.11 | 0.3546 | 0.06 | 1.5627 | 0.28 | 1.4612 | 0.26 | 1.7528 | 0.31 | 0.8441 | 0.15 |
| 1142 | 506. | 0.6121 | 0.12 | 0.2953 | 0.06 | 1.6597 | 0.33 | 1.5318 | 0.30 | 2.0896 | 0.41 | 0.9784 | 0.19 |
| 1145 | 413. | 0.6915 | 0.17 | 0.3255 | 0.08 | 1.8607 | 0.45 | 1.7494 | 0.42 | 1.8492 | 0.45 | 1.0012 | 0.24 |
| 1147 | 513. | 0.7098 | 0.14 | 0.3588 | 0.07 | 1.6976 | 0.33 | 1.6060 | 0.31 | 1.7211 | 0.34 | 0.9009 | 0.18 |
| 1149 | 512. | 0.8130 | 0.16 | 0.4132 | 0.08 | 2.0462 | 0.40 | 1.9344 | 0.38 | 2.3386 | 0.46 | 1.1584 | 0.23 |
| 1151 | 588. | 0.6764 | 0.12 | 0.3179 | 0.05 | 1.8091 | 0.31 | 1.5925 | 0.27 | 2.2078 | 0.38 | 0.9860 | 0.17 |
| 1153 | 539. | 0.6843 | 0.13 | 0.3349 | 0.06 | 3.0171a | 0.56 | 2.7687a | 0.51 | 1.9461 | 0.36 | 1.0849 | 0.20 |
| 1154 | 580. | 0.5970 | 0.10 | 0.2924 | 0.05 | 1.7007 | 0.29 | 1.4274 | 0.25 | 1.8889 | 0.32 | 0.8750 | 0.15 |
| 1158 | 550. | 0.6503 | 0.12 | 0.3024 | 0.05 | 1.7179 | 0.31 | 1.5439 | 0.28 | 2.1813 | 0.40 | 1.1530 | 0.21 |
| 1159 | 587. | 0.7223 | 0.12 | 0.3698 | 0.06 | 1.8480 | 0.31 | 1.6935 | 0.29 | 2.3263 | 0.40 | 1.1211 | 0.19 |
| 1162 | 550. | 0.6669 | 0.12 | 0.3101 | 0.06 | 1.7050 | 0.31 | 1.5581 | 0.28 | 2.0033 | 0.36 | 0.8661 | 0.16 |
| 1164 | 523. | 0.7675 | 0.15 | 0.3613 | 0.07 | 1.9198 | 0.37 | 1.7783 | 0.34 | 1.9163 | 0.37 | 0.8735 | 0.17 |
| 1167 | 566. | 0.6801 | 0.12 | 0.3252 | 0.06 | 1.7101 | 0.30 | 1.5089 | 0.27 | 2.0326 | 0.36 | 1.0820 | 0.19 |
| 1168 | 571. | 0.6367 | 0.11 | 0.2903 | 0.05 | 1.8227 | 0.32 | 1.6190 | 0.28 | 1.5592 | 0.27 | 0.9914 | 0.17 |
| 1171 | 453. | 0.5776 | 0.13 | 0.2903 | 0.06 | 1.5240 | 0.34 | 1.4063 | 0.31 | 1.8020 | 0.40 | 1.0915 | 0.24 |
| 1173 | 530. | 0.6524 | 0.12 | 0.3273 | 0.06 | 1.5741 | 0.30 | 1.4256 | 0.27 | 2.1183 | 0.40 | 1.0216 | 0.19 |
| 1175 | 498. | 0.6272 | 0.12 | 0.2745 | 0.06 | 1.7498 | 0.35 | 1.6409 | 0.33 | 1.7132 | 0.34 | 1.0295 | 0.21 |
| 1176 | 494. | 0.5684 | 0.12 | 0.2863 | 0.06 | 1.9718 | 0.40 | 1.8165 | 0.37 | 1.4040 | 0.28 | 0.8061 | 0.16 |
| 1177 | 480. | 0.7391 | 0.15 | 0.3494 | 0.07 | 2.2666 | 0.47 | 2.1025 | 0.44 | 2.0790 | 0.43 | 1.1398 | 0.24 |
| 1180 | 586. | 0.6971 | 0.12 | 0.3350 | 0.06 | 1.9639 | 0.34 | 1.8501 | 0.32 | 2.1032 | 0.36 | 1.0329 | 0.18 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Rat 1153 had a large, left testis and testis minus tunica albuginea; values included in group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT | | TESTIS RIGHT | | PROSTATE | | PITUITARY | | BRAIN | | LIVER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1122 | 518. | 0.6838 | 0.13 | 1.6035 | 0.31 | 0.4770 | 0.09 | 0.010 | 1.93 | 2.40 | 0.46 | 28.00 | 5.40 |
| 1123 | 505. | 0.6106 | 0.12 | 1.7572 | 0.35 | 0.3938 | 0.08 | 0.013 | 2.57 | 2.40 | 0.48 | 27.20 | 5.39 |
| 1127 | 452. | 0.6629 | 0.15 | 1.6197 | 0.36 | 0.4890 | 0.11 | 0.012 | 2.65 | 2.20 | 0.49 | 28.00 | 6.19 |
| 1129 | 568. | 0.7111 | 0.12 | 1.8049 | 0.32 | 0.9503 | 0.17 | 0.016 | 2.82 | 2.29 | 0.40 | 37.20 | 6.55 |
| 1131 | 564. | 0.6877 | 0.12 | 1.7444 | 0.31 | 0.9830 | 0.17 | 0.010 | 1.77 | 2.23 | 0.40 | 31.29 | 5.55 |
| 1132 | 529. | 0.6987 | 0.13 | 1.7356 | 0.33 | 1.1426 | 0.22 | 0.016 | 3.02 | 2.22 | 0.42 | 24.46 | 4.62 |
| 1134 | 579. | 0.7236 | 0.12 | 1.9533 | 0.34 | 1.0100 | 0.17 | 0.011 | 1.90 | 2.40 | 0.41 | 31.25 | 5.40 |
| 1135 | 505. | 0.6703 | 0.13 | 1.6461 | 0.32 | 1.1130 | 0.22 | 0.014 | 2.77 | 2.17 | 0.43 | 26.42 | 5.23 |
| 1136 | 441. | 0.6601 | 0.15 | 1.8638 | 0.42 | 0.8226 | 0.19 | 0.011 | 2.49 | 2.16 | 0.49 | 24.58 | 5.57 |
| 1139 | 457. | 0.6262 | 0.14 | 1.7137 | 0.37 | 1.0147 | 0.22 | 0.011 | 2.41 | 2.29 | 0.50 | 26.94 | 5.89 |
| 1141 | 561. | 0.6701b | 0.12 | 1.5828 | 0.28 | 1.2215 | 0.22 | 0.012 | 2.14 | 2.17 | 0.39 | 24.41 | 4.35 |
| 1142 | 506. | 0.6442 | 0.13 | 1.6204 | 0.32 | 0.9640 | 0.19 | 0.013 | 2.57 | 2.16 | 0.43 | 24.96 | 4.93 |
| 1145 | 413. | 0.6614 | 0.16 | 1.8248 | 0.44 | 1.0366 | 0.25 | 0.014 | 3.39 | 2.04 | 0.49 | 24.17 | 5.85 |
| 1147 | 513. | 0.6789 | 0.13 | 1.7369 | 0.34 | 1.0363 | 0.20 | 0.010 | 1.95 | 2.33 | 0.45 | 26.73 | 5.21 |
| 1149 | 512. | 0.7538 | 0.15 | 2.0918 | 0.41 | 1.3772 | 0.27 | 0.015 | 2.93 | 2.36 | 0.46 | 28.43 | 5.55 |
| 1151 | 588. | 0.6490 | 0.11 | 1.7336 | 0.29 | 1.1726 | 0.20 | 0.017 | 2.89 | 2.41 | 0.41 | 31.06 | 5.28 |
| 1153 | 539. | 0.7007 | 0.13 | 1.7874 | 0.33 | 1.2844 | 0.24 | 0.013 | 2.41 | 2.35 | 0.44 | 15.00 | 2.78 |
| 1154 | 580. | 0.6741 | 0.12 | 1.7880 | 0.31 | 1.1087 | 0.19 | 0.023 | 3.96 | 2.23 | 0.38 | 31.44 | 5.42 |
| 1158 | 550. | 0.6996 | 0.13 | 1.7801 | 0.32 | 0.8279 | 0.15 | 0.019 | 3.45 | 2.28 | 0.41 | 33.93 | 6.17 |
| 1159 | 587. | 0.7245 | 0.12 | 1.8539 | 0.32 | 1.1479 | 0.20 | 0.025 | 4.26 | 2.24 | 0.38 | 28.29 | 4.82 |
| 1162 | 550. | 0.6761b | 0.12 | 1.6565 | 0.30 | 1.2450 | 0.23 | 0.014 | 2.54 | 2.31 | 0.42 | 31.33 | 5.70 |
| 1164 | 523. | 0.7592 | 0.14 | 1.9644 | 0.38 | 1.2929 | 0.25 | 0.013 | 2.48 | 2.41 | 0.46 | 30.89 | 5.91 |
| 1167 | 566. | 0.7044 | 0.12 | 1.7935 | 0.32 | 1.1156 | 0.20 | 0.018 | 3.18 | 2.23 | 0.39 | 33.05 | 5.84 |
| 1168 | 571. | 0.6950 | 0.12 | 1.9170 | 0.34 | 0.9715 | 0.17 | 0.021 | 3.68 | 2.51 | 0.44 | 31.60 | 5.53 |
| 1171 | 453. | 0.5841 | 0.13 | 1.5517 | 0.34 | 1.0645 | 0.23 | 0.020 | 4.42 | 2.31 | 0.51 | 25.18 | 5.56 |
| 1173 | 530. | 0.6720 | 0.13 | 1.6114 | 0.30 | 1.1758 | 0.22 | 0.028 | 5.28 | 2.41 | 0.45 | 27.19 | 5.13 |
| 1175 | 498. | 0.6517 | 0.13 | 1.7506 | 0.35 | 1.1055 | 0.22 | 0.012 | 2.41 | 2.53 | 0.51 | 26.00 | 5.22 |
| 1176 | 494. | 0.6153 | 0.12 | 1.9358 | 0.39 | 0.9663 | 0.20 | 0.032 | 6.48 | 2.33 | 0.47 | 25.54 | 5.17 |
| 1177 | 480. | 0.7824 | 0.16 | 2.2229 | 0.46 | 1.2319 | 0.26 | 0.015 | 3.12 | 2.43 | 0.51 | 34.48 | 7.18 |
| 1180 | 586. | 0.7608 | 0.13 | 1.9351 | 0.33 | 1.0538 | 0.18 | 0.025 | 4.27 | 2.47 | 0.42 | 28.35 | 4.84 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 9): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | | SPLEEN | | THYMUS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1122 | 518. | 2.33 | 0.45 | 2.31 | 0.44 | 0.024 | 4.63 | 0.020 | 3.86 | 1.02 | 0.20 | 0.49 | 0.09 |
| 1123 | 505. | 2.40 | 0.48 | 2.40 | 0.48 | 0.030 | 5.94 | 0.032 | 6.34 | 0.80 | 0.16 | 0.29 | 0.06 |
| 1127 | 452. | 2.10 | 0.46 | 2.11 | 0.47 | 0.024 | 5.31 | 0.026 | 5.75 | 0.75 | 0.16 | 0.28 | 0.06 |
| 1129 | 568. | 2.58 | 0.45 | 2.78 | 0.49 | 0.036 | 6.34 | 0.032 | 5.63 | 0.83 | 0.15 | 0.72 | 0.13 |
| 1131 | 564. | 2.81 | 0.50 | 2.67 | 0.47 | 0.024 | 4.26 | 0.028 | 4.96 | 0.95 | 0.17 | 0.59 | 0.10 |
| 1132 | 529. | 2.43 | 0.46 | 2.49 | 0.47 | 0.039 | 7.37 | 0.036 | 6.80 | 0.59 | 0.11 | 0.37 | 0.07 |
| 1134 | 579. | 2.52 | 0.44 | 2.63 | 0.45 | 0.037 | 6.39 | 0.038 | 6.56 | 0.95 | 0.16 | 0.66 | 0.11 |
| 1135 | 505. | 2.46 | 0.49 | 2.35 | 0.46 | 0.026 | 5.15 | 0.027 | 5.35 | 0.75 | 0.15 | 0.33 | 0.06 |
| 1136 | 441. | 2.49 | 0.56 | 2.41 | 0.55 | 0.039 | 8.84 | 0.032 | 7.26 | 0.72 | 0.16 | 0.46 | 0.10 |
| 1139 | 457. | 2.50 | 0.55 | 2.48 | 0.54 | 0.037 | 8.10 | 0.032 | 7.00 | 0.56 | 0.12 | 0.24 | 0.05 |
| 1141 | 561. | 2.23 | 0.40 | 2.24 | 0.40 | 0.030 | 5.35 | 0.030 | 5.35 | 0.94 | 0.17 | 0.34 | 0.06 |
| 1142 | 506. | 2.19 | 0.43 | 2.16 | 0.43 | 0.029 | 5.73 | 0.026 | 5.14 | 0.65 | 0.13 | 0.48 | 0.09 |
| 1145 | 413. | 2.20 | 0.53 | 2.02 | 0.49 | 0.028 | 6.78 | 0.019 | 4.60 | 0.69 | 0.17 | 0.18 | 0.04 |
| 1147 | 513. | 2.24 | 0.44 | 2.17 | 0.42 | 0.032 | 6.24 | 0.027 | 5.26 | 0.86 | 0.17 | 0.27 | 0.05 |
| 1149 | 512. | 2.74 | 0.54 | 2.50 | 0.49 | 0.034 | 6.64 | 0.029 | 5.66 | 0.77 | 0.15 | 0.30 | 0.06 |
| 1151 | 588. | 2.58 | 0.44 | 2.78 | 0.47 | 0.027 | 4.59 | 0.018 | 3.06 | 0.91 | 0.15 | 0.73 | 0.12 |
| 1153 | 539. | 2.46 | 0.46 | 2.55 | 0.47 | 0.024 | 4.45 | 0.021 | 3.90 | 0.93 | 0.17 | 0.55 | 0.10 |
| 1154 | 580. | 2.72 | 0.47 | 2.71 | 0.47 | 0.030 | 5.17 | 0.028 | 4.83 | 1.01 | 0.17 | 0.67 | 0.12 |
| 1158 | 550. | 2.46 | 0.45 | 2.57 | 0.47 | 0.029 | 5.27 | 0.024 | 4.36 | 0.86 | 0.16 | 0.49 | 0.09 |
| 1159 | 587. | 2.54 | 0.43 | 2.92 | 0.50 | 0.042 | 7.16 | 0.034 | 5.79 | 1.08 | 0.18 | 0.44 | 0.07 |
| 1162 | 550. | 2.59 | 0.47 | 2.71 | 0.49 | 0.027 | 4.91 | 0.027 | 4.91 | 0.78 | 0.14 | 0.35 | 0.06 |
| 1164 | 523. | 2.67 | 0.51 | 2.62 | 0.50 | 0.035 | 6.69 | 0.030 | 5.74 | 0.80 | 0.15 | 0.44 | 0.08 |
| 1167 | 566. | 2.56 | 0.45 | 2.56 | 0.45 | 0.029 | 5.12 | 0.031 | 5.48 | 1.17 | 0.21 | 0.73 | 0.13 |
| 1168 | 571. | 2.45 | 0.43 | 2.43 | 0.42 | 0.029 | 5.08 | 0.029 | 5.08 | 0.94 | 0.16 | 0.40 | 0.07 |
| 1171 | 453. | 2.09 | 0.46 | 1.95 | 0.43 | 0.031 | 6.84 | 0.032 | 7.06 | 0.77 | 0.17 | 0.40 | 0.09 |
| 1173 | 530. | 2.28 | 0.43 | 2.37 | 0.45 | 0.028 | 5.28 | 0.033 | 6.23 | 0.73 | 0.14 | 0.51 | 0.10 |
| 1175 | 498. | 2.21 | 0.44 | 2.45 | 0.49 | 0.029 | 5.82 | 0.022 | 4.42 | 0.94 | 0.19 | 0.35 | 0.07 |
| 1176 | 494. | 2.56 | 0.52 | 2.69 | 0.54 | 0.036 | 7.29 | 0.029 | 5.87 | 0.76 | 0.15 | 0.44 | 0.09 |
| 1177 | 480. | 2.76 | 0.58 | 2.79 | 0.58 | 0.034 | 7.08 | 0.030 | 6.25 | 0.89 | 0.18 | 0.36 | 0.08 |
| 1180 | 586. | 2.54 | 0.43 | 2.51 | 0.43 | 0.036 | 6.14 | 0.037 | 6.31 | 1.05 | 0.18 | 0.40 | 0.07 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 10): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT | | CAUDA EPIDIDYMIS LEFT | | TESTIS LEFT | | L. TESTIS MINUS TUNICA ALBUGINEA | | SEMINAL VESICLES WITH FLUID | | SEMINAL VESICLES WITHOUT FLUID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1182 | 458. | 0.5873 | 0.13 | 0.2692 | 0.06 | 1.6842 | 0.37 | 1.5580 | 0.34 | 2.1825 | 0.48 | 1.0993 | 0.24 |
| 1184 | 547. | 0.7364 | 0.13 | 0.3508 | 0.06 | 1.9148 | 0.35 | 1.7769 | 0.32 | 2.8035 | 0.51 | 1.3573 | 0.25 |
| 1186 | 498. | 0.6724 | 0.14 | 0.3462 | 0.07 | 1.5726 | 0.32 | 1.4546 | 0.29 | 1.6253 | 0.33 | 0.7547 | 0.15 |
| 1188 | 474. | 0.6851 | 0.14 | 0.3285 | 0.07 | 1.7130 | 0.36 | 1.5980 | 0.34 | 1.8294 | 0.38 | 1.0218 | 0.22 |
| 1189 | 591. | 0.7693 | 0.13 | 0.4167 | 0.07 | 1.8304 | 0.31 | 1.5499 | 0.26 | 2.0923 | 0.35 | 0.9952 | 0.17 |
| 1192 | 500. | 0.6944 | 0.14 | 0.3106 | 0.06 | 1.7946 | 0.36 | 1.5264 | 0.30 | 2.2638 | 0.45 | 1.3117 | 0.26 |
| 1194 | 549. | 0.7103 | 0.13 | 0.3404 | 0.06 | 1.7653 | 0.32 | 1.6519 | 0.30 | 2.2778 | 0.41 | 1.1574 | 0.21 |
| 1195 | 510. | 0.6484 | 0.13 | 0.3165 | 0.06 | 1.6721 | 0.33 | 1.5753 | 0.31 | 1.8174 | 0.36 | 0.9382 | 0.18 |
| 1198 | 682. | 0.7207 | 0.10 | 0.3662 | 0.05 | 1.9297 | 0.28 | 1.7940 | 0.26 | 2.2576 | 0.33 | 1.1818 | 0.17 |
| 1203 | 488. | 0.5748 | 0.12 | 0.2920 | 0.06 | 1.5606 | 0.32 | 1.4555 | 0.30 | 2.0476 | 0.42 | 0.9225 | 0.19 |
| 1204 | 476. | 0.7346 | 0.15 | 0.3820 | 0.08 | 1.7581 | 0.37 | 1.6592 | 0.35 | 2.1362 | 0.45 | 1.0182 | 0.21 |
| 1207 | 499. | 0.7013 | 0.14 | 0.3523 | 0.07 | 1.7531 | 0.35 | 1.6424 | 0.33 | 2.0554 | 0.41 | 1.0792 | 0.22 |
| 1209 | 536. | 0.6512 | 0.12 | 0.3423 | 0.06 | 1.7328 | 0.32 | 1.5972 | 0.30 | 2.0879 | 0.39 | 1.0570 | 0.20 |
| 1211 | 472. | 0.6746 | 0.14 | 0.3294 | 0.07 | 1.7361 | 0.37 | 1.6305 | 0.34 | 2.2509 | 0.48 | 1.2076 | 0.26 |
| 1212 | 572. | 0.7302 | 0.13 | 0.3596 | 0.06 | 1.9206 | 0.34 | 1.8200 | 0.32 | 2.5826 | 0.45 | 1.1246 | 0.20 |
| 1215 | 518. | 0.6593 | 0.13 | 0.3135 | 0.06 | 1.8977 | 0.37 | 1.7249 | 0.33 | 1.8533 | 0.36 | 1.0642 | 0.20 |
| 1216 | 534. | 0.6832 | 0.13 | 0.3559 | 0.07 | 1.7087 | 0.32 | 1.4910 | 0.28 | 2.0138 | 0.38 | 1.0114 | 0.19 |
| 1217 | 515. | 0.6969 | 0.14 | 0.3209 | 0.06 | 1.8089 | 0.35 | 1.6898 | 0.33 | 1.7647 | 0.34 | 0.9204 | 0.18 |
| 1219 | 418. | 0.5811 | 0.14 | 0.2735 | 0.06 | 1.6144 | 0.39 | 1.4823 | 0.35 | 2.0568 | 0.49 | 1.1085 | 0.26 |
| 1221 | 427. | 0.5729 | 0.13 | 0.2820 | 0.07 | 1.7055 | 0.40 | 1.5490 | 0.36 | 1.5690 | 0.37 | 0.9655 | 0.23 |
| 1222 | 520. | 0.6980 | 0.13 | 0.3349 | 0.06 | 2.0374 | 0.39 | 1.8144 | 0.35 | 2.1344 | 0.41 | 1.1960 | 0.23 |
| 1224 | 497. | 0.6952 | 0.14 | 0.3592 | 0.07 | 1.7559 | 0.35 | 1.5914 | 0.32 | 2.2735 | 0.46 | 1.2959 | 0.26 |
| 1225 | 440. | 0.6728 | 0.15 | 0.3371 | 0.08 | 1.6548 | 0.38 | 1.5289 | 0.35 | 2.2355 | 0.51 | 1.0700 | 0.24 |
| 1226 | 514. | 0.6327 | 0.12 | 0.2997 | 0.06 | 1.7194 | 0.33 | 1.5668 | 0.30 | 1.7349 | 0.34 | 0.9698 | 0.19 |
| 1229 | 408. | 0.6796 | 0.17 | 0.3348 | 0.08 | 1.8306 | 0.45 | 1.6824 | 0.41 | 1.3942 | 0.34 | 0.8422 | 0.21 |
| 1232 | 377. | 0.6882 | 0.18 | 0.3264 | 0.09 | 1.9365 | 0.51 | 1.8148 | 0.48 | 1.8359 | 0.49 | 1.0507 | 0.28 |
| 1233 | 585. | 0.5594 | 0.10 | 0.2432 | 0.04 | 1.7079 | 0.29 | 1.5194 | 0.26 | 2.3104 | 0.39 | 1.3382 | 0.23 |
| 1236 | 491. | 0.6243 | 0.13 | 0.2962 | 0.06 | 1.7320 | 0.35 | 1.5580 | 0.32 | 1.6820 | 0.34 | 1.0255 | 0.21 |
| 1237 | 393. | 0.6220 | 0.16 | 0.2763 | 0.07 | 1.6722 | 0.42 | 1.5690 | 0.40 | 2.0813 | 0.53 | 0.9398 | 0.24 |
| 1240 | 490. | 0.8036 | 0.16 | 0.4063 | 0.08 | 2.0756 | 0.42 | 1.9055 | 0.39 | 2.5458 | 0.52 | 1.0793 | 0.22 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

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TABLE D20 (PAGE 11): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT | | TESTIS RIGHT | | PROSTATE | | PITUITARY | | BRAIN | | LIVER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1182 | 458. | 0.6047 | 0.13 | 1.6680 | 0.36 | 0.3623 | 0.08 | 0.005 | 1.09 | 2.23 | 0.49 | 25.00 | 5.46 |
| 1184 | 547. | 0.7559 | 0.14 | 1.8710 | 0.34 | 0.7091 | 0.13 | 0.015 | 2.74 | 2.30 | 0.42 | 30.64 | 5.60 |
| 1186 | 498. | 0.6982 | 0.14 | 1.6171 | 0.32 | 0.8461 | 0.17 | 0.013 | 2.61 | 2.16 | 0.43 | 20.80 | 4.18 |
| 1188 | 474. | 0.6993 | 0.15 | 1.6425 | 0.35 | 1.0337 | 0.22 | 0.008 | 1.69 | 2.20 | 0.46 | 27.64 | 5.83 |
| 1189 | 591. | 0.7530 | 0.13 | 1.8294 | 0.31 | 1.2066 | 0.20 | 0.014 | 2.37 | 2.40 | 0.41 | 32.61 | 5.52 |
| 1192 | 500. | 0.6947 | 0.14 | 1.7973 | 0.36 | 0.8355 | 0.17 | 0.009 | 1.80 | 2.22 | 0.44 | 30.76 | 6.15 |
| 1194 | 549. | 0.7274 | 0.13 | 1.7765 | 0.32 | 1.2309 | 0.22 | 0.009 | 1.64 | 2.22 | 0.40 | 29.51 | 5.38 |
| 1195 | 510. | 0.6028 | 0.12 | 1.6682 | 0.33 | 1.0630 | 0.21 | 0.012 | 2.35 | 2.16 | 0.42 | 26.56 | 5.21 |
| 1198 | 682. | 0.7218 | 0.10 | 1.8638 | 0.27 | 0.9586 | 0.14 | 0.014 | 2.05 | 2.36 | 0.35 | 35.89 | 5.26 |
| 1203 | 488. | 0.6076 | 0.12 | 1.6140 | 0.33 | 1.2275 | 0.25 | 0.010 | 2.05 | 2.22 | 0.45 | 26.54 | 5.44 |
| 1204 | 476. | 0.7386 | 0.16 | 1.7777 | 0.37 | 1.1547 | 0.24 | 0.013 | 2.73 | 2.30 | 0.48 | 31.81 | 6.68 |
| 1207 | 499. | 0.7052 | 0.14 | 1.6577 | 0.33 | 1.3065 | 0.26 | 0.012 | 2.40 | 2.24 | 0.45 | 24.11 | 4.83 |
| 1209 | 536. | 0.6614 | 0.12 | 1.6149 | 0.30 | 1.2231 | 0.23 | 0.013 | 2.42 | 2.22 | 0.41 | 35.57 | 6.64 |
| 1211 | 472. | 0.7154 | 0.15 | 1.7180 | 0.36 | 1.0513 | 0.22 | 0.012 | 2.54 | 2.28 | 0.48 | 27.46 | 5.82 |
| 1212 | 572. | 0.7298 | 0.13 | 1.9154 | 0.33 | 1.3466 | 0.24 | 0.010 | 1.75 | 2.44 | 0.43 | 34.89 | 6.10 |
| 1215 | 518. | 0.6595 | 0.13 | 1.9394 | 0.37 | 0.9439 | 0.18 | 0.014 | 2.70 | 2.49 | 0.48 | 30.79 | 5.94 |
| 1216 | 534. | 0.6748 | 0.13 | 1.6544 | 0.31 | 1.4602 | 0.27 | 0.017 | 3.18 | 2.30 | 0.43 | 33.30 | 6.24 |
| 1217 | 515. | 0.7102b | 0.14 | 1.7837 | 0.35 | 1.3746 | 0.27 | 0.012 | 2.33 | 2.32 | 0.45 | 30.02 | 5.83 |
| 1219 | 418. | 0.6257 | 0.15 | 1.6034 | 0.38 | 0.9941 | 0.24 | 0.018 | 4.31 | 2.09 | 0.50 | 27.85 | 6.66 |
| 1221 | 427. | 0.6549 | 0.15 | 1.7229 | 0.40 | 0.9705 | 0.23 | 0.012 | 2.81 | 2.21 | 0.52 | 24.86 | 5.82 |
| 1222 | 520. | 0.7082 | 0.14 | 1.9675 | 0.38 | 1.0687 | 0.20 | 0.013 | 2.50 | 2.07 | 0.40 | 31.71 | 6.10 |
| 1224 | 497. | 0.7384 | 0.15 | 1.8250 | 0.37 | 1.0011 | 0.20 | 0.026 | 5.23 | 2.39 | 0.48 | 26.90 | 5.41 |
| 1225 | 440. | 0.6937 | 0.16 | 1.6822 | 0.38 | 1.0253 | 0.23 | 0.026 | 5.91 | 2.32 | 0.53 | 31.17 | 7.08 |
| 1226 | 514. | 0.6851 | 0.13 | 1.7896 | 0.35 | 1.1083 | 0.22 | 0.021 | 4.08 | 2.44 | 0.47 | 32.01 | 6.23 |
| 1229 | 408. | 0.7064 | 0.17 | 1.8647 | 0.46 | 0.5994 | 0.15 | 0.013 | 3.19 | 2.15 | 0.53 | 22.60 | 5.54 |
| 1232 | 377. | 0.6704 | 0.18 | 1.8883 | 0.50 | 0.9128 | 0.24 | 0.015 | 3.98 | 2.22 | 0.59 | 26.98 | 7.16 |
| 1233 | 585. | 0.6843 | 0.12 | 1.7895 | 0.30 | 1.1748 | 0.20 | 0.015 | 2.56 | 2.40 | 0.41 | 38.30 | 6.55 |
| 1236 | 491. | 0.6360 | 0.13 | 1.7348 | 0.35 | 1.1124 | 0.23 | 0.013 | 2.65 | 2.23 | 0.45 | 25.35 | 5.16 |
| 1237 | 393. | 0.6242 | 0.16 | 1.6814 | 0.43 | 0.8318 | 0.21 | 0.010 | 2.54 | 2.37 | 0.60 | 28.38 | 7.22 |
| 1240 | 490. | 0.7558 | 0.15 | 2.0720 | 0.42 | 1.2324 | 0.25 | 0.020 | 4.08 | 2.32 | 0.47 | 28.51 | 5.82 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

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TABLE D20 (PAGE 12): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | | SPLEEN | | THYMUS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1182 | 458. | 1.96 | 0.43 | 2.06 | 0.45 | 0.010 | 2.18 | 0.022 | 4.80 | 0.67 | 0.15 | 0.35 | 0.08 |
| 1184 | 547. | 2.40 | 0.44 | 2.30 | 0.42 | 0.031 | 5.67 | 0.033 | 6.03 | 0.72 | 0.13 | 0.39 | 0.07 |
| 1186 | 498. | 2.00 | 0.40 | 1.81b | 0.36 | 0.033 | 6.63 | 0.032 | 6.42 | 0.69 | 0.14 | 0.27 | 0.05 |
| 1188 | 474. | 2.25 | 0.47 | 2.21 | 0.47 | 0.031 | 6.54 | 0.016 | 3.38 | 0.78 | 0.16 | 0.56 | 0.12 |
| 1189 | 591. | 2.52 | 0.43 | 2.65 | 0.45 | 0.032 | 5.41 | 0.037 | 6.26 | 0.85 | 0.14 | 0.35 | 0.06 |
| 1192 | 500. | 2.16 | 0.43 | 2.31 | 0.46 | 0.032 | 6.40 | 0.032 | 6.40 | 0.92 | 0.18 | 0.73 | 0.15 |
| 1194 | 549. | 2.32 | 0.42 | 2.72 | 0.50 | 0.029 | 5.28 | 0.030 | 5.46 | 0.81 | 0.15 | 0.30 | 0.05 |
| 1195 | 510. | 2.25 | 0.44 | 2.27 | 0.44 | 0.025 | 4.90 | 0.028 | 5.49 | 0.76 | 0.15 | 0.37 | 0.07 |
| 1198 | 682. | 2.65 | 0.39 | 2.61 | 0.38 | 0.042 | 6.16 | 0.040 | 5.86 | 0.81 | 0.12 | 0.36 | 0.05 |
| 1203 | 488. | 2.32 | 0.48 | 2.21 | 0.45 | 0.025 | 5.12 | 0.025 | 5.12 | 0.81 | 0.16 | 0.32 | 0.06 |
| 1204 | 476. | 2.56 | 0.54 | 2.49 | 0.52 | 0.032 | 6.72 | 0.026 | 5.46 | 0.71 | 0.15 | 0.43 | 0.09 |
| 1207 | 499. | 2.37 | 0.47 | 2.19 | 0.44 | 0.025 | 5.01 | 0.022 | 4.41 | 0.65 | 0.13 | 0.27 | 0.05 |
| 1209 | 536. | 2.23 | 0.42 | 2.34 | 0.44 | 0.026 | 4.85 | 0.024 | 4.48 | 0.76 | 0.14 | 0.25 | 0.05 |
| 1211 | 472. | 2.27 | 0.48 | 2.11 | 0.45 | 0.020 | 4.24 | 0.032 | 6.78 | 0.69 | 0.15 | 0.32 | 0.07 |
| 1212 | 572. | 2.49 | 0.44 | 2.54 | 0.44 | 0.026 | 4.54 | 0.025 | 4.37 | 0.76 | 0.13 | 0.32 | 0.06 |
| 1215 | 518. | 2.51 | 0.48 | 2.56 | 0.49 | 0.030 | 5.79 | 0.029 | 5.60 | 0.84 | 0.16 | 0.32 | 0.06 |
| 1216 | 534. | 1.98 | 0.37 | 2.02 | 0.38 | 0.030 | 5.62 | 0.030 | 5.62 | 0.79 | 0.15 | 0.32 | 0.06 |
| 1217 | 515. | 2.17 | 0.42 | 2.14 | 0.42 | 0.025 | 4.85 | 0.022 | 4.27 | 0.70 | 0.14 | 0.40 | 0.08 |
| 1219 | 418. | 2.07 | 0.50 | 2.39 | 0.57 | 0.023 | 5.50 | 0.026 | 6.22 | 0.63 | 0.15 | 0.47 | 0.11 |
| 1221 | 427. | 1.94 | 0.45 | 2.09 | 0.49 | 0.025 | 5.85 | 0.026 | 6.09 | 0.79 | 0.18 | 0.55 | 0.13 |
| 1222 | 520. | 2.26 | 0.43 | 2.36 | 0.45 | 0.029 | 5.58 | 0.029 | 5.58 | 0.76 | 0.15 | 0.41 | 0.08 |
| 1224 | 497. | 2.42 | 0.49 | 2.50c | 0.50 | 0.030 | 6.04 | 0.024 | 4.83 | 0.82 | 0.16 | 0.44 | 0.09 |
| 1225 | 440. | 2.28 | 0.52 | 2.18 | 0.50 | 0.035 | 7.95 | 0.034 | 7.73 | 0.76 | 0.17 | 0.34 | 0.08 |
| 1226 | 514. | 2.58 | 0.50 | 2.60 | 0.50 | 0.029 | 5.64 | 0.026 | 5.06 | 0.92 | 0.18 | 0.45 | 0.09 |
| 1229 | 408. | 2.11 | 0.52 | 2.13 | 0.52 | 0.038 | 9.31 | 0.031 | 7.60 | 1.95d | 0.48 | 0.31 | 0.08 |
| 1232 | 377. | 2.12 | 0.56 | 2.07e | 0.55 | 0.026 | 6.90 | 0.026 | 6.90 | 0.82 | 0.22 | 0.39 | 0.10 |
| 1233 | 585. | 2.77 | 0.47 | 2.85 | 0.49 | 0.036 | 6.15 | 0.038 | 6.50 | 1.04 | 0.18 | 0.55 | 0.09 |
| 1236 | 491. | 2.48 | 0.50 | 2.44 | 0.50 | 0.028 | 5.70 | 0.024 | 4.89 | 0.88 | 0.18 | 0.36 | 0.07 |
| 1237 | 393. | 2.00 | 0.51 | 2.02 | 0.51 | 0.026 | 6.62 | 0.021 | 5.34 | 0.65 | 0.16 | 0.27 | 0.07 |
| 1240 | 490. | 2.53 | 0.52 | 2.67 | 0.54 | 0.039 | 7.96 | 0.039 | 7.96 | 0.70 | 0.14 | 0.24 | 0.05 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Rat 1186 had moderate dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.
c. Rat 1224 had slight dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.
d. Rat 1229 had tan areas on the spleen that extended into the parenchyma; value included in group averages and statistical analysis.
e. Rat 1232 had slight dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.

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TABLE D20 (PAGE 13): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % TBW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % TBW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % TBW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % TBW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % TBW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1241 | 460. | 0.6112 | 0.13 | 0.2998 | 0.06 | 1.5908 | 0.34 | 1.3979 | 0.30 | 1.8364 | 0.40 | 1.0081 | 0.22 |
| 1244 | 485. | 0.6273 | 0.13 | 0.3142 | 0.06 | 1.7212 | 0.35 | 1.5926 | 0.33 | 2.8798 | 0.59 | 1.4614 | 0.30 |
| 1245 | 502. | 0.6766 | 0.13 | 0.3187 | 0.06 | 1.7176 | 0.34 | 1.6080 | 0.32 | 2.1597 | 0.43 | 1.0569 | 0.21 |
| 1247 | 442. | 0.6881 | 0.16 | 0.3340 | 0.08 | 1.8326 | 0.41 | 1.6988 | 0.38 | 1.7738 | 0.40 | 1.0022 | 0.23 |
| 1248 | 378. | 0.6792 | 0.18 | 0.3129 | 0.08 | 1.6396 | 0.43 | 1.5464 | 0.41 | 2.5952 | 0.69 | 1.2934 | 0.34 |
| 1249 | 376. | 0.7319 | 0.19 | 0.3795 | 0.10 | 1.7786 | 0.47 | 1.6728 | 0.44 | 2.0331 | 0.54 | 1.0653 | 0.28 |
| 1252 | 409. | 0.6596 | 0.16 | 0.3158 | 0.08 | 1.4497 | 0.35 | 1.3774 | 0.34 | 1.8891 | 0.46 | 0.9906 | 0.24 |
| 1254 | 414. | 0.6469 | 0.16 | 0.3557 | 0.08 | 1.7510 | 0.42 | 1.6523 | 0.40 | 1.9214 | 0.46 | 0.8235 | 0.20 |
| 1255 | 490. | 0.6245 | 0.13 | 0.3120 | 0.06 | 1.7416 | 0.36 | 1.6095 | 0.33 | 1.6770 | 0.34 | 0.6609 | 0.13 |
| 1257 | 457. | 0.7072 | 0.15 | 0.3545 | 0.08 | 1.8200 | 0.40 | 1.7299 | 0.38 | 2.2625 | 0.50 | 1.0298 | 0.22 |
| 1259 | 426. | 0.6969 | 0.16 | 0.3539 | 0.08 | 1.7863 | 0.42 | 1.6566 | 0.39 | 2.0366 | 0.48 | 1.0283 | 0.24 |
| 1261 | 388. | 0.5900 | 0.15 | 0.2959 | 0.08 | 1.6848 | 0.43 | 1.5730 | 0.40 | 1.8242 | 0.47 | 0.8953 | 0.23 |
| 1266 | 429. | 0.6313 | 0.15 | 0.3086 | 0.07 | 1.6450 | 0.38 | 1.5233 | 0.36 | 1.9019 | 0.44 | 0.7353 | 0.17 |
| 1269 | 514. | 0.6429 | 0.12 | 0.3347 | 0.06 | 1.7958 | 0.35 | 1.6760 | 0.33 | 1.8292 | 0.36 | 0.8866 | 0.17 |
| 1271 | 510. | 0.6784 | 0.13 | 0.2913 | 0.06 | 1.9897 | 0.39 | 1.7853 | 0.35 | 1.8426 | 0.36 | 0.9089 | 0.18 |
| 1273 | 394. | 0.5963 | 0.15 | 0.2747 | 0.07 | 1.5513 | 0.39 | 1.4009 | 0.36 | 1.9182 | 0.49 | 0.9421 | 0.24 |
| 1274 | 507. | 0.6832 | 0.13 | 0.3324 | 0.06 | 1.8321 | 0.36 | 1.6903 | 0.33 | 1.6601 | 0.33 | 0.8003 | 0.16 |
| 1278 | 405. | 0.6289 | 0.16 | 0.2912 | 0.07 | 1.6986 | 0.42 | 1.6003 | 0.40 | 1.7792 | 0.44 | 0.8806 | 0.22 |
| 1281 | 472. | 0.6557 | 0.14 | 0.3389 | 0.07 | 1.5348 | 0.32 | 1.3779 | 0.29 | 1.8714 | 0.40 | 0.9200 | 0.19 |
| 1282 | 403. | 0.6104 | 0.15 | 0.2935 | 0.07 | 2.0059 | 0.50 | 1.8552 | 0.46 | 1.4607 | 0.36 | 0.7963 | 0.20 |
| 1284 | 443. | 0.6110 | 0.14 | 0.3077 | 0.07 | 1.7608 | 0.40 | 1.6309 | 0.37 | 1.6002 | 0.36 | 0.8986 | 0.20 |
| 1287 | 418. | 0.5705 | 0.14 | 0.2924 | 0.07 | 1.5426 | 0.37 | 1.4114 | 0.34 | 1.5734 | 0.38 | 0.7565 | 0.18 |
| 1288 | 407. | 0.5772 | 0.14 | 0.2718 | 0.07 | 1.4489 | 0.36 | 1.3122 | 0.32 | 2.0014 | 0.49 | 0.9903 | 0.24 |
| 1289 | 443. | 0.6419 | 0.14 | 0.3011 | 0.07 | 1.8533 | 0.42 | 1.7185 | 0.39 | 1.8222 | 0.41 | 1.0444 | 0.24 |
| 1290 | 447. | 0.6438 | 0.14 | 0.2949 | 0.06 | 1.8455 | 0.41 | 1.6862 | 0.38 | 1.6617 | 0.37 | 0.8188 | 0.18 |
| 1291 | 399. | 0.7084 | 0.18 | 0.3777 | 0.09 | 1.8660 | 0.47 | 1.5842 | 0.40 | 1.8949 | 0.47 | 0.9639 | 0.24 |
| 1294 | 450. | 0.7602 | 0.17 | 0.3415 | 0.08 | 2.0868 | 0.46 | 1.8566 | 0.41 | 1.3983 | 0.31 | 0.7453 | 0.16 |
| 1298 | 385. | 0.5738 | 0.15 | 0.2755 | 0.07 | 1.4615 | 0.38 | 1.3341 | 0.35 | 1.8111 | 0.47 | 0.8992 | 0.23 |
| 1300 | 438. | 0.7065 | 0.16 | 0.3154 | 0.07 | 1.6906 | 0.38 | 1.5934 | 0.36 | 1.9824 | 0.45 | 1.2279 | 0.28 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D20 (PAGE 14): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | EPIDIDYMIS RIGHT | | TESTIS RIGHT | | PROSTATE | | PITUITARY | | BRAIN | | LIVER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1241 | 460. | 0.6533 | 0.14 | 1.6469 | 0.36 | 0.7133 | 0.16 | 0.009 | 1.96 | 2.21 | 0.48 | 33.90 | 7.37 |
| 1244 | 485. | 0.6699 | 0.14 | 1.6944 | 0.35 | 0.4297 | 0.09 | 0.012 | 2.47 | 2.14 | 0.44 | 37.00 | 7.63 |
| 1245 | 502. | 0.6880 | 0.14 | 1.7335 | 0.34 | 0.6958 | 0.14 | 0.013 | 2.59 | 2.14 | 0.43 | 35.80 | 7.13 |
| 1247 | 442. | 0.6936 | 0.16 | 1.7629 | 0.40 | 1.0837 | 0.24 | 0.011 | 2.49 | 2.19 | 0.50 | 30.46 | 6.89 |
| 1248 | 378. | 0.7177 | 0.19 | 1.7090 | 0.45 | 0.8798 | 0.23 | 0.010 | 2.64 | 2.02 | 0.53 | 23.36 | 6.18 |
| 1249 | 376. | 0.7145 | 0.19 | 1.7860 | 0.48 | 0.8470 | 0.22 | 0.011 | 2.92 | 2.08 | 0.55 | 22.66 | 6.03 |
| 1252 | 409. | 0.5818 | 0.14 | 1.3457 | 0.33 | 0.7562 | 0.18 | 0.009 | 2.20 | 2.16 | 0.53 | 29.14 | 7.12 |
| 1254 | 414. | 0.6693 | 0.16 | 1.8852 | 0.46 | 0.9728 | 0.23 | 0.009 | 2.17 | 2.00 | 0.48 | 24.07 | 5.81 |
| 1255 | 490. | 0.6530 | 0.13 | 1.7597 | 0.36 | 1.0766 | 0.22 | 0.010 | 2.04 | 2.29 | 0.47 | 32.45 | 6.62 |
| 1257 | 457. | 0.7350 | 0.16 | 1.8935 | 0.41 | 1.0167 | 0.22 | 0.013 | 2.84 | 2.11 | 0.46 | 29.80 | 6.52 |
| 1259 | 426. | 0.7351 | 0.17 | 1.8626 | 0.44 | 1.1325 | 0.26 | 0.009 | 2.11 | 1.95 | 0.46 | 25.93 | 6.09 |
| 1261 | 388. | 0.6319 | 0.16 | 1.7525 | 0.45 | 0.5891 | 0.15 | 0.011 | 2.84 | 2.17 | 0.56 | 24.08 | 6.21 |
| 1266 | 429. | 0.6521 | 0.15 | 1.5782 | 0.37 | 1.1156 | 0.26 | 0.014 | 3.26 | 2.09 | 0.49 | 29.42 | 6.86 |
| 1269 | 514. | 0.6597 | 0.13 | 1.7311 | 0.34 | 1.0011 | 0.19 | 0.005 | 0.97 | 2.14 | 0.42 | 32.70 | 6.36 |
| 1271 | 510. | 0.6398 | 0.12 | 1.9298 | 0.38 | 1.0235 | 0.20 | 0.019 | 3.72 | 2.70 | 0.53 | 30.75 | 6.03 |
| 1273 | 394. | 0.6096 | 0.15 | 1.5443 | 0.39 | 1.0554 | 0.27 | 0.021b | 5.33b | 2.16 | 0.55 | 27.46 | 6.97 |
| 1274 | 507. | 0.6309 | 0.12 | 1.8951 | 0.37 | 1.0326 | 0.20 | 0.015 | 2.96 | 2.27 | 0.45 | 34.70 | 6.84 |
| 1278 | 405. | 0.6590 | 0.16 | 1.7218 | 0.42 | 0.7614 | 0.19 | 0.024 | 5.92 | 2.04 | 0.50 | 26.59 | 6.56 |
| 1281 | 472. | 0.6883 | 0.14 | 1.5678 | 0.33 | 0.7429 | 0.16 | 0.032 | 6.78 | 2.08 | 0.44 | 30.95 | 6.56 |
| 1282 | 403. | 0.6620 | 0.16 | 2.0764 | 0.52 | 0.7483 | 0.18 | 0.010 | 2.48 | 2.20 | 0.54 | 29.72 | 7.37 |
| 1284 | 443. | 0.6740 | 0.15 | 1.8308 | 0.41 | 1.0285 | 0.23 | 0.012 | 2.71 | 2.25 | 0.51 | 30.21 | 6.82 |
| 1287 | 418. | 0.5821 | 0.14 | 1.5509 | 0.37 | 0.8656 | 0.21 | 0.010 | 2.39 | 2.09 | 0.50 | 26.56 | 6.35 |
| 1288 | 407. | 0.5847 | 0.14 | 1.3930 | 0.34 | 0.8578 | 0.21 | 0.026 | 6.39 | 2.22 | 0.54 | 25.71 | 6.32 |
| 1289 | 443. | 0.7166 | 0.16 | 2.0066 | 0.45 | 0.7964 | 0.18 | 0.010 | 2.26 | 2.34 | 0.53 | 33.07 | 7.46 |
| 1290 | 447. | 0.6780 | 0.15 | 1.8514 | 0.41 | 0.7592 | 0.17 | 0.014 | 3.13 | 2.27 | 0.51 | 34.68 | 7.76 |
| 1291 | 399. | 0.7411 | 0.18 | 1.8543 | 0.46 | 0.7997 | 0.20 | 0.008 | 2.00 | 2.35 | 0.59 | 26.73 | 6.70 |
| 1294 | 450. | 0.7335 | 0.16 | 1.9582 | 0.44 | 0.9946 | 0.22 | 0.026 | 5.78 | 2.37 | 0.53 | 33.81 | 7.51 |
| 1298 | 385. | 0.5936 | 0.15 | 1.4529 | 0.38 | 0.6132 | 0.16 | 0.011 | 2.86 | 2.06 | 0.54 | 27.51 | 7.14 |
| 1300 | 438. | 0.7606 | 0.17 | 1.7792 | 0.41 | 0.9123 | 0.21 | 0.010 | 2.28 | 2.18 | 0.50 | 33.29 | 7.60 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

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TABLE D20 (PAGE 15): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | | SPLEEN | | THYMUS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW |
| 1241 | 460. | 2.30 | 0.50 | 2.28 | 0.50 | 0.024 | 5.22 | 0.031 | 6.74 | 0.65 | 0.14 | 0.28 | 0.06 |
| 1244 | 485. | 2.60 | 0.54 | 2.41 | 0.50 | 0.035 | 7.22 | 0.030 | 6.18 | 0.64 | 0.13 | 0.18 | 0.04 |
| 1245 | 502. | 2.60 | 0.52 | 2.40 | 0.48 | 0.033 | 6.57 | 0.024 | 4.78 | 0.85 | 0.17 | 0.73 | 0.14 |
| 1247 | 442. | 1.85 | 0.42 | 1.67 | 0.38 | 0.023 | 5.20 | 0.016 | 3.62 | 0.95 | 0.21 | 0.20 | 0.04 |
| 1248 | 378. | 1.90 | 0.50 | 1.94 | 0.51 | 0.031 | 8.20 | 0.029 | 7.67 | 0.60 | 0.16 | 0.53 | 0.14 |
| 1249 | 376. | 1.94 | 0.52 | 1.94 | 0.52 | 0.028 | 7.45 | 0.024 | 6.38 | 0.63 | 0.17 | 0.28 | 0.07 |
| 1252 | 409. | 1.78 | 0.44 | 1.78 | 0.44 | 0.027 | 6.60 | 0.024 | 5.87 | 0.73 | 0.18 | 0.34 | 0.08 |
| 1254 | 414. | 1.91 | 0.46 | 1.88 | 0.45 | 0.025 | 6.04 | 0.022 | 5.31 | 0.67 | 0.16 | 0.24 | 0.06 |
| 1255 | 490. | 2.13 | 0.43 | 2.23 | 0.46 | 0.023 | 4.69 | 0.019 | 3.88 | 0.67 | 0.14 | 0.31 | 0.06 |
| 1257 | 457. | 1.89 | 0.41 | 1.87 | 0.41 | 0.028 | 6.13 | 0.030 | 6.56 | 0.62 | 0.14 | 0.26 | 0.06 |
| 1259 | 426. | 1.90 | 0.45 | 1.79 | 0.42 | 0.023 | 5.40 | 0.016 | 3.76 | 0.69 | 0.16 | 0.22 | 0.05 |
| 1261 | 388. | 1.75 | 0.45 | 1.93 | 0.50 | 0.021 | 5.41 | 0.025 | 6.44 | 0.59 | 0.15 | 0.21 | 0.05 |
| 1266 | 429. | 1.90 | 0.44 | 2.00 | 0.47 | 0.030 | 6.99 | 0.028 | 6.53 | 0.78 | 0.18 | 0.30 | 0.07 |
| 1269 | 514. | 1.93 | 0.38 | 2.12 | 0.41 | 0.022 | 4.28 | 0.023 | 4.47 | 0.89 | 0.17 | 0.55 | 0.11 |
| 1271 | 510. | 2.21 | 0.43 | 2.50 | 0.49 | 0.038 | 7.45 | 0.037 | 7.25 | 0.69 | 0.14 | 0.51 | 0.10 |
| 1273 | 394. | 1.90 | 0.48 | 1.86 | 0.47 | 0.033 | 8.38 | 0.029 | 7.36 | 0.75 | 0.19 | 0.47 | 0.12 |
| 1274 | 507. | 2.29 | 0.45 | 2.35 | 0.46 | 0.020 | 3.94 | 0.022 | 4.34 | 0.84 | 0.16 | 0.68 | 0.13 |
| 1278 | 405. | 1.74 | 0.43 | 1.81 | 0.45 | 0.031 | 7.65 | 0.026 | 6.42 | 0.84 | 0.21 | 0.34 | 0.08 |
| 1281 | 472. | 2.10 | 0.44 | 2.04 | 0.43 | 0.030 | 6.36 | 0.030 | 6.36 | 0.91 | 0.19 | 0.52 | 0.11 |
| 1282 | 403. | 1.92 | 0.48 | 2.01 | 0.50 | 0.036 | 8.93 | 0.038 | 9.43 | 0.78 | 0.19 | 0.73 | 0.18 |
| 1284 | 443. | 2.16 | 0.49 | 1.99 | 0.45 | 0.034 | 7.67 | 0.032 | 7.22 | 0.65 | 0.15 | 0.46 | 0.10 |
| 1287 | 418. | 2.16 | 0.52 | 2.06 | 0.49 | 0.020 | 4.78 | 0.020 | 4.78 | 0.67 | 0.16 | 0.40 | 0.10 |
| 1288 | 407. | 1.96 | 0.48 | 2.12 | 0.52 | 0.028 | 6.88 | 0.022 | 5.40 | 0.84 | 0.21 | 0.31 | 0.08 |
| 1289 | 443. | 2.02 | 0.46 | 1.97 | 0.44 | 0.019 | 4.29 | 0.015 | 3.39 | 0.71 | 0.16 | 0.39 | 0.09 |
| 1290 | 447. | 1.99 | 0.44 | 2.08 | 0.46 | 0.026 | 5.82 | 0.030 | 6.71 | 0.81 | 0.18 | 0.43 | 0.10 |
| 1291 | 399. | 2.09 | 0.52 | 2.05 | 0.51 | 0.023 | 5.76 | 0.024 | 6.02 | 0.72 | 0.18 | 0.27 | 0.07 |
| 1294 | 450. | 2.07 | 0.46 | 2.26b | 0.50 | 0.039 | 8.67 | 0.035 | 7.78 | 1.14 | 0.25 | 0.44 | 0.10 |
| 1298 | 385. | 1.85 | 0.48 | 1.86 | 0.48 | 0.022 | 5.71 | 0.019 | 4.94 | 0.52 | 0.14 | 0.30 | 0.08 |
| 1300 | 438. | 2.06 | 0.47 | 1.99 | 0.45 | 0.026 | 5.94 | 0.024 | 5.48 | 0.78 | 0.18 | 0.39 | 0.09 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 1294 had slight dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.

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TABLE D21 (PAGE 1): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I — 0 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1002 | 2.27 | 0.7752 | 34.15 | 0.3991 | 17.58 | 1.9221 | 84.67 | 1.7786 | 78.35 | 1.6467 | 72.54 | 0.8308 | 36.60 |
| 1003 | 2.40 | 0.7726 | 32.19 | 0.3611 | 15.04 | 1.8125 | 75.52 | 1.6880 | 70.33 | 2.1281 | 88.67 | 1.0361 | 43.17 |
| 1005 | 2.36 | 0.6687 | 28.33 | 0.3080 | 13.05 | 1.6994 | 72.01 | 1.5948 | 67.58 | 1.7303 | 73.32 | 0.8830 | 37.42 |
| 1007 | 2.23 | 0.6686 | 29.98 | 0.3350 | 15.02 | 1.5619 | 70.04 | 1.4691 | 65.88 | 1.8008 | 80.75 | 0.9282 | 41.62 |
| 1011 | 2.22 | 0.6963 | 31.36 | 0.3387 | 15.26 | 1.5902 | 71.63 | 1.4829 | 66.80 | 1.7689 | 79.68 | 0.9602 | 43.25 |
| 1012 | 2.32 | 0.7115 | 30.67 | 0.3373 | 14.54 | 1.7682 | 76.22 | 1.6627 | 71.67 | 2.1506 | 92.70 | 1.0488 | 45.21 |
| 1013 | 2.29 | 0.6641 | 29.00 | 0.3204 | 13.99 | 1.6088 | 70.25 | 1.5081 | 65.86 | 2.2159 | 96.76 | 1.2484 | 54.52 |
| 1014 | 2.51 | 0.7869 | 31.35 | 0.3583 | 14.27 | 1.8831 | 75.02 | 1.7555 | 69.94 | 2.5406 | 101.22 | 1.3229 | 52.70 |
| 1017 | 2.30 | 0.6555 | 28.50 | 0.2932 | 12.75 | 1.7762 | 77.23 | 1.6737 | 72.77 | 1.6431 | 71.44 | 0.9578 | 41.64 |
| 1021 | 2.27 | 0.6987 | 30.78 | 0.3482 | 15.34 | 1.8218 | 80.26 | 1.6868 | 74.31 | 1.8339 | 80.79 | 1.0077 | 44.39 |
| 1023 | 2.25 | 0.6580 | 29.24 | 0.3339 | 14.84 | 1.7024 | 75.66 | 1.5794 | 70.20 | 1.6675 | 74.11 | 0.7430 | 33.02 |
| 1026 | 2.52 | 0.7822 | 31.04 | 0.4020 | 15.95 | 1.9518 | 77.45 | 1.8349 | 72.81 | 2.2373 | 88.78 | 1.0835 | 43.00 |
| 1028 | 2.17 | 0.6933 | 31.95 | 0.3383 | 15.59 | 1.7226 | 79.38 | 1.6188 | 74.60 | 1.5930 | 73.41 | 0.9180 | 42.30 |
| 1031 | 2.45 | 0.6753 | 27.56 | 0.3248 | 13.26 | 1.7995 | 73.45 | 1.6663 | 68.01 | 2.2558 | 92.07 | 1.1674 | 47.65 |
| 1034 | 2.25 | 0.6971 | 30.98 | 0.3283 | 14.59 | 1.5867 | 70.52 | 1.4943 | 66.41 | 2.0640 | 91.73 | 0.8644 | 38.42 |
| 1035 | 2.25 | 0.5600 | 24.89 | 0.2757 | 12.25 | 1.4438 | 64.17 | 1.2926 | 57.45 | 1.6995 | 75.53 | 0.9306 | 41.36 |
| 1040 | 2.39 | 0.6153 | 25.74 | 0.2846 | 11.91 | 1.5830 | 66.23 | 1.5238 | 63.76 | 2.0948 | 87.65 | 0.9268 | 38.78 |
| 1041 | 2.25 | 0.5846 | 25.98 | 0.2599 | 11.55 | 1.6181 | 71.92 | 1.4797 | 65.76 | 1.7416 | 77.40 | 1.0356 | 46.03 |
| 1043 | 2.40 | 0.6476 | 26.98 | 0.3170 | 13.21 | 1.8685 | 77.85 | 1.6406 | 68.36 | 1.4429 | 60.12 | 0.8137 | 33.90 |
| 1045 | 2.28 | 0.6937 | 30.42 | 0.3335 | 14.63 | 2.0197 | 88.58 | 1.8917 | 82.97 | 2.1573 | 94.62 | 1.1610 | 50.92 |
| 1047 | 2.42 | 0.7059 | 29.17 | 0.3676 | 15.19 | 1.7596 | 72.71 | 1.6111 | 66.57 | 1.3668 | 56.48 | 0.7839 | 32.39 |
| 1048 | 2.40 | 0.6579 | 27.41 | 0.3233 | 13.47 | 1.5749 | 65.62 | 1.4321 | 59.67 | 2.0222 | 84.26 | 0.9460 | 39.42 |
| 1050 | 2.20 | 0.6975 | 31.70 | 0.3498 | 15.90 | 1.6161 | 73.46 | 1.4572 | 66.24 | 1.7612 | 80.05 | 0.7748 | 35.22 |
| 1051 | 2.62 | 0.7675 | 29.29 | 0.3806 | 14.53 | 2.0003 | 76.35 | 1.8134 | 69.21 | 2.3132 | 88.29 | 1.1160 | 42.60 |
| 1052 | 2.47 | 0.7354 | 29.77 | 0.3854 | 15.60 | 1.9346 | 78.32 | 1.7771 | 71.95 | 2.0816 | 84.28 | 1.1932 | 48.31 |
| 1054 | 2.46 | 0.7518 | 30.56 | 0.3819 | 15.52 | 1.9560 | 79.51 | 1.8014 | 73.23 | 2.5943 | 105.46 | 1.4246 | 57.91 |
| 1055 | 2.43 | 0.6775 | 27.88 | 0.3243 | 13.34 | 1.7734 | 72.98 | 1.6231 | 66.79 | 2.0127 | 82.83 | 1.1275 | 46.40 |
| 1058 | 1.94 | 0.5881 | 30.31 | 0.2814 | 14.50 | 1.6935 | 87.29 | 1.5125 | 77.96 | 1.8827 | 97.05 | 0.9591 | 49.44 |
| 1059 | 2.44 | 0.6360 | 26.06 | 0.2937 | 12.04 | 1.7162 | 70.34 | 1.6036 | 65.72 | 1.1345 | 46.50 | 0.7241 | 29.68 |
| 1060 | 2.40 | 0.6379 | 26.58 | 0.3128 | 13.03 | 1.6027 | 66.78 | 1.4347 | 59.78 | 1.3529 | 56.37 | 0.7172 | 29.88 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 2): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT | | TESTIS RIGHT | | PROSTATE | | PITUITARY | | LIVER | | KIDNEY LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1002 | 2.27 | 0.7585 | 33.41 | 1.8845 | 83.02 | 0.4671 | 20.58 | 0.015 | 0.66 | 21.20 | 933.92 | 2.17 | 95.59 |
| 1003 | 2.40 | 0.7227 | 30.11 | 1.7920 | 74.67 | 0.6059 | 25.24 | 0.014 | 0.58 | 25.00 | 1041.67 | 2.38 | 99.17 |
| 1005 | 2.36 | 0.6810 | 28.86 | 1.6608 | 70.37 | 0.5167 | 21.89 | 0.011 | 0.47 | 19.70 | 834.74 | 2.13 | 90.25 |
| 1007 | 2.23 | 0.6742 | 30.23 | 1.5845 | 71.05 | 0.5157 | 23.12 | 0.014 | 0.63 | 21.20 | 950.67 | 2.10 | 94.17 |
| 1011 | 2.22 | 0.6834 | 30.78 | 1.5867 | 71.47 | 0.7725 | 34.80 | 0.011 | 0.50 | 24.75 | 1114.86 | 2.19 | 98.65 |
| 1012 | 2.32 | 0.6799 | 29.31 | 1.7336 | 74.72 | 1.3440 | 57.93 | 0.014 | 0.60 | 24.99 | 1077.16 | 2.22 | 95.69 |
| 1013 | 2.29 | 0.6817 | 29.77 | 1.6417 | 71.69 | 1.0484 | 45.78 | 0.014 | 0.61 | 21.79 | 951.53 | 2.35 | 102.62 |
| 1014 | 2.51 | 0.8172 | 32.56 | 1.7921 | 71.40 | 1.0938 | 43.58 | 0.012 | 0.48 | 22.01 | 876.89 | 2.08 | 82.87 |
| 1017 | 2.30 | 0.6814 | 29.63 | 1.7002 | 73.92 | 1.3176 | 57.29 | 0.013 | 0.56 | 17.05 | 741.30 | 2.05 | 89.13 |
| 1021 | 2.27 | 0.7343 | 32.35 | 1.8175 | 80.07 | 0.9022 | 39.74 | 0.013 | 0.57 | 25.08 | 1104.84 | 2.41 | 106.17 |
| 1023 | 2.25 | 0.6593 | 29.30 | 1.6437 | 73.05 | 1.2225 | 54.33 | 0.015 | 0.67 | 23.69 | 1052.89 | 2.21 | 98.22 |
| 1026 | 2.52 | 0.7373 | 29.26 | 1.8810 | 74.64 | 1.6240 | 64.44 | 0.015 | 0.60 | 22.31 | 885.32 | 2.41 | 95.63 |
| 1028 | 2.17 | 0.6915 | 31.87 | 1.6696 | 76.94 | 1.2618 | 58.15 | 0.015 | 0.69 | 18.86 | 869.12 | 1.85 | 85.25 |
| 1031 | 2.45 | 0.6714 | 27.40 | 1.6776 | 68.47 | 1.2276 | 50.11 | 0.016 | 0.65 | 21.65 | 883.67 | 2.31 | 94.28 |
| 1034 | 2.25 | 0.6982 | 31.03 | 1.5835 | 70.38 | 1.2740 | 56.62 | 0.013 | 0.58 | 17.02 | 756.44 | 1.73 | 76.89 |
| 1035 | 2.25 | 0.5628 | 25.01 | 1.5086 | 67.05 | 0.8117 | 36.08 | 0.009 | 0.40 | 16.86 | 749.33 | 1.98 | 88.00 |
| 1040 | 2.39 | 0.6359 | 26.61 | 1.6333 | 68.34 | 1.1217 | 46.93 | 0.011 | 0.46 | 20.38 | 852.72 | 2.22 | 92.89 |
| 1041 | 2.25 | 0.6364 | 28.28 | 1.5862 | 70.50 | 1.1027 | 49.01 | 0.011 | 0.49 | 23.82 | 1058.67 | 2.35 | 104.44 |
| 1043 | 2.40 | 0.6825 | 28.44 | 1.8901 | 78.75 | 0.8592 | 35.80 | 0.019 | 0.79 | 21.30 | 887.50 | 2.07 | 86.25 |
| 1045 | 2.28 | 0.7169 | 31.44 | 1.9229 | 84.34 | 1.0457 | 45.86 | 0.015 | 0.66 | 18.32 | 803.51 | 1.99 | 87.28 |
| 1047 | 2.42 | 0.7403 | 30.59 | 1.7809 | 73.59 | 1.4155 | 58.49 | 0.014 | 0.58 | 29.20 | 1206.61 | 2.37 | 97.93 |
| 1048 | 2.40 | 0.6381 | 26.59 | 1.4826 | 61.78 | 1.0329 | 43.04 | 0.023 | 0.96 | 27.26 | 1135.83 | 2.58 | 107.50 |
| 1050 | 2.20 | 0.7014 | 31.88 | 1.5870 | 72.14 | 1.0311 | 46.87 | 0.010 | 0.45 | 21.29 | 967.73 | 1.96 | 89.09 |
| 1051 | 2.62 | 0.8552 | 32.64 | 1.9756 | 75.40 | 1.3585 | 51.85 | 0.020 | 0.76 | 25.09 | 957.63 | 2.59 | 98.85 |
| 1052 | 2.47 | 0.8026 | 32.49 | 1.9853 | 80.38 | 1.1700 | 47.37 | 0.013 | 0.53 | 24.34 | 985.42 | 2.51 | 101.62 |
| 1054 | 2.46 | 0.7438 | 30.24 | 1.9381 | 78.78 | 1.1579 | 47.07 | 0.020 | 0.81 | 20.05 | 815.04 | 2.22 | 90.24 |
| 1055 | 2.43 | 0.7348 | 30.24 | 1.8211 | 74.94 | 1.1323 | 46.60 | 0.021 | 0.86 | 21.35 | 878.60 | 2.31 | 95.06 |
| 1058 | 1.94 | 0.6267 | 32.30 | 1.6947 | 87.36 | 1.1133 | 57.39 | 0.018 | 0.93 | 20.17 | 1039.69 | 2.21 | 113.92 |
| 1059 | 2.44 | 0.6254 | 25.63 | 1.7833 | 73.09 | 0.7495 | 30.72 | 0.018 | 0.74 | 16.10 | 659.84 | 2.19 | 89.75 |
| 1060 | 2.40 | 0.6724 | 28.02 | 1.7323 | 72.18 | 0.8267 | 34.44 | 0.012 | 0.50 | 17.81 | 742.08 | 2.30 | 95.83 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 3): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1002 | 2.27 | 2.28 | 100.44 | 0.031 | 1.36 | 0.028 | 1.23 | 0.96 | 42.29 | 0.28 | 12.33 |
| 1003 | 2.40 | 2.20 | 91.67 | 0.029 | 1.21 | 0.023 | 0.96 | 1.02 | 42.50 | 0.42 | 17.50 |
| 1005 | 2.36 | 2.08 | 88.14 | 0.037 | 1.57 | 0.038 | 1.61 | 1.00 | 42.37 | 0.62 | 26.27 |
| 1007 | 2.23 | 2.00 | 89.69 | 0.029 | 1.30 | 0.031 | 1.39 | 1.03 | 46.19 | 0.59 | 26.46 |
| 1011 | 2.22 | 2.18 | 98.20 | 0.038 | 1.71 | 0.032 | 1.44 | 0.95 | 42.79 | 0.71 | 31.98 |
| 1012 | 2.32 | 2.20 | 94.83 | 0.025 | 1.08 | 0.022 | 0.95 | 0.90 | 38.79 | 0.73 | 31.46 |
| 1013 | 2.29 | 2.28 | 99.56 | 0.027 | 1.18 | 0.027 | 1.18 | 1.02 | 44.54 | 0.52 | 22.71 |
| 1014 | 2.51 | 2.16 | 86.06 | 0.026 | 1.04 | 0.023 | 0.92 | 0.95 | 37.85 | 0.32 | 12.75 |
| 1017 | 2.30 | 2.04 | 88.70 | 0.029 | 1.26 | 0.030 | 1.30 | 0.72 | 31.30 | 0.43 | 18.70 |
| 1021 | 2.27 | 2.56 | 112.78 | 0.026 | 1.14 | 0.036 | 1.58 | 0.98 | 43.17 | 0.44 | 19.38 |
| 1023 | 2.25 | 2.24 | 99.56 | 0.035 | 1.56 | 0.030 | 1.33 | 0.93 | 41.33 | 0.50 | 22.22 |
| 1026 | 2.52 | 2.39 | 94.84 | 0.034 | 1.35 | 0.036 | 1.43 | 0.97 | 38.49 | 0.46 | 18.25 |
| 1028 | 2.17 | 1.93 | 88.94 | 0.036 | 1.66 | 0.037 | 1.70 | 0.98 | 45.16 | 0.41 | 18.89 |
| 1031 | 2.45 | 2.20 | 89.80 | 0.030 | 1.22 | 0.019 | 0.78 | 0.93 | 37.96 | 0.44 | 17.96 |
| 1034 | 2.25 | 1.71 | 76.00 | 0.028 | 1.24 | 0.011a | 0.49a | 0.73 | 32.44 | 0.37 | 16.44 |
| 1035 | 2.25 | 1.95 | 86.67 | 0.028 | 1.24 | 0.022 | 0.98 | 0.69 | 30.67 | 0.43 | 19.11 |
| 1040 | 2.39 | 2.23 | 93.30 | 0.022 | 0.92 | 0.018 | 0.75 | 1.34 | 56.07 | 0.45 | 18.83 |
| 1041 | 2.25 | 2.54 | 112.89 | 0.024 | 1.07 | 0.024 | 1.07 | 0.94 | 41.78 | 0.72 | 32.00 |
| 1043 | 2.40 | 2.22 | 92.50 | 0.023 | 0.96 | 0.023 | 0.96 | 0.88 | 36.67 | 0.59 | 24.58 |
| 1045 | 2.28 | 2.09 | 91.67 | 0.041 | 1.80 | 0.039 | 1.71 | 0.79 | 34.65 | 0.61 | 26.75 |
| 1047 | 2.42 | 2.56 | 105.78 | 0.038 | 1.57 | 0.036 | 1.49 | 1.13 | 46.69 | 0.36 | 14.88 |
| 1048 | 2.40 | 2.63 | 109.58 | 0.039 | 1.62 | 0.036 | 1.50 | 1.05 | 43.75 | 0.56 | 23.33 |
| 1050 | 2.20 | 2.13 | 96.82 | 0.035 | 1.59 | 0.029 | 1.32 | 0.83 | 37.73 | 0.59 | 26.82 |
| 1051 | 2.62 | 2.54 | 96.95 | 0.041 | 1.56 | 0.041 | 1.56 | 1.13 | 43.13 | 0.52 | 19.85 |
| 1052 | 2.47 | 2.47 | 100.00 | 0.033 | 1.34 | 0.036 | 1.46 | 1.03 | 41.70 | 0.70 | 28.34 |
| 1054 | 2.46 | 2.26 | 91.87 | 0.028 | 1.14 | 0.027 | 1.10 | 0.99 | 40.24 | 0.54 | 21.95 |
| 1055 | 2.43 | 2.42 | 99.59 | 0.037 | 1.52 | 0.037 | 1.52 | 0.83 | 34.16 | 0.55 | 22.63 |
| 1058 | 1.94 | 2.28 | 117.52 | 0.030 | 1.55 | 0.030 | 1.55 | 0.86 | 44.33 | 0.58 | 29.90 |
| 1059 | 2.44 | 2.13 | 87.30 | 0.039 | 1.60 | 0.036 | 1.48 | 1.04 | 42.62 | 0.33 | 13.52 |
| 1060 | 2.40 | 2.27 | 94.58 | 0.030 | 1.25 | 0.023 | 0.96 | 0.73 | 30.42 | 0.47 | 19.58 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 4): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1061 | 2.16 | 0.7660 | 35.46 | 0.3553 | 16.45 | 1.7863 | 82.70 | 1.6295 | 75.44 | 1.9084 | 88.35 | 1.0157 | 47.02 |
| 1063 | 2.26 | 0.7170 | 31.72 | 0.3300 | 14.60 | 1.8632 | 82.44 | 1.7520 | 77.52 | 2.2839 | 101.06 | 1.1167 | 49.41 |
| 1066 | 2.10 | 0.6338 | 30.18 | 0.2762 | 13.15 | 1.7790 | 84.71 | 1.6559 | 78.85 | 2.2858 | 108.85 | 1.3449 | 64.04 |
| 1067 | 1.98 | 0.6124 | 30.93 | 0.2886 | 14.58 | 1.5556 | 78.56 | 1.4453 | 72.99 | 1.7391 | 87.83 | 0.9152 | 46.22 |
| 1069 | 2.04 | 0.6531 | 32.01 | 0.3027 | 14.84 | 1.7625 | 86.40 | 1.6520 | 80.98 | 2.0289 | 99.46 | 1.0798 | 52.93 |
| 1071 | 2.37 | 0.6507 | 27.46 | 0.3269 | 13.79 | 1.6107 | 67.96 | 1.5115 | 63.78 | 2.2645 | 95.55 | 1.1328 | 47.80 |
| 1073 | 2.26 | 0.7059 | 31.23 | 0.2707 | 11.98 | 1.9881 | 87.97 | 1.8542 | 82.04 | 2.1775 | 96.35 | 1.1732 | 51.91 |
| 1077 | 2.08 | 0.7864 | 37.81 | 0.4014 | 19.30 | 1.8023 | 86.65 | 1.6513 | 79.39 | 2.2437 | 107.87 | 1.0133 | 48.72 |
| 1078 | 2.25 | 0.7598 | 33.77 | 0.3979 | 17.68 | 1.7878 | 79.46 | 1.6647 | 73.99 | 1.9818 | 88.08 | 0.9239 | 41.06 |
| 1081 | 2.35 | 0.7080 | 30.13 | 0.3712 | 15.80 | 1.7687 | 75.26 | 1.6044 | 68.27 | 1.9950 | 84.89 | 0.9701 | 41.28 |
| 1082 | 2.17 | 0.3393a | 15.64 | 0.1461a | 6.73 | 1.0590a | 48.80 | 0.4551a | 20.97 | 2.0247 | 93.30 | 0.9927 | 45.75 |
| 1083 | 2.30 | 0.6435 | 27.98 | 0.3460 | 15.04 | 1.4745 | 64.11 | 1.3716 | 59.63 | 2.3555 | 102.41 | 0.9679 | 42.08 |
| 1086 | 2.07 | 0.5518 | 26.66 | 0.2467 | 11.92 | 1.6224 | 78.38 | 1.5186 | 73.36 | 1.7858 | 86.27 | 0.9166 | 44.28 |
| 1088 | 2.33 | 0.7257 | 31.14 | 0.3524 | 15.12 | 1.6645 | 71.44 | 1.5413 | 66.15 | 2.0530 | 88.11 | 0.9295 | 39.89 |
| 1090 | 2.24 | 0.6785 | 30.29 | 0.3080 | 13.75 | 1.6320 | 72.86 | 1.5236 | 68.02 | 1.8496 | 82.57 | 0.8012 | 35.77 |
| 1091 | 2.45 | 0.6134 | 25.04 | 0.3012 | 12.29 | 1.7090 | 69.76 | 1.3518 | 55.18 | 2.4316 | 99.25 | 1.3115 | 53.53 |
| 1094 | 2.28 | 0.6428 | 28.19 | 0.3252 | 14.26 | 1.6702 | 73.25 | 1.4565 | 63.88 | 2.2994 | 100.85 | 1.0829 | 47.50 |
| 1096 | 2.47 | 0.6912 | 27.98 | 0.3288 | 13.31 | 1.6920 | 68.50 | 1.5653 | 63.37 | 2.0056 | 81.20 | 1.0369 | 41.98 |
| 1098 | 2.38 | 0.7062 | 29.67 | 0.3866 | 16.24 | 1.9487 | 81.88 | 1.7580 | 73.86 | 2.4765 | 104.05 | 1.3095 | 55.02 |
| 1100 | 2.33 | 0.6344 | 27.23 | 0.3308 | 14.20 | 1.6819 | 72.18 | 1.5379 | 66.00 | 1.9311 | 82.88 | 0.9989 | 42.87 |
| 1103 | 2.35 | 0.6689 | 28.46 | 0.3369 | 14.34 | 1.7418 | 74.12 | 1.5524 | 66.06 | 1.7219 | 73.27 | 0.7884 | 33.55 |
| 1106 | 2.13 | 0.5997 | 28.15 | 0.2759 | 12.95 | 1.5584 | 73.16 | 1.4213 | 66.73 | 1.7814 | 83.63 | 1.0277 | 48.25 |
| 1107 | 2.15 | 0.6601 | 30.70 | 0.3072 | 14.29 | 1.6067 | 74.73 | 1.4424 | 67.09 | 1.5051 | 70.00 | 0.8120 | 37.77 |
| 1110 | 2.33 | 0.6219 | 26.69 | 0.3101 | 13.31 | 1.6555 | 71.05 | 1.5194 | 65.21 | 1.8402 | 78.98 | 0.8915 | 38.26 |
| 1112 | 2.64 | 0.6981 | 26.44 | 0.3442 | 13.04 | 1.8105 | 68.58 | 1.6908 | 64.04 | 2.1860 | 82.80 | 1.2293 | 46.56 |
| 1114 | 2.55 | 0.6757 | 26.50 | 0.3169 | 12.43 | 1.9848 | 77.84 | 1.8202 | 71.38 | 2.3440 | 91.92 | 1.2241 | 48.00 |
| 1116 | 2.36 | 0.6704 | 28.41 | 0.2919 | 12.37 | 1.5620 | 66.19 | 1.4146 | 59.94 | 2.0547 | 87.06 | 1.0185 | 43.16 |
| 1118 | 2.37 | 0.6492 | 27.39 | 0.2958 | 12.48 | 1.6885 | 71.24 | 1.5853 | 66.89 | 2.1617 | 91.21 | 1.0063 | 42.46 |
| 1120 | 2.43 | 0.7509 | 30.90 | 0.3424 | 14.09 | 2.0030 | 82.43 | 1.8717 | 77.02 | 2.3378 | 96.20 | 1.0701 | 44.04 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 1082 had a small, left epididymis and cauda epididymis, small, flaccid left testis, and a fluid filled left testis minus tunica albuginea; values included in group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 5): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP II — 1 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1061 | 2.16 | 0.7284 | 33.72 | 1.8528 | 85.78 | 0.4761 | 22.04 | 0.011 | 0.51 | 20.77 | 961.57 | 2.06 | 95.37 |
| 1063 | 2.26 | 0.7113 | 31.47 | 1.8505 | 81.88 | 0.8821 | 39.03 | 0.012 | 0.53 | 26.60 | 1176.99 | 2.50 | 110.62 |
| 1066 | 2.10 | 0.6396 | 30.46 | 1.5745 | 74.98 | 0.2716a | 12.93 | 0.011 | 0.52 | 20.80 | 990.48 | 2.03 | 96.67 |
| 1067 | 1.98 | 0.6431 | 32.48 | 1.5154 | 76.54 | 0.5982 | 30.21 | 0.012 | 0.61 | 20.97 | 1059.09 | 1.95 | 98.48 |
| 1069 | 2.04 | 0.6310 | 30.93 | 1.6782 | 82.26 | 0.8284 | 40.61 | 0.011 | 0.54 | 21.61 | 1059.31 | 2.10 | 102.94 |
| 1071 | 2.37 | 0.6846 | 28.89 | 1.5542 | 65.58 | 1.3268 | 55.98 | 0.012 | 0.51 | 26.35 | 1111.81 | 2.43 | 102.53 |
| 1073 | 2.26 | 0.7456 | 32.99 | 1.9825 | 87.72 | 1.3308 | 58.88 | 0.016 | 0.71 | 27.94 | 1236.28 | 2.43 | 107.52 |
| 1077 | 2.08 | 0.7614 | 36.60 | 1.8037 | 86.72 | 0.8947 | 43.01 | 0.011 | 0.53 | 25.28 | 1215.38 | 2.39 | 114.90 |
| 1078 | 2.25 | 0.7545 | 33.53 | 1.7230 | 76.58 | 1.3800 | 61.33 | 0.014 | 0.62 | 30.05 | 1335.56 | 2.67 | 118.67 |
| 1081 | 2.35 | 0.7025 | 29.89 | 1.7244 | 73.38 | 1.3717 | 58.37 | 0.014 | 0.60 | 22.81 | 970.64 | 2.24 | 95.32 |
| 1082 | 2.17 | 0.6989 | 32.21 | 1.7261 | 79.54 | 1.2924 | 59.56 | 0.016 | 0.74 | 24.34 | 1121.66 | 2.16 | 99.54 |
| 1083 | 2.30 | 0.6288 | 27.34 | 1.4717 | 63.99 | 1.3446 | 58.46 | 0.014 | 0.61 | 23.15 | 1006.52 | 2.27 | 98.70 |
| 1086 | 2.07 | 0.6170 | 29.81 | 1.6474 | 79.58 | 0.9942 | 48.03 | 0.012 | 0.58 | 15.51 | 749.28 | 1.79 | 86.47 |
| 1088 | 2.33 | 0.6845 | 29.38 | 1.6176 | 69.42 | 1.5251 | 65.45 | 0.014 | 0.60 | 29.13 | 1250.21 | 2.22 | 95.28 |
| 1090 | 2.24 | 0.7019 | 31.33 | 1.6796 | 74.98 | 1.2761 | 56.97 | 0.017 | 0.76 | 21.48 | 958.93 | 2.27 | 101.34 |
| 1091 | 2.45 | 0.6599 | 26.93 | 1.7494 | 71.40 | 1.1454 | 46.75 | 0.014 | 0.57 | 27.07 | 1104.90 | 2.68 | 109.39 |
| 1094 | 2.28 | 0.6911 | 30.31 | 1.6621 | 72.90 | 1.0867 | 47.66 | 0.025 | 1.10 | 29.60 | 1298.24 | 2.39 | 104.82 |
| 1096 | 2.47 | 0.7465 | 30.22 | 1.7774 | 71.96 | 1.0373 | 42.00 | 0.016 | 0.65 | 32.95 | 1334.01 | 2.39 | 96.76 |
| 1098 | 2.38 | 0.7631 | 32.06 | 1.9639 | 82.52 | 1.1216 | 47.13 | 0.015 | 0.63 | 30.37 | 1276.05 | 2.35 | 98.74 |
| 1100 | 2.33 | 0.6229 | 26.73 | 1.6532 | 70.95 | 1.1903 | 51.08 | 0.024 | 1.03 | 22.79 | 978.11 | 2.59 | 111.16 |
| 1103 | 2.35 | 0.6993b | 29.76 | 1.7282 | 73.54 | 0.8336 | 35.47 | 0.013 | 0.55 | 27.76 | 1181.28 | 2.54 | 108.08 |
| 1106 | 2.13 | 0.6575 | 30.87 | 1.6263 | 76.35 | 1.2108 | 56.84 | 0.013 | 0.61 | 22.68 | 1064.79 | 2.19 | 102.82 |
| 1107 | 2.15 | 0.6578 | 30.60 | 1.6277 | 75.71 | 0.9999 | 46.51 | 0.033 | 1.53 | 19.46 | 905.12 | 2.05 | 95.35 |
| 1110 | 2.33 | 0.6330 | 27.17 | 1.6504 | 70.83 | 0.9081 | 38.97 | 0.015 | 0.64 | 20.50 | 879.83 | 2.21 | 94.85 |
| 1112 | 2.64 | 0.6748 | 25.56 | 1.8656 | 70.67 | 1.4610 | 55.34 | 0.018 | 0.68 | 28.97 | 1097.35 | 2.90 | 109.85 |
| 1114 | 2.55 | 0.7494 | 29.39 | 1.9312 | 75.73 | 1.1564 | 45.35 | 0.023 | 0.90 | 27.29 | 1070.20 | 2.80 | 109.80 |
| 1116 | 2.36 | 0.6639 | 28.13 | 1.5988 | 67.74 | 1.2054 | 51.08 | 0.026 | 1.10 | 21.37 | 905.51 | 2.33 | 98.73 |
| 1118 | 2.37 | 0.6786 | 28.63 | 1.7496 | 73.82 | 1.0908 | 46.02 | 0.023 | 0.97 | 22.51 | 949.79 | 2.74 | 115.61 |
| 1120 | 2.43 | 0.6911 | 28.44 | 1.9723 | 81.16 | 1.1517 | 47.40 | 0.028 | 1.15 | 22.49 | 925.51 | 2.46 | 101.23 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 1066 had a small prostate; values included in group averages and statistical analyses.

b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 6): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1061 | 2.16 | 1.90 | 87.96 | 0.016 | 0.74 | 0.023 | 1.06 | 0.76 | 35.18 | 0.60 | 27.78 |
| 1063 | 2.26 | 2.46 | 108.85 | 0.041 | 1.81 | 0.034 | 1.50 | 0.84 | 37.17 | 0.61 | 26.99 |
| 1066 | 2.10 | 2.10 | 100.00 | 0.028 | 1.33 | 0.022 | 1.05 | 0.64 | 30.48 | 0.64 | 30.48 |
| 1067 | 1.98 | 2.07 | 104.54 | 0.024 | 1.21 | 0.027 | 1.36 | 0.65 | 32.83 | 0.46 | 23.23 |
| 1069 | 2.04 | 1.98 | 97.06 | 0.020 | 0.98 | 0.009 | 0.44 | 0.72 | 35.29 | 0.39 | 19.12 |
| 1071 | 2.37 | 2.46 | 103.80 | 0.018 | 0.76 | 0.024 | 1.01 | 0.84 | 35.44 | 0.42 | 17.72 |
| 1073 | 2.26 | 2.50 | 110.62 | 0.037 | 1.64 | 0.037 | 1.64 | 0.68 | 30.09 | 0.22 | 9.73 |
| 1077 | 2.08 | 2.18 | 104.81 | 0.044 | 2.12 | 0.041 | 1.97 | 0.58 | 27.88 | 0.57 | 27.40 |
| 1078 | 2.25 | 2.69 | 119.56 | 0.036 | 1.60 | 0.032 | 1.42 | 0.92 | 40.89 | 0.42 | 18.67 |
| 1081 | 2.35 | 2.41 | 102.55 | 0.028 | 1.19 | 0.028 | 1.19 | 0.83 | 35.32 | 0.37 | 15.74 |
| 1082 | 2.17 | 2.15 | 99.08 | 0.035 | 1.61 | 0.031 | 1.43 | 0.86 | 39.63 | 0.46 | 21.20 |
| 1083 | 2.30 | 2.23 | 96.96 | 0.039 | 1.70 | 0.030 | 1.30 | 0.75 | 32.61 | 0.37 | 16.09 |
| 1086 | 2.07 | 1.92 | 92.75 | 0.028 | 1.35 | 0.026 | 1.26 | 0.74 | 35.75 | 0.29 | 14.01 |
| 1088 | 2.33 | 2.02 | 86.70 | 0.032 | 1.37 | 0.027 | 1.16 | 0.85 | 36.48 | 0.40 | 17.17 |
| 1090 | 2.24 | 2.27 | 101.34 | 0.025 | 1.12 | 0.024 | 1.07 | 0.75 | 33.48 | 0.31 | 13.84 |
| 1091 | 2.45 | 2.56 | 104.49 | 0.029 | 1.18 | 0.030 | 1.22 | 0.89 | 36.33 | 0.55 | 22.45 |
| 1094 | 2.28 | 2.38 | 104.38 | 0.048 | 2.10 | 0.041 | 1.80 | 1.00 | 43.86 | 0.53 | 23.24 |
| 1096 | 2.47 | 2.45 | 99.19 | 0.024 | 0.97 | 0.024 | 0.97 | 0.95 | 38.46 | 0.69 | 27.94 |
| 1098 | 2.38 | 2.44 | 102.52 | 0.030 | 1.26 | 0.028 | 1.18 | 0.80 | 33.61 | 0.61 | 25.63 |
| 1100 | 2.33 | 2.37 | 101.72 | 0.038 | 1.63 | 0.033 | 1.42 | 0.82 | 35.19 | 0.55 | 23.60 |
| 1103 | 2.35 | 2.59 | 110.21 | 0.040 | 1.70 | 0.036 | 1.53 | 0.92 | 39.15 | 0.65 | 27.66 |
| 1106 | 2.13 | 2.21 | 103.76 | 0.024 | 1.13 | 0.023 | 1.08 | 0.75 | 35.21 | 0.58 | 27.23 |
| 1107 | 2.15 | 2.05 | 95.35 | 0.034 | 1.58 | 0.035 | 1.63 | 0.60 | 27.91 | 0.36 | 16.74 |
| 1110 | 2.33 | 2.16 | 92.70 | 0.020 | 0.86 | 0.019 | 0.82 | 0.73 | 31.33 | 0.44 | 18.88 |
| 1112 | 2.64 | 3.01 | 114.02 | 0.039 | 1.48 | 0.043 | 1.63 | 1.24 | 46.97 | 0.35 | 13.26 |
| 1114 | 2.55 | 2.84 | 111.37 | 0.042 | 1.65 | 0.037 | 1.45 | 1.03 | 40.39 | 0.48 | 18.82 |
| 1116 | 2.36 | 2.37 | 100.42 | 0.041 | 1.74 | 0.027 | 1.14 | 0.90 | 38.14 | 0.32 | 13.56 |
| 1118 | 2.37 | 2.73 | 115.19 | 0.032 | 1.35 | 0.029 | 1.22 | 1.06 | 44.72 | 0.41 | 17.30 |
| 1120 | 2.43 | 2.53 | 104.12 | 0.030 | 1.23 | 0.026 | 1.07 | 1.00 | 41.15 | 0.36 | 14.81 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 7): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1122 | 2.40 | 0.7208 | 30.03 | 0.3470 | 14.46 | 1.6159 | 67.33 | 1.5221 | 63.42 | 2.0470 | 85.29 | 1.0874 | 45.31 |
| 1123 | 2.40 | 0.6070 | 25.29 | 0.2968 | 12.37 | 1.8182 | 75.76 | 1.6922 | 70.51 | 2.3013 | 95.89 | 1.2447 | 51.86 |
| 1127 | 2.20 | 0.6614 | 30.06 | 0.3302 | 15.01 | 1.6347 | 74.30 | 1.5124 | 68.74 | 1.7196 | 78.16 | 0.9666 | 43.94 |
| 1129 | 2.29 | 0.7407 | 32.34 | 0.3502 | 15.29 | 1.9335 | 84.43 | 1.8129 | 79.16 | 2.1930 | 95.76 | 1.1095 | 48.45 |
| 1131 | 2.23 | 0.6952 | 31.17 | 0.3581 | 16.06 | 1.7682 | 79.29 | 1.6707 | 74.92 | 2.3326 | 104.60 | 1.0857 | 48.69 |
| 1132 | 2.22 | 0.6725 | 30.29 | 0.3378 | 15.22 | 1.7645 | 79.48 | 1.6362 | 73.70 | 2.3904 | 107.68 | 1.2665 | 57.05 |
| 1134 | 2.40 | 0.7615 | 31.73 | 0.3358 | 13.99 | 1.8988 | 79.12 | 1.7685 | 73.69 | 2.1383 | 89.10 | 1.0924 | 45.52 |
| 1135 | 2.17 | 0.6679 | 30.78 | 0.3218 | 14.83 | 1.7237 | 79.43 | 1.6026 | 73.85 | 1.8500 | 85.25 | 0.9966 | 45.93 |
| 1136 | 2.16 | 0.6855 | 31.74 | 0.3406 | 15.77 | 1.9009 | 88.00 | 1.6834 | 77.94 | 1.3217 | 61.19 | 0.7638 | 35.36 |
| 1139 | 2.29 | 0.6190 | 27.03 | 0.3274 | 14.30 | 1.6472 | 71.93 | 1.5631 | 68.26 | 1.7038 | 74.40 | 0.9308 | 40.65 |
| 1141 | 2.17 | 0.6450 | 29.72 | 0.3546 | 16.34 | 1.5627 | 72.01 | 1.4612 | 67.34 | 1.7528 | 80.77 | 0.8441 | 38.90 |
| 1142 | 2.16 | 0.6121 | 28.34 | 0.2953 | 13.67 | 1.6597 | 76.84 | 1.5318 | 70.92 | 2.0896 | 96.74 | 0.9784 | 45.30 |
| 1145 | 2.04 | 0.6915 | 33.90 | 0.3255 | 15.96 | 1.8607 | 91.21 | 1.7494 | 85.75 | 1.8492 | 90.65 | 1.0012 | 49.08 |
| 1147 | 2.33 | 0.7098 | 30.46 | 0.3588 | 15.40 | 1.6976 | 72.86 | 1.6060 | 68.93 | 1.7211 | 73.87 | 0.9009 | 38.66 |
| 1149 | 2.36 | 0.8130 | 34.45 | 0.4132 | 17.51 | 2.0462 | 86.70 | 1.9344 | 81.97 | 2.3386 | 99.09 | 1.1584 | 49.08 |
| 1151 | 2.41 | 0.6764 | 28.07 | 0.3179 | 13.19 | 1.8091 | 75.07 | 1.5925 | 66.08 | 2.2078 | 91.61 | 0.9860 | 40.91 |
| 1153 | 2.35 | 0.6843 | 29.12 | 0.3349 | 14.25 | 3.0171a | 128.39 | 2.7687a | 117.82 | 1.9461 | 82.81 | 1.0849 | 46.16 |
| 1154 | 2.23 | 0.5970 | 26.77 | 0.2924 | 13.11 | 1.7007 | 76.26 | 1.4274 | 64.01 | 1.8889 | 84.70 | 0.8750 | 39.24 |
| 1158 | 2.28 | 0.6503 | 28.52 | 0.3024 | 13.26 | 1.7179 | 75.35 | 1.5439 | 67.71 | 2.1813 | 95.67 | 1.1530 | 50.57 |
| 1159 | 2.24 | 0.7223 | 32.24 | 0.3698 | 16.51 | 1.8480 | 82.50 | 1.6935 | 75.60 | 2.3263 | 103.85 | 1.1211 | 50.05 |
| 1162 | 2.31 | 0.6669 | 28.87 | 0.3101 | 13.42 | 1.7050 | 73.81 | 1.5581 | 67.45 | 2.0033 | 86.72 | 0.8661 | 37.49 |
| 1164 | 2.41 | 0.7675 | 31.85 | 0.3613 | 14.99 | 1.9198 | 79.66 | 1.7783 | 73.79 | 1.9163 | 79.51 | 0.8735 | 36.24 |
| 1167 | 2.23 | 0.6801 | 30.50 | 0.3252 | 14.58 | 1.7101 | 76.69 | 1.5089 | 67.66 | 2.0326 | 91.15 | 1.0820 | 48.52 |
| 1168 | 2.51 | 0.6367 | 25.37 | 0.2903 | 11.56 | 1.8227 | 72.62 | 1.6190 | 64.50 | 1.5592 | 62.12 | 0.9914 | 39.50 |
| 1171 | 2.31 | 0.5776 | 25.00 | 0.2903 | 12.57 | 1.5240 | 65.97 | 1.4063 | 60.88 | 1.8020 | 78.01 | 1.0915 | 47.25 |
| 1173 | 2.41 | 0.6524 | 27.07 | 0.3273 | 13.58 | 1.5741 | 65.32 | 1.4256 | 59.15 | 2.1183 | 87.90 | 1.0216 | 42.39 |
| 1175 | 2.53 | 0.6272 | 24.79 | 0.2745 | 10.85 | 1.7498 | 69.16 | 1.6409 | 64.86 | 1.7132 | 67.72 | 1.0295 | 40.69 |
| 1176 | 2.33 | 0.5684 | 24.39 | 0.2863 | 12.29 | 1.9718 | 84.63 | 1.8165 | 77.96 | 1.4040 | 60.26 | 0.8061 | 34.60 |
| 1177 | 2.43 | 0.7391 | 30.42 | 0.3494 | 14.38 | 2.2666 | 93.28 | 2.1025 | 86.52 | 2.0790 | 85.56 | 1.1398 | 46.90 |
| 1180 | 2.47 | 0.6971 | 28.22 | 0.3350 | 13.56 | 1.9639 | 79.51 | 1.8501 | 74.90 | 2.1032 | 85.15 | 1.0329 | 41.82 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 1153 had a large, left testis and testis minus tunica albuginea; values included in group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 8): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP III 3 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1122 | 2.40 | 0.6838 | 28.49 | 1.6035 | 66.81 | 0.4770 | 19.88 | 0.010 | 0.42 | 28.00 | 1166.67 | 2.33 | 97.08 |
| 1123 | 2.40 | 0.6106 | 25.44 | 1.7572 | 73.22 | 0.3938 | 16.41 | 0.013 | 0.54 | 27.20 | 1133.33 | 2.40 | 100.00 |
| 1127 | 2.20 | 0.6629 | 30.13 | 1.6197 | 73.62 | 0.4890 | 22.23 | 0.012 | 0.54 | 28.00 | 1272.73 | 2.10 | 95.45 |
| 1129 | 2.29 | 0.7111 | 31.05 | 1.8049 | 78.82 | 0.9503 | 41.50 | 0.016 | 0.70 | 37.20 | 1624.45 | 2.58 | 112.66 |
| 1131 | 2.23 | 0.6877 | 30.84 | 1.7444 | 78.22 | 0.9830 | 44.08 | 0.010 | 0.45 | 31.29 | 1403.14 | 2.81 | 126.01 |
| 1132 | 2.22 | 0.6987 | 31.47 | 1.7356 | 78.18 | 1.1426 | 51.47 | 0.016 | 0.72 | 24.46 | 1101.80 | 2.43 | 109.46 |
| 1134 | 2.40 | 0.7236 | 30.15 | 1.9533 | 81.39 | 1.0100 | 42.08 | 0.011 | 0.46 | 31.25 | 1302.08 | 2.52 | 105.00 |
| 1135 | 2.17 | 0.6703 | 30.89 | 1.6461 | 75.86 | 1.1130 | 51.29 | 0.014 | 0.64 | 26.42 | 1217.51 | 2.46 | 113.36 |
| 1136 | 2.16 | 0.6601 | 30.56 | 1.8638 | 86.29 | 0.8226 | 38.08 | 0.011 | 0.51 | 24.58 | 1137.96 | 2.49 | 115.28 |
| 1139 | 2.29 | 0.6262 | 27.34 | 1.7137 | 74.83 | 1.0147 | 44.31 | 0.011 | 0.48 | 26.94 | 1176.42 | 2.50 | 109.17 |
| 1141 | 2.17 | 0.6701a | 30.88 | 1.5828 | 72.94 | 1.2215 | 56.29 | 0.012 | 0.55 | 24.41 | 1124.88 | 2.23 | 102.76 |
| 1142 | 2.16 | 0.6442 | 29.82 | 1.6204 | 75.02 | 0.9640 | 44.63 | 0.013 | 0.60 | 24.96 | 1155.56 | 2.19 | 101.39 |
| 1145 | 2.04 | 0.6614 | 32.42 | 1.8248 | 89.45 | 1.0366 | 50.81 | 0.014 | 0.69 | 24.17 | 1184.80 | 2.20 | 107.84 |
| 1147 | 2.33 | 0.6789 | 29.14 | 1.7369 | 74.54 | 1.0363 | 44.48 | 0.010 | 0.43 | 26.73 | 1147.21 | 2.24 | 96.14 |
| 1149 | 2.36 | 0.7538 | 31.94 | 2.0918 | 88.64 | 1.3772 | 58.36 | 0.015 | 0.64 | 28.43 | 1204.66 | 2.74 | 116.10 |
| 1151 | 2.41 | 0.6490 | 26.93 | 1.7336 | 71.93 | 1.1726 | 48.66 | 0.017 | 0.70 | 31.06 | 1288.80 | 2.58 | 107.05 |
| 1153 | 2.35 | 0.7007 | 29.82 | 1.7874 | 76.06 | 1.2844 | 54.66 | 0.013 | 0.55 | 15.00 | 638.30 | 2.46 | 104.68 |
| 1154 | 2.23 | 0.6741 | 30.23 | 1.7880 | 80.18 | 1.1087 | 49.72 | 0.023 | 1.03 | 31.44 | 1409.86 | 2.72 | 121.97 |
| 1158 | 2.28 | 0.6996 | 30.68 | 1.7801 | 78.07 | 0.8279 | 36.31 | 0.019 | 0.83 | 33.93 | 1488.16 | 2.46 | 107.89 |
| 1159 | 2.24 | 0.7245 | 32.34 | 1.8539 | 82.76 | 1.1479 | 51.24 | 0.025 | 1.12 | 28.29 | 1262.95 | 2.54 | 113.39 |
| 1162 | 2.31 | 0.6761a | 29.27 | 1.6565 | 71.71 | 1.2450 | 53.90 | 0.014 | 0.61 | 31.33 | 1356.28 | 2.59 | 112.12 |
| 1164 | 2.41 | 0.7592 | 31.50 | 1.9644 | 81.51 | 1.2929 | 53.65 | 0.013 | 0.54 | 30.89 | 1281.74 | 2.67 | 110.79 |
| 1167 | 2.23 | 0.7044 | 31.59 | 1.7935 | 80.43 | 1.1156 | 50.03 | 0.018 | 0.81 | 33.05 | 1482.06 | 2.56 | 114.80 |
| 1168 | 2.51 | 0.6950 | 27.69 | 1.9170 | 76.37 | 0.9715 | 38.70 | 0.021 | 0.84 | 31.60 | 1258.96 | 2.45 | 97.61 |
| 1171 | 2.31 | 0.5841 | 25.28 | 1.5517 | 67.17 | 1.0645 | 46.08 | 0.020 | 0.86 | 25.18 | 1090.04 | 2.09 | 90.48 |
| 1173 | 2.41 | 0.6720 | 27.88 | 1.6114 | 66.86 | 1.1758 | 48.79 | 0.028 | 1.16 | 27.19 | 1128.22 | 2.28 | 94.60 |
| 1175 | 2.53 | 0.6517 | 25.76 | 1.7506 | 69.19 | 1.1055 | 43.70 | 0.012 | 0.47 | 26.00 | 1027.67 | 2.21 | 87.35 |
| 1176 | 2.33 | 0.6153 | 26.41 | 1.9358 | 83.08 | 0.9663 | 41.47 | 0.032 | 1.37 | 25.54 | 1096.14 | 2.56 | 109.87 |
| 1177 | 2.43 | 0.7824 | 32.20 | 2.2229 | 91.48 | 1.2319 | 50.70 | 0.015 | 0.62 | 34.48 | 1418.93 | 2.76 | 113.58 |
| 1180 | 2.47 | 0.7608 | 30.80 | 1.9351 | 78.34 | 1.0538 | 42.66 | 0.025 | 1.01 | 28.35 | 1147.77 | 2.54 | 102.83 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 9): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1122 | 2.40 | 2.31 | 96.25 | 0.024 | 1.00 | 0.020 | 0.83 | 1.02 | 42.50 | 0.49 | 20.42 |
| 1123 | 2.40 | 2.40 | 100.00 | 0.030 | 1.25 | 0.032 | 1.33 | 0.80 | 33.33 | 0.29 | 12.08 |
| 1127 | 2.20 | 2.11 | 95.91 | 0.024 | 1.09 | 0.026 | 1.18 | 0.75 | 34.09 | 0.28 | 12.73 |
| 1129 | 2.29 | 2.78 | 121.40 | 0.036 | 1.57 | 0.032 | 1.40 | 0.83 | 36.24 | 0.72 | 31.44 |
| 1131 | 2.23 | 2.67 | 119.73 | 0.024 | 1.08 | 0.028 | 1.26 | 0.95 | 42.60 | 0.59 | 26.46 |
| 1132 | 2.22 | 2.49 | 112.16 | 0.039 | 1.76 | 0.036 | 1.62 | 0.59 | 26.58 | 0.37 | 16.67 |
| 1134 | 2.40 | 2.63 | 109.58 | 0.037 | 1.54 | 0.038 | 1.58 | 0.95 | 39.58 | 0.66 | 27.50 |
| 1135 | 2.17 | 2.35 | 108.29 | 0.026 | 1.20 | 0.027 | 1.24 | 0.75 | 34.56 | 0.33 | 15.21 |
| 1136 | 2.16 | 2.41 | 111.57 | 0.039 | 1.80 | 0.032 | 1.48 | 0.72 | 33.33 | 0.46 | 21.30 |
| 1139 | 2.29 | 2.48 | 108.30 | 0.037 | 1.62 | 0.032 | 1.40 | 0.56 | 24.45 | 0.24 | 10.48 |
| 1141 | 2.17 | 2.24 | 103.22 | 0.030 | 1.38 | 0.030 | 1.38 | 0.94 | 43.32 | 0.34 | 15.67 |
| 1142 | 2.16 | 2.16 | 100.00 | 0.029 | 1.34 | 0.026 | 1.20 | 0.65 | 30.09 | 0.48 | 22.22 |
| 1145 | 2.04 | 2.02 | 99.02 | 0.028 | 1.37 | 0.019 | 0.93 | 0.69 | 33.82 | 0.18 | 8.82 |
| 1147 | 2.33 | 2.17 | 93.13 | 0.032 | 1.37 | 0.027 | 1.16 | 0.86 | 36.91 | 0.27 | 11.59 |
| 1149 | 2.36 | 2.50 | 105.93 | 0.034 | 1.44 | 0.029 | 1.23 | 0.77 | 32.63 | 0.30 | 12.71 |
| 1151 | 2.41 | 2.78 | 115.35 | 0.027 | 1.12 | 0.018 | 0.75 | 0.91 | 37.76 | 0.73 | 30.29 |
| 1153 | 2.35 | 2.55 | 108.51 | 0.024 | 1.02 | 0.021 | 0.89 | 0.93 | 39.57 | 0.55 | 23.40 |
| 1154 | 2.23 | 2.71 | 121.52 | 0.030 | 1.34 | 0.028 | 1.26 | 1.01 | 45.29 | 0.67 | 30.04 |
| 1158 | 2.28 | 2.57 | 112.72 | 0.029 | 1.27 | 0.024 | 1.05 | 0.86 | 37.72 | 0.49 | 21.49 |
| 1159 | 2.24 | 2.92 | 130.36 | 0.042 | 1.88 | 0.034 | 1.52 | 1.08 | 48.21 | 0.44 | 19.64 |
| 1162 | 2.31 | 2.71 | 117.32 | 0.027 | 1.17 | 0.027 | 1.17 | 0.78 | 33.77 | 0.35 | 15.15 |
| 1164 | 2.41 | 2.62 | 108.71 | 0.035 | 1.45 | 0.030 | 1.24 | 0.80 | 33.20 | 0.44 | 18.26 |
| 1167 | 2.23 | 2.56 | 114.80 | 0.029 | 1.30 | 0.031 | 1.39 | 1.17 | 52.47 | 0.73 | 32.74 |
| 1168 | 2.51 | 2.43 | 96.81 | 0.029 | 1.16 | 0.029 | 1.16 | 0.94 | 37.45 | 0.40 | 15.94 |
| 1171 | 2.31 | 1.95 | 84.42 | 0.031 | 1.34 | 0.032 | 1.38 | 0.77 | 33.33 | 0.40 | 17.32 |
| 1173 | 2.41 | 2.37 | 98.34 | 0.028 | 1.16 | 0.033 | 1.37 | 0.73 | 30.29 | 0.51 | 21.16 |
| 1175 | 2.53 | 2.45 | 96.84 | 0.029 | 1.15 | 0.022 | 0.87 | 0.94 | 37.15 | 0.35 | 13.83 |
| 1176 | 2.33 | 2.69 | 115.45 | 0.036 | 1.54 | 0.029 | 1.24 | 0.76 | 32.62 | 0.44 | 18.88 |
| 1177 | 2.43 | 2.79 | 114.81 | 0.034 | 1.40 | 0.030 | 1.23 | 0.89 | 36.62 | 0.36 | 14.81 |
| 1180 | 2.47 | 2.51 | 101.62 | 0.036 | 1.46 | 0.037 | 1.50 | 1.05 | 42.51 | 0.40 | 16.19 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 10): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT ABS. WT. | EPIDIDYMIS LEFT REL. % BRW | CAUDA EPIDIDYMIS LEFT ABS. WT. | CAUDA EPIDIDYMIS LEFT REL. % BRW | TESTIS LEFT ABS. WT. | TESTIS LEFT REL. % BRW | L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT. | L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW | SEMINAL VESICLES WITH FLUID ABS. WT. | SEMINAL VESICLES WITH FLUID REL. % BRW | SEMINAL VESICLES WITHOUT FLUID ABS. WT. | SEMINAL VESICLES WITHOUT FLUID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1182 | 2.23 | 0.5873 | 26.34 | 0.2692 | 12.07 | 1.6842 | 75.52 | 1.5580 | 69.86 | 2.1825 | 97.87 | 1.0993 | 49.30 |
| 1184 | 2.30 | 0.7364 | 32.02 | 0.3508 | 15.25 | 1.9148 | 83.25 | 1.7769 | 77.26 | 2.8035 | 121.89 | 1.3573 | 59.01 |
| 1186 | 2.16 | 0.6724 | 31.13 | 0.3462 | 16.03 | 1.5726 | 72.80 | 1.4546 | 67.34 | 1.6253 | 75.24 | 0.7547 | 34.94 |
| 1188 | 2.20 | 0.6851 | 31.14 | 0.3285 | 14.93 | 1.7130 | 77.86 | 1.5980 | 72.64 | 1.8294 | 83.15 | 1.0218 | 46.44 |
| 1189 | 2.40 | 0.7693 | 32.05 | 0.4167 | 17.36 | 1.8304 | 76.27 | 1.5499 | 64.58 | 2.0923 | 87.18 | 0.9952 | 41.47 |
| 1192 | 2.22 | 0.6944 | 31.28 | 0.3106 | 13.99 | 1.7946 | 80.84 | 1.5264 | 68.76 | 2.2638 | 101.97 | 1.3117 | 59.08 |
| 1194 | 2.22 | 0.7103 | 32.00 | 0.3404 | 15.33 | 1.7653 | 79.52 | 1.6519 | 74.41 | 2.2778 | 102.60 | 1.1574 | 52.14 |
| 1195 | 2.16 | 0.6484 | 30.02 | 0.3165 | 14.65 | 1.6721 | 77.41 | 1.5753 | 72.93 | 1.8174 | 84.14 | 0.9382 | 43.44 |
| 1198 | 2.36 | 0.7207 | 30.54 | 0.3662 | 15.52 | 1.9297 | 81.77 | 1.7940 | 76.02 | 2.2576 | 95.66 | 1.1818 | 50.08 |
| 1203 | 2.22 | 0.5748 | 25.89 | 0.2920 | 13.15 | 1.5606 | 70.30 | 1.4555 | 65.56 | 2.0476 | 92.23 | 0.9225 | 41.55 |
| 1204 | 2.30 | 0.7346 | 31.94 | 0.3820 | 16.61 | 1.7581 | 76.44 | 1.6592 | 72.14 | 2.1362 | 92.88 | 1.0182 | 44.27 |
| 1207 | 2.24 | 0.7013 | 31.31 | 0.3523 | 15.73 | 1.7531 | 78.26 | 1.6424 | 73.32 | 2.0554 | 91.76 | 1.0792 | 48.18 |
| 1209 | 2.22 | 0.6512 | 29.33 | 0.3423 | 15.42 | 1.7328 | 78.05 | 1.5972 | 71.94 | 2.0879 | 94.05 | 1.0570 | 47.61 |
| 1211 | 2.28 | 0.6746 | 29.59 | 0.3294 | 14.45 | 1.7361 | 76.14 | 1.6305 | 71.51 | 2.2509 | 98.72 | 1.2076 | 52.96 |
| 1212 | 2.44 | 0.7302 | 29.93 | 0.3596 | 14.74 | 1.9206 | 78.71 | 1.8200 | 74.59 | 2.5826 | 105.84 | 1.1246 | 46.09 |
| 1215 | 2.49 | 0.6593 | 26.48 | 0.3135 | 12.59 | 1.8977 | 76.21 | 1.7249 | 69.27 | 1.8533 | 74.43 | 1.0642 | 42.74 |
| 1216 | 2.30 | 0.6832 | 29.70 | 0.3559 | 15.47 | 1.7087 | 74.29 | 1.4910 | 64.83 | 2.0138 | 87.56 | 1.0114 | 43.97 |
| 1217 | 2.32 | 0.6969 | 30.04 | 0.3209 | 13.83 | 1.8089 | 77.97 | 1.6898 | 72.84 | 1.7647 | 76.06 | 0.9204 | 39.67 |
| 1219 | 2.09 | 0.5811 | 27.80 | 0.2735 | 13.09 | 1.6144 | 77.24 | 1.4823 | 70.92 | 2.0568 | 98.41 | 1.1085 | 53.04 |
| 1221 | 2.21 | 0.5729 | 25.92 | 0.2820 | 12.76 | 1.7055 | 77.17 | 1.5490 | 70.09 | 1.5690 | 71.00 | 0.9655 | 43.69 |
| 1222 | 2.07 | 0.6980 | 33.72 | 0.3349 | 16.18 | 2.0374 | 98.42 | 1.8144 | 87.65 | 2.1344 | 103.11 | 1.1960 | 57.78 |
| 1224 | 2.39 | 0.6952 | 29.09 | 0.3592 | 15.03 | 1.7559 | 73.47 | 1.5914 | 66.58 | 2.2735 | 95.12 | 1.2959 | 54.22 |
| 1225 | 2.32 | 0.6728 | 29.00 | 0.3371 | 14.53 | 1.6548 | 71.33 | 1.5289 | 65.90 | 2.2355 | 96.36 | 1.0700 | 46.12 |
| 1226 | 2.44 | 0.6327 | 25.93 | 0.2997 | 12.28 | 1.7194 | 70.47 | 1.5668 | 64.21 | 1.7349 | 71.10 | 0.9698 | 39.74 |
| 1229 | 2.15 | 0.6796 | 31.61 | 0.3348 | 15.57 | 1.8306 | 85.14 | 1.6824 | 78.25 | 1.3942 | 64.85 | 0.8422 | 39.17 |
| 1232 | 2.22 | 0.6882 | 31.00 | 0.3264 | 14.70 | 1.9365 | 87.23 | 1.8148 | 81.75 | 1.8359 | 82.70 | 1.0507 | 47.33 |
| 1233 | 2.40 | 0.5594 | 23.31 | 0.2432 | 10.13 | 1.7079 | 71.16 | 1.5194 | 63.31 | 2.3104 | 96.27 | 1.3382 | 55.76 |
| 1236 | 2.23 | 0.6243 | 28.00 | 0.2962 | 13.28 | 1.7320 | 77.67 | 1.5580 | 69.86 | 1.6820 | 75.43 | 1.0255 | 45.99 |
| 1237 | 2.37 | 0.6220 | 26.24 | 0.2763 | 11.66 | 1.6722 | 70.56 | 1.5690 | 66.20 | 2.0813 | 87.82 | 0.9398 | 39.65 |
| 1240 | 2.32 | 0.8036 | 34.64 | 0.4063 | 17.51 | 2.0756 | 89.46 | 1.9055 | 82.13 | 2.5458 | 109.73 | 1.0793 | 46.52 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 11): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1182 | 2.23 | 0.6047 | 27.12 | 1.6680 | 74.80 | 0.3623 | 16.25 | 0.005 | 0.22 | 25.00 | 1121.08 | 1.96 | 87.89 |
| 1184 | 2.30 | 0.7559 | 32.86 | 1.8710 | 81.35 | 0.7091 | 30.83 | 0.015 | 0.65 | 30.64 | 1332.17 | 2.40 | 104.35 |
| 1186 | 2.16 | 0.6982 | 32.32 | 1.6171 | 74.86 | 0.8461 | 39.17 | 0.013 | 0.60 | 20.80 | 962.96 | 2.00 | 92.59 |
| 1188 | 2.20 | 0.6993 | 31.79 | 1.6425 | 74.66 | 1.0337 | 46.99 | 0.008 | 0.36 | 27.64 | 1256.36 | 2.25 | 102.27 |
| 1189 | 2.40 | 0.7530 | 31.38 | 1.8294 | 76.22 | 1.2066 | 50.28 | 0.014 | 0.58 | 32.61 | 1358.75 | 2.52 | 105.00 |
| 1192 | 2.22 | 0.6947 | 31.29 | 1.7973 | 80.96 | 0.8355 | 37.64 | 0.009 | 0.40 | 30.76 | 1385.58 | 2.16 | 97.30 |
| 1194 | 2.22 | 0.7274 | 32.76 | 1.7765 | 80.02 | 1.2309 | 55.44 | 0.009 | 0.40 | 29.51 | 1329.28 | 2.32 | 104.50 |
| 1195 | 2.16 | 0.6028 | 27.91 | 1.6682 | 77.23 | 1.0630 | 49.21 | 0.012 | 0.56 | 26.56 | 1229.63 | 2.25 | 104.17 |
| 1198 | 2.36 | 0.7218 | 30.58 | 1.8638 | 78.97 | 0.9586 | 40.62 | 0.014 | 0.59 | 35.89 | 1520.76 | 2.65 | 112.29 |
| 1203 | 2.22 | 0.6076 | 27.37 | 1.6140 | 72.70 | 1.2275 | 55.29 | 0.010 | 0.45 | 26.54 | 1195.50 | 2.32 | 104.50 |
| 1204 | 2.30 | 0.7386 | 32.11 | 1.7777 | 77.29 | 1.1547 | 50.20 | 0.013 | 0.56 | 31.81 | 1383.04 | 2.56 | 111.30 |
| 1207 | 2.24 | 0.7052 | 31.48 | 1.6577 | 74.00 | 1.3065 | 58.32 | 0.012 | 0.54 | 24.11 | 1076.34 | 2.37 | 105.80 |
| 1209 | 2.22 | 0.6614 | 29.79 | 1.6149 | 72.74 | 1.2231 | 55.09 | 0.013 | 0.58 | 35.57 | 1602.25 | 2.23 | 100.45 |
| 1211 | 2.28 | 0.7154 | 31.38 | 1.7180 | 75.35 | 1.0513 | 46.11 | 0.012 | 0.53 | 27.46 | 1204.39 | 2.27 | 99.56 |
| 1212 | 2.44 | 0.7298 | 29.91 | 1.9154 | 78.50 | 1.3466 | 55.19 | 0.010 | 0.41 | 34.89 | 1429.92 | 2.49 | 102.05 |
| 1215 | 2.49 | 0.6595 | 26.48 | 1.9394 | 77.89 | 0.9439 | 37.91 | 0.014 | 0.56 | 30.79 | 1236.55 | 2.51 | 100.80 |
| 1216 | 2.30 | 0.6748 | 29.34 | 1.6544 | 71.93 | 1.4602 | 63.49 | 0.017 | 0.74 | 33.30 | 1447.83 | 1.98 | 86.09 |
| 1217 | 2.32 | 0.7102a | 30.61 | 1.7837 | 76.88 | 1.3746 | 59.25 | 0.012 | 0.52 | 30.02 | 1293.96 | 2.17 | 93.53 |
| 1219 | 2.09 | 0.6257 | 29.94 | 1.6034 | 76.72 | 0.9941 | 47.56 | 0.018 | 0.86 | 27.85 | 1332.54 | 2.07 | 99.04 |
| 1221 | 2.21 | 0.6549 | 29.63 | 1.7229 | 77.96 | 0.9705 | 43.91 | 0.012 | 0.54 | 24.86 | 1124.89 | 1.94 | 87.78 |
| 1222 | 2.07 | 0.7082 | 34.21 | 1.9675 | 95.05 | 1.0687 | 51.63 | 0.013 | 0.63 | 31.71 | 1531.88 | 2.26 | 109.18 |
| 1224 | 2.39 | 0.7384 | 30.90 | 1.8250 | 76.36 | 1.0011 | 41.89 | 0.026 | 1.09 | 26.90 | 1125.52 | 2.42 | 101.26 |
| 1225 | 2.32 | 0.6937 | 29.90 | 1.6822 | 72.51 | 1.0253 | 44.19 | 0.026 | 1.12 | 31.17 | 1343.53 | 2.28 | 98.28 |
| 1226 | 2.44 | 0.6851 | 28.08 | 1.7896 | 73.34 | 1.1083 | 45.42 | 0.021 | 0.86 | 32.01 | 1311.88 | 2.58 | 105.74 |
| 1229 | 2.15 | 0.7064 | 32.86 | 1.8647 | 86.73 | 0.5994 | 27.88 | 0.013 | 0.60 | 22.60 | 1051.16 | 2.11 | 98.14 |
| 1232 | 2.22 | 0.6704 | 30.20 | 1.8883 | 85.06 | 0.9128 | 41.12 | 0.015 | 0.68 | 26.98 | 1215.32 | 2.12 | 95.50 |
| 1233 | 2.40 | 0.6843 | 28.51 | 1.7895 | 74.56 | 1.1748 | 48.95 | 0.015 | 0.62 | 38.30 | 1595.83 | 2.77 | 115.42 |
| 1236 | 2.23 | 0.6360 | 28.52 | 1.7348 | 77.79 | 1.1124 | 49.88 | 0.013 | 0.58 | 25.35 | 1136.77 | 2.48 | 111.21 |
| 1237 | 2.37 | 0.6242 | 26.34 | 1.6814 | 70.94 | 0.8318 | 35.10 | 0.010 | 0.42 | 28.38 | 1197.47 | 2.00 | 84.39 |
| 1240 | 2.32 | 0.7558 | 32.58 | 2.0720 | 89.31 | 1.2324 | 53.12 | 0.020 | 0.86 | 28.51 | 1228.88 | 2.53 | 109.05 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 12): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1182 | 2.23 | 2.06 | 92.38 | 0.010 | 0.45 | 0.022 | 0.99 | 0.67 | 30.04 | 0.35 | 15.70 |
| 1184 | 2.30 | 2.30 | 100.00 | 0.031 | 1.35 | 0.033 | 1.43 | 0.72 | 31.30 | 0.39 | 16.96 |
| 1186 | 2.16 | 1.81a | 83.80 | 0.033 | 1.53 | 0.032 | 1.48 | 0.69 | 31.94 | 0.27 | 12.50 |
| 1188 | 2.20 | 2.21 | 100.45 | 0.031 | 1.41 | 0.016 | 0.73 | 0.78 | 35.45 | 0.56 | 25.45 |
| 1189 | 2.40 | 2.65 | 110.42 | 0.032 | 1.33 | 0.037 | 1.54 | 0.85 | 35.42 | 0.35 | 14.58 |
| 1192 | 2.22 | 2.31 | 104.05 | 0.032 | 1.44 | 0.032 | 1.44 | 0.92 | 41.44 | 0.73 | 32.88 |
| 1194 | 2.22 | 2.72 | 122.52 | 0.029 | 1.31 | 0.030 | 1.35 | 0.81 | 36.49 | 0.30 | 13.51 |
| 1195 | 2.16 | 2.27 | 105.09 | 0.025 | 1.16 | 0.028 | 1.30 | 0.76 | 35.18 | 0.37 | 17.13 |
| 1198 | 2.36 | 2.61 | 110.59 | 0.042 | 1.78 | 0.040 | 1.69 | 0.81 | 34.32 | 0.36 | 15.25 |
| 1203 | 2.22 | 2.21 | 99.55 | 0.025 | 1.13 | 0.025 | 1.13 | 0.81 | 36.49 | 0.32 | 14.41 |
| 1204 | 2.30 | 2.49 | 108.26 | 0.032 | 1.39 | 0.026 | 1.13 | 0.71 | 30.87 | 0.43 | 18.70 |
| 1207 | 2.24 | 2.19 | 97.77 | 0.025 | 1.12 | 0.022 | 0.98 | 0.65 | 29.02 | 0.27 | 12.05 |
| 1209 | 2.22 | 2.34 | 105.40 | 0.026 | 1.17 | 0.024 | 1.08 | 0.76 | 34.23 | 0.25 | 11.26 |
| 1211 | 2.28 | 2.11 | 92.54 | 0.020 | 0.88 | 0.032 | 1.40 | 0.69 | 30.26 | 0.32 | 14.04 |
| 1212 | 2.44 | 2.54 | 104.10 | 0.026 | 1.06 | 0.025 | 1.02 | 0.76 | 31.15 | 0.32 | 13.11 |
| 1215 | 2.49 | 2.56 | 102.81 | 0.030 | 1.20 | 0.029 | 1.16 | 0.84 | 33.73 | 0.32 | 12.85 |
| 1216 | 2.30 | 2.02 | 87.83 | 0.030 | 1.30 | 0.030 | 1.30 | 0.79 | 34.35 | 0.32 | 13.91 |
| 1217 | 2.32 | 2.14 | 92.24 | 0.025 | 1.08 | 0.022 | 0.95 | 0.70 | 30.17 | 0.40 | 17.24 |
| 1219 | 2.09 | 2.39 | 114.35 | 0.023 | 1.10 | 0.026 | 1.24 | 0.63 | 30.14 | 0.47 | 22.49 |
| 1221 | 2.21 | 2.09 | 94.57 | 0.025 | 1.13 | 0.026 | 1.18 | 0.79 | 35.75 | 0.55 | 24.89 |
| 1222 | 2.07 | 2.36 | 114.01 | 0.029 | 1.40 | 0.029 | 1.40 | 0.76 | 36.71 | 0.41 | 19.81 |
| 1224 | 2.39 | 2.50b | 104.60 | 0.030 | 1.26 | 0.024 | 1.00 | 0.82 | 34.31 | 0.44 | 18.41 |
| 1225 | 2.32 | 2.18 | 93.96 | 0.035 | 1.51 | 0.034 | 1.46 | 0.76 | 32.76 | 0.34 | 14.66 |
| 1226 | 2.44 | 2.60 | 106.56 | 0.029 | 1.19 | 0.026 | 1.06 | 0.92 | 37.70 | 0.45 | 18.44 |
| 1229 | 2.15 | 2.13 | 99.07 | 0.038 | 1.77 | 0.031 | 1.44 | 1.95c | 90.70 | 0.31 | 14.42 |
| 1232 | 2.22 | 2.07d | 93.24 | 0.026 | 1.17 | 0.026 | 1.17 | 0.82 | 36.94 | 0.39 | 17.57 |
| 1233 | 2.40 | 2.85 | 118.75 | 0.036 | 1.50 | 0.038 | 1.58 | 1.04 | 43.33 | 0.55 | 22.92 |
| 1236 | 2.23 | 2.44 | 109.42 | 0.028 | 1.26 | 0.024 | 1.08 | 0.88 | 39.46 | 0.36 | 16.14 |
| 1237 | 2.37 | 2.02 | 85.23 | 0.026 | 1.10 | 0.021 | 0.89 | 0.65 | 27.43 | 0.27 | 11.39 |
| 1240 | 2.32 | 2.67 | 115.09 | 0.039 | 1.68 | 0.039 | 1.68 | 0.70 | 30.17 | 0.24 | 10.34 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 1186 had moderate dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.
b. Rat 1224 had slight dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.
c. Rat 1229 had tan areas on the spleen that extended into the parenchyma; value included in group averages and statistical analysis.
d. Rat 1232 had slight dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D21 (PAGE 13): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS LEFT | | CAUDA EPIDIDYMIS LEFT | | TESTIS LEFT | | L. TESTIS MINUS TUNICA ALBUGINEA | | SEMINAL VESICLES WITH FLUID | | SEMINAL VESICLES WITHOUT FLUID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1241 | 2.21 | 0.6112 | 27.66 | 0.2998 | 13.56 | 1.5908 | 71.98 | 1.3979 | 63.25 | 1.8364 | 83.10 | 1.0081 | 45.62 |
| 1244 | 2.14 | 0.6273 | 29.31 | 0.3142 | 14.68 | 1.7212 | 80.43 | 1.5926 | 74.42 | 2.8798 | 134.57 | 1.4614 | 68.29 |
| 1245 | 2.14 | 0.6766 | 31.62 | 0.3187 | 14.89 | 1.7176 | 80.26 | 1.6080 | 75.14 | 2.1597 | 100.92 | 1.0569 | 49.39 |
| 1247 | 2.19 | 0.6881 | 31.42 | 0.3340 | 15.25 | 1.8326 | 83.68 | 1.6988 | 77.57 | 1.7738 | 81.00 | 1.0022 | 45.76 |
| 1248 | 2.02 | 0.6792 | 33.62 | 0.3129 | 15.49 | 1.6396 | 81.17 | 1.5464 | 76.55 | 2.5952 | 128.48 | 1.2934 | 64.03 |
| 1249 | 2.08 | 0.7319 | 35.19 | 0.3795 | 18.24 | 1.7786 | 85.51 | 1.6728 | 80.42 | 2.0331 | 97.74 | 1.0653 | 51.22 |
| 1252 | 2.16 | 0.6596 | 30.54 | 0.3158 | 14.62 | 1.4497 | 67.12 | 1.3774 | 63.77 | 1.8891 | 87.46 | 0.9906 | 45.86 |
| 1254 | 2.00 | 0.6469 | 32.34 | 0.3557 | 17.78 | 1.7510 | 87.55 | 1.6523 | 82.62 | 1.9214 | 96.07 | 0.8235 | 41.18 |
| 1255 | 2.29 | 0.6245 | 27.27 | 0.3120 | 13.62 | 1.7416 | 76.05 | 1.6095 | 70.28 | 1.6770 | 73.23 | 0.6609 | 28.86 |
| 1257 | 2.11 | 0.7072 | 33.52 | 0.3545 | 16.80 | 1.8200 | 86.26 | 1.7299 | 81.98 | 2.2625 | 107.23 | 1.0298 | 48.80 |
| 1259 | 1.95 | 0.6969 | 35.74 | 0.3539 | 18.15 | 1.7863 | 91.60 | 1.6566 | 84.95 | 2.0366 | 104.44 | 1.0283 | 52.73 |
| 1261 | 2.17 | 0.5900 | 27.19 | 0.2959 | 13.64 | 1.6848 | 77.64 | 1.5730 | 72.49 | 1.8242 | 84.06 | 0.8953 | 41.26 |
| 1266 | 2.09 | 0.6313 | 30.20 | 0.3086 | 14.76 | 1.6450 | 78.71 | 1.5233 | 72.88 | 1.9019 | 91.00 | 0.7353 | 35.18 |
| 1269 | 2.14 | 0.6429 | 30.04 | 0.3347 | 15.64 | 1.7958 | 83.92 | 1.6760 | 78.32 | 1.8292 | 85.48 | 0.8866 | 41.43 |
| 1271 | 2.70 | 0.6784 | 25.12 | 0.2913 | 10.79 | 1.9897 | 73.69 | 1.7853 | 66.12 | 1.8426 | 68.24 | 0.9089 | 33.66 |
| 1273 | 2.16 | 0.5963 | 27.61 | 0.2747 | 12.72 | 1.5513 | 71.82 | 1.4009 | 64.86 | 1.9182 | 88.80 | 0.9421 | 43.62 |
| 1274 | 2.27 | 0.6832 | 30.10 | 0.3324 | 14.64 | 1.8321 | 80.71 | 1.6903 | 74.46 | 1.6601 | 73.13 | 0.8003 | 35.26 |
| 1278 | 2.04 | 0.6289 | 30.83 | 0.2912 | 14.27 | 1.6986 | 83.26 | 1.6003 | 78.45 | 1.7792 | 87.22 | 0.8806 | 43.17 |
| 1281 | 2.08 | 0.6557 | 31.52 | 0.3389 | 16.29 | 1.5348 | 73.79 | 1.3779 | 66.24 | 1.8714 | 89.97 | 0.9200 | 44.23 |
| 1282 | 2.20 | 0.6104 | 27.74 | 0.2935 | 13.34 | 2.0059 | 91.18 | 1.8552 | 84.33 | 1.4607 | 66.40 | 0.7963 | 36.20 |
| 1284 | 2.25 | 0.6110 | 27.16 | 0.3077 | 13.68 | 1.7608 | 78.26 | 1.6309 | 72.48 | 1.6002 | 71.12 | 0.8986 | 39.94 |
| 1287 | 2.09 | 0.5705 | 27.30 | 0.2924 | 13.99 | 1.5426 | 73.81 | 1.4114 | 67.53 | 1.5734 | 75.28 | 0.7565 | 36.20 |
| 1288 | 2.22 | 0.5772 | 26.00 | 0.2718 | 12.24 | 1.4489 | 65.26 | 1.3122 | 59.11 | 2.0014 | 90.15 | 0.9903 | 44.61 |
| 1289 | 2.34 | 0.6419 | 27.43 | 0.3011 | 12.87 | 1.8533 | 79.20 | 1.7185 | 73.44 | 1.8222 | 77.87 | 1.0444 | 44.63 |
| 1290 | 2.27 | 0.6438 | 28.36 | 0.2949 | 12.99 | 1.8455 | 81.30 | 1.6862 | 74.28 | 1.6617 | 73.20 | 0.8188 | 36.07 |
| 1291 | 2.35 | 0.7084 | 30.14 | 0.3777 | 16.07 | 1.8660 | 79.40 | 1.5842 | 67.41 | 1.8949 | 80.63 | 0.9639 | 41.02 |
| 1294 | 2.37 | 0.7602 | 32.08 | 0.3415 | 14.41 | 2.0868 | 88.05 | 1.8566 | 78.34 | 1.3983 | 59.00 | 0.7453 | 31.45 |
| 1298 | 2.06 | 0.5738 | 27.85 | 0.2755 | 13.37 | 1.4615 | 70.95 | 1.3341 | 64.76 | 1.8111 | 87.92 | 0.8992 | 43.65 |
| 1300 | 2.18 | 0.7065 | 32.41 | 0.3154 | 14.47 | 1.6906 | 77.55 | 1.5934 | 73.09 | 1.9824 | 90.94 | 1.2279 | 56.32 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

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TABLE D21 (PAGE 14): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | EPIDIDYMIS RIGHT ABS. WT. | EPIDIDYMIS RIGHT REL. % BRW | TESTIS RIGHT ABS. WT. | TESTIS RIGHT REL. % BRW | PROSTATE ABS. WT. | PROSTATE REL. % BRW | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1241 | 2.21 | 0.6533 | 29.56 | 1.6469 | 74.52 | 0.7133 | 32.28 | 0.009 | 0.41 | 33.90 | 1533.94 | 2.30 | 104.07 |
| 1244 | 2.14 | 0.6699 | 31.30 | 1.6944 | 79.18 | 0.4297 | 20.08 | 0.012 | 0.56 | 37.00 | 1728.97 | 2.60 | 121.50 |
| 1245 | 2.14 | 0.6880 | 32.15 | 1.7335 | 81.00 | 0.6958 | 32.51 | 0.013 | 0.61 | 35.80 | 1672.90 | 2.60 | 121.50 |
| 1247 | 2.19 | 0.6936 | 31.67 | 1.7629 | 80.50 | 1.0837 | 49.48 | 0.011 | 0.50 | 30.46 | 1390.87 | 1.85 | 84.47 |
| 1248 | 2.02 | 0.7177 | 35.53 | 1.7090 | 84.60 | 0.8798 | 43.55 | 0.010 | 0.50 | 23.36 | 1156.44 | 1.90 | 94.06 |
| 1249 | 2.08 | 0.7145 | 34.35 | 1.7860 | 85.86 | 0.8470 | 40.72 | 0.011 | 0.53 | 22.66 | 1089.42 | 1.94 | 93.27 |
| 1252 | 2.16 | 0.5818 | 26.94 | 1.3457 | 62.30 | 0.7562 | 35.01 | 0.009 | 0.42 | 29.14 | 1349.07 | 1.78 | 82.41 |
| 1254 | 2.00 | 0.6693 | 33.46 | 1.8852 | 94.26 | 0.9728 | 48.64 | 0.009 | 0.45 | 24.07 | 1203.50 | 1.91 | 95.50 |
| 1255 | 2.29 | 0.6530 | 28.52 | 1.7597 | 76.84 | 1.0766 | 47.01 | 0.010 | 0.44 | 32.45 | 1417.03 | 2.13 | 93.01 |
| 1257 | 2.11 | 0.7350 | 34.83 | 1.8935 | 89.74 | 1.0167 | 48.18 | 0.013 | 0.62 | 29.80 | 1412.32 | 1.89 | 89.57 |
| 1259 | 1.95 | 0.7351 | 37.70 | 1.8626 | 95.52 | 1.1325 | 58.08 | 0.009 | 0.46 | 25.93 | 1329.74 | 1.90 | 97.44 |
| 1261 | 2.17 | 0.6319 | 29.12 | 1.7525 | 80.76 | 0.5891 | 27.15 | 0.011 | 0.51 | 24.08 | 1109.68 | 1.75 | 80.64 |
| 1266 | 2.09 | 0.6521 | 31.20 | 1.5782 | 75.51 | 1.1156 | 53.38 | 0.014 | 0.67 | 29.42 | 1407.66 | 1.90 | 90.91 |
| 1269 | 2.14 | 0.6597 | 30.83 | 1.7311 | 80.89 | 1.0011 | 46.78 | 0.005 | 0.23 | 32.70 | 1528.04 | 1.93 | 90.19 |
| 1271 | 2.70 | 0.6398 | 23.70 | 1.9298 | 71.47 | 1.0235 | 37.91 | 0.019 | 0.70 | 30.75 | 1138.89 | 2.21 | 81.85 |
| 1273 | 2.16 | 0.6096 | 28.22 | 1.5443 | 71.50 | 1.0554 | 48.86 | 0.021a | 0.97a | 27.46 | 1271.30 | 1.90 | 87.96 |
| 1274 | 2.27 | 0.6309 | 27.79 | 1.8951 | 83.48 | 1.0326 | 45.49 | 0.015 | 0.66 | 34.70 | 1528.63 | 2.29 | 100.88 |
| 1278 | 2.04 | 0.6590 | 32.30 | 1.7218 | 84.40 | 0.7614 | 37.32 | 0.024 | 1.18 | 26.59 | 1303.43 | 1.74 | 85.29 |
| 1281 | 2.08 | 0.6883 | 33.09 | 1.5678 | 75.38 | 0.7429 | 35.72 | 0.032 | 1.54 | 30.95 | 1487.98 | 2.10 | 100.96 |
| 1282 | 2.20 | 0.6620 | 30.09 | 2.0764 | 94.38 | 0.7483 | 34.01 | 0.010 | 0.45 | 29.72 | 1350.91 | 1.92 | 87.27 |
| 1284 | 2.25 | 0.6740 | 29.96 | 1.8308 | 81.37 | 1.0285 | 45.71 | 0.012 | 0.53 | 30.21 | 1342.67 | 2.16 | 96.00 |
| 1287 | 2.09 | 0.5821 | 27.85 | 1.5509 | 74.20 | 0.8656 | 41.42 | 0.010 | 0.48 | 26.56 | 1270.81 | 2.16 | 103.35 |
| 1288 | 2.22 | 0.5847 | 26.34 | 1.3930 | 62.75 | 0.8578 | 38.64 | 0.026 | 1.17 | 25.71 | 1158.11 | 1.96 | 88.29 |
| 1289 | 2.34 | 0.7166 | 30.62 | 2.0066 | 85.75 | 0.7964 | 34.03 | 0.010 | 0.43 | 33.07 | 1413.25 | 2.02 | 86.32 |
| 1290 | 2.27 | 0.6780 | 29.87 | 1.8514 | 81.56 | 0.7592 | 33.44 | 0.014 | 0.62 | 34.68 | 1527.75 | 1.99 | 87.66 |
| 1291 | 2.35 | 0.7411 | 31.54 | 1.8543 | 78.91 | 0.7997 | 34.03 | 0.008 | 0.34 | 26.73 | 1137.45 | 2.09 | 88.94 |
| 1294 | 2.37 | 0.7335 | 30.95 | 1.9582 | 82.62 | 0.9946 | 41.97 | 0.026 | 1.10 | 33.81 | 1426.58 | 2.07 | 87.34 |
| 1298 | 2.06 | 0.5936 | 28.82 | 1.4529 | 70.53 | 0.6132 | 29.77 | 0.011 | 0.53 | 27.51 | 1335.44 | 1.85 | 89.80 |
| 1300 | 2.18 | 0.7606 | 34.89 | 1.7792 | 81.61 | 0.9123 | 41.85 | 0.010 | 0.46 | 33.29 | 1527.06 | 2.06 | 94.50 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

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TABLE D21 (PAGE 15): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1241 | 2.21 | 2.28 | 103.17 | 0.024 | 1.08 | 0.031 | 1.40 | 0.65 | 29.41 | 0.28 | 12.67 |
| 1244 | 2.14 | 2.41 | 112.62 | 0.035 | 1.64 | 0.030 | 1.40 | 0.64 | 29.91 | 0.18 | 8.41 |
| 1245 | 2.14 | 2.40 | 112.15 | 0.033 | 1.54 | 0.024 | 1.12 | 0.85 | 39.72 | 0.73 | 34.11 |
| 1247 | 2.19 | 1.67 | 76.26 | 0.023 | 1.05 | 0.016 | 0.73 | 0.95 | 43.38 | 0.20 | 9.13 |
| 1248 | 2.02 | 1.94 | 96.04 | 0.031 | 1.53 | 0.029 | 1.44 | 0.60 | 29.70 | 0.53 | 26.24 |
| 1249 | 2.08 | 1.94 | 93.27 | 0.028 | 1.35 | 0.024 | 1.15 | 0.63 | 30.29 | 0.28 | 13.46 |
| 1252 | 2.16 | 1.78 | 82.41 | 0.027 | 1.25 | 0.024 | 1.11 | 0.73 | 33.80 | 0.34 | 15.74 |
| 1254 | 2.00 | 1.88 | 94.00 | 0.025 | 1.25 | 0.022 | 1.10 | 0.67 | 33.50 | 0.24 | 12.00 |
| 1255 | 2.29 | 2.23 | 97.38 | 0.023 | 1.00 | 0.019 | 0.83 | 0.67 | 29.26 | 0.31 | 13.54 |
| 1257 | 2.11 | 1.87 | 88.62 | 0.028 | 1.33 | 0.030 | 1.42 | 0.62 | 29.38 | 0.26 | 12.32 |
| 1259 | 1.95 | 1.79 | 91.79 | 0.023 | 1.18 | 0.016 | 0.82 | 0.69 | 35.38 | 0.22 | 11.28 |
| 1261 | 2.17 | 1.93 | 88.94 | 0.021 | 0.97 | 0.025 | 1.15 | 0.59 | 27.19 | 0.21 | 9.68 |
| 1266 | 2.09 | 2.00 | 95.69 | 0.030 | 1.44 | 0.028 | 1.34 | 0.78 | 37.32 | 0.30 | 14.35 |
| 1269 | 2.14 | 2.12 | 99.06 | 0.022 | 1.03 | 0.023 | 1.07 | 0.89 | 41.59 | 0.55 | 25.70 |
| 1271 | 2.70 | 2.50 | 92.59 | 0.038 | 1.41 | 0.037 | 1.37 | 0.69 | 25.56 | 0.51 | 18.89 |
| 1273 | 2.16 | 1.86 | 86.11 | 0.033 | 1.53 | 0.029 | 1.34 | 0.75 | 34.72 | 0.47 | 21.76 |
| 1274 | 2.27 | 2.35 | 103.52 | 0.020 | 0.88 | 0.022 | 0.97 | 0.84 | 37.00 | 0.68 | 29.96 |
| 1278 | 2.04 | 1.81 | 88.72 | 0.031 | 1.52 | 0.026 | 1.27 | 0.84 | 41.18 | 0.34 | 16.67 |
| 1281 | 2.08 | 2.04 | 98.08 | 0.030 | 1.44 | 0.030 | 1.44 | 0.91 | 43.75 | 0.52 | 25.00 |
| 1282 | 2.20 | 2.01 | 91.36 | 0.036 | 1.64 | 0.038 | 1.73 | 0.78 | 35.45 | 0.73 | 33.18 |
| 1284 | 2.25 | 1.99 | 88.44 | 0.034 | 1.51 | 0.032 | 1.42 | 0.65 | 28.89 | 0.46 | 20.44 |
| 1287 | 2.09 | 2.06 | 98.56 | 0.020 | 0.96 | 0.020 | 0.96 | 0.67 | 32.06 | 0.40 | 19.14 |
| 1288 | 2.22 | 2.12 | 95.50 | 0.028 | 1.26 | 0.022 | 0.99 | 0.84 | 37.84 | 0.31 | 13.96 |
| 1289 | 2.34 | 1.97 | 84.19 | 0.019 | 0.81 | 0.015 | 0.64 | 0.71 | 30.34 | 0.39 | 16.67 |
| 1290 | 2.27 | 2.08 | 91.63 | 0.026 | 1.14 | 0.030 | 1.32 | 0.81 | 35.68 | 0.43 | 18.94 |
| 1291 | 2.35 | 2.05 | 87.23 | 0.023 | 0.98 | 0.024 | 1.02 | 0.72 | 30.64 | 0.27 | 11.49 |
| 1294 | 2.37 | 2.26a | 95.36 | 0.039 | 1.64 | 0.035 | 1.48 | 1.14 | 48.10 | 0.44 | 18.56 |
| 1298 | 2.06 | 1.86 | 90.29 | 0.022 | 1.07 | 0.019 | 0.92 | 0.52 | 25.24 | 0.30 | 14.56 |
| 1300 | 2.18 | 1.99 | 91.28 | 0.026 | 1.19 | 0.024 | 1.10 | 0.78 | 35.78 | 0.39 | 17.89 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Rat 1294 had slight dilation of the pelvis of the right kidney; value included in group averages and statistical analyses.

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TABLE D22 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP I | | | 0 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 1002 | 205 | 80 | 50 | 255 | 79 | 572.6 | 26 | 42.3 |
| 1003 | 220 | 85 | 40 | 260 | 60 | 480.6 | 69 | 118.2 |
| 1005 | 216 | 87 | 31 | 247 | 53 | 497.8 | 44 | 79.8 |
| 1007 | 198 | 95 | 11 | 209 | 157 | 1355.7 | 35 | 68.9 |
| 1011 | 224 | 85 | 40 | 264 | 115 | 982.2 | 49 | 95.6 |
| 1012 | 229 | 68 | 110 | 339 | 71 | 608.9 | 47 | 81.8 |
| 1013 | 217 | 75 | 71 | 288 | 65 | 586.8 | 50 | 95.9 |
| 1014 | 383 | 84 | 71 | 454 | 189 | 1525.9 | 65 | 107.1 |
| 1017 | 191 | 92 | 17 | 208 | 98 | 966.9 | 39 | 67.4 |
| 1021 | 226 | 84 | 43 | 269 | 134 | 1113.2 | 44 | 75.5 |
| 1023 | 320 | 97 | 10 | 330 | 130 | 1126.2 | 43 | 78.8 |
| 1026 | 253 | 90 | 29 | 282 | 107 | 770.0 | 30 | 47.3 |
| 1028 | 160 | 74 | 56 | 216 | 104 | 889.3 | 45 | 80.4 |
| 1031 | 204 | 80 | 51 | 255 | 205 | 1825.8 | 34 | 59.0 |
| 1034 | 300 | 90 | 35 | 335 | 145 | 1277.6 | 41 | 79.4 |
| 1035 | 373 | 92 | 31 | 404 | 88 | 923.3 | 47 | 105.2 |
| 1040 | 197 | 87 | 29 | 226 | 200 | 2032.8 | 63 | 119.6 |
| 1041 | 183 | 86 | 31 | 214 | 162 | 1803.1 | 48 | 93.8 |
| 1043 | 424 | 91 | 42 | 466 | 386 | 3522.4 | 45 | 79.3 |
| 1045 | 370 | 86 | 60 | 430 | 160 | 1387.8 | 42 | 71.4 |
| 1047 | 314 | 89 | 40 | 354 | 143 | 1125.3 | 64 | 114.9 |
| 1048 | 256 | 74 | 89 | 345 | 238 | 2129.5 | 32 | 71.8 |
| 1050 | 336 | 78 | 96 | 432 | 195 | 1612.6 | 83 | 164.8 |
| 1051 | 244 | 86 | 39 | 283 | 129 | 980.5 | 33 | 52.6 |
| 1052 | 295 | 78 | 85 | 380 | 92 | 690.5 | 37 | 60.2 |
| 1054 | 218 | 90 | 25 | 243 | 156 | 1181.6 | 59 | 94.7 |
| 1055 | 179 | 56 | 141 | 320 | 85 | 758.2 | 43 | 76.6 |
| 1058 | 202 | 70 | 88 | 290 | 88 | 904.6 | 32 | 61.2 |
| 1059 | 175 | 81 | 40 | 215 | 71 | 699.3 | 36 | 64.9 |
| 1060 | 191 | 84 | 36 | 227 | 162 | 1498.1 | 34 | 68.6 |

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TABLE D22 (PAGE 2): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP II | | 1 MG/KG/DAY | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 1061 | 189 | 76 | 61 | 250 | 105 | 854.9 | 28 | 49.7 |
| 1063 | 165 | 77 | 48 | 213 | 109 | 955.5 | 57 | 94.1 |
| 1066 | 171 | 75 | 57 | 228 | 40 | 418.9 | 16 | 28.0 |
| 1067 | 267 | 78 | 77 | 344 | 80 | 801.9 | 31 | 62.0 |
| 1069 | 193 | 67 | 94 | 287 | 109 | 1041.6 | 22 | 38.5 |
| 1071 | 232 | 78 | 66 | 298 | 98 | 867.2 | 48 | 91.9 |
| 1073 | 342 | 80 | 83 | 425 | 52 | 555.7 | 58 | 90.5 |
| 1077 | 327 | 76 | 104 | 431 | 90 | 648.6 | 58 | 101.6 |
| 1078 | 203 | 87 | 30 | 233 | 185 | 1344.9 | 42 | 73.0 |
| 1081 | 337 | 94 | 20 | 357 | 188 | 1465.1 | 37 | 66.7 |
| 1082f | 9 | 31 | 20 | 29 | 1 | 19.8 | 6 | 38.1 |
| 1083 | 213 | 88 | 28 | 241 | 138 | 1153.7 | 24 | 50.6 |
| 1086 | 348 | 90 | 40 | 388 | 75 | 879.4 | 34 | 64.8 |
| 1088 | 238 | 94 | 16 | 254 | 228 | 1871.6 | 38 | 71.3 |
| 1090 | 222 | 83 | 44 | 266 | 155 | 1455.7 | 36 | 68.3 |
| 1091 | 255 | 89 | 31 | 286 | 282 | 2708.3 | 46 | 98.4 |
| 1094 | 184 | 88 | 25 | 209 | 499 | 4438.7 | 54 | 107.2 |
| 1096 | 203 | 91 | 21 | 224 | 196 | 1724.4 | 61 | 112.7 |
| 1098 | 214 | 91 | 21 | 235 | 410 | 3067.8 | 68 | 111.9 |
| 1100 | 312 | 87 | 47 | 359 | 235 | 2055.0 | 55 | 103.5 |
| 1103 | 273 | 81 | 62 | 335 | 368 | 3159.7 | 60 | 111.8 |
| 1106 | 346 | 88 | 47 | 393 | 156 | 1635.6 | 40 | 81.4 |
| 1107 | 282 | 79 | 74 | 356 | 134 | 1261.8 | 26 | 52.1 |
| 1110 | 381 | 83 | 80 | 461 | 93 | 867.5 | 23 | 43.8 |
| 1112 | 318 | 75 | 108 | 426 | 98 | 823.6 | 61 | 104.4 |
| 1114 | 265 | 90 | 28 | 293 | 104 | 949.3 | 27 | 42.9 |
| 1116 | 624 | 89 | 79 | 703 | 74 | 733.3 | 21 | 42.9 |
| 1118 | 189 | 86 | 30 | 219 | 111 | 1085.5 | 30 | 54.7 |
| 1120 | 167 | 84 | 33 | 200 | 123 | 1039.1 | 30 | 46.4 |

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TABLE D22 (PAGE 3): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP III | | | 3 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 1122 | 205 | 93 | 15 | 220 | 30 | 250.1 | 34 | 64.6 |
| 1123 | 198 | 78 | 55 | 253 | 76 | 740.7 | 21 | 35.9 |
| 1127 | 171 | 80 | 42 | 213 | 125 | 1095.1 | 24 | 45.9 |
| 1129 | 186 | 60 | 124 | 310 | 68 | 561.7 | 50 | 79.8 |
| 1131 | 252 | 88 | 33 | 285 | 161 | 1300.5 | 45 | 77.9 |
| 1132 | 244 | 86 | 41 | 285 | 123 | 1053.3 | 39 | 68.9 |
| 1134 | 298 | 79 | 78 | 376 | 148 | 1274.9 | 16 | 26.2 |
| 1135 | 292 | 87 | 44 | 336 | 256 | 2301.2 | 36 | 65.0 |
| 1136 | 280 | 89 | 36 | 316 | 139 | 1180.5 | 36 | 61.9 |
| 1139 | 182 | 78 | 51 | 233 | 192 | 1696.4 | 68 | 125.8 |
| 1141 | 391 | 88 | 53 | 444 | 74 | 603.7 | 29 | 57.4 |
| 1142 | 298 | 85 | 54 | 352 | 89 | 871.8 | 43 | 81.2 |
| 1145 | 271 | 92 | 23 | 294 | 95 | 844.3 | 31 | 51.3 |
| 1147 | 183 | 85 | 32 | 215 | 194 | 1564.1 | 29 | 52.2 |
| 1149 | 204 | 89 | 25 | 229 | 144 | 1008.1 | 72 | 107.7 |
| 1151 | 271 | 94 | 17 | 288 | 407 | 3703.5 | 62 | 112.6 |
| 1153 | 236 | 92 | 21 | 257 | 214 | 1848.4 | 67 | 70.0 |
| 1154 | 232 | 88 | 31 | 263 | 209 | 2067.6 | 45 | 91.2 |
| 1158 | 395 | 90 | 46 | 441 | 104 | 994.8 | 55 | 103.1 |
| 1159 | 231 | 75 | 76 | 307 | 125 | 977.8 | 61 | 104.2 |
| 1162 | 294 | 81 | 67 | 361 | 104 | 970.1 | 40 | 74.3 |
| 1164 | 406 | 86 | 64 | 470 | 333 | 2666.1 | 44 | 71.6 |
| 1167 | 337 | 84 | 62 | 399 | 121 | 1076.3 | 33 | 63.3 |
| 1168 | 311 | 89 | 38 | 349 | 113 | 1126.0 | 33 | 59.0 |
| 1171 | 434 | 81 | 104 | 538 | 160 | 1594.3 | 21 | 43.2 |
| 1173 | 282 | 81 | 67 | 349 | 129 | 1140.1 | 35 | 71.0 |
| 1175 | 243 | 79 | 66 | 309 | 66 | 695.5 | 20 | 35.3 |
| 1176 | 254 | 77 | 76 | 330 | 120 | 1212.5 | 27 | 43.0 |
| 1177 | 178 | 84 | 34 | 212 | 125 | 1034.9 | 41 | 56.4 |
| 1180 | 390 | 78 | 108 | 498 | 95 | 820.3 | 21 | 32.8 |

PROTOCOL 418-020: ORAL (GAVAGE) TWO GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D22 (PAGE 4): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP IV | | | 10 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 1182 | 288 | 80 | 73 | 361 | 99 | 1063.8 | 34 | 63.1 |
| 1184 | 175 | 81 | 42 | 217 | 46 | 379.3 | 42 | 68.4 |
| 1186 | 188 | 85 | 34 | 222 | 189 | 1579.2 | 31 | 61.6 |
| 1188 | 206 | 87 | 31 | 237 | 72 | 634.0 | 42 | 76.0 |
| 1189 | 338 | 84 | 65 | 403 | 143 | 992.7 | 29 | 54.1 |
| 1192 | 239 | 72 | 92 | 331 | 110 | 1024.5 | 24 | 45.5 |
| 1194 | 286 | 89 | 34 | 320 | 88 | 747.8 | 48 | 84.1 |
| 1195 | 194 | 91 | 20 | 214 | 157 | 1434.9 | 23 | 42.2 |
| 1198 | 192 | 91 | 20 | 212 | 105 | 829.4 | 27 | 43.5 |
| 1203 | 181 | 83 | 37 | 218 | 148 | 1466.2 | 27 | 53.7 |
| 1204 | 200 | 68 | 93 | 293 | 224 | 1696.2 | 30 | 52.3 |
| 1207 | 190 | 73 | 72 | 262 | 146 | 1198.8 | 53 | 93.3 |
| 1209 | 221 | 85 | 39 | 260 | 99 | 836.6 | 61 | 110.5 |
| 1211 | 233 | 78 | 67 | 300 | 123 | 1080.2 | 50 | 88.7 |
| 1212 | 194 | 90 | 22 | 216 | 213 | 1713.4 | 31 | 49.3 |
| 1215 | 189 | 87 | 28 | 217 | 238 | 2196.1 | 75 | 125.8 |
| 1216 | 252 | 95 | 14 | 266 | 233 | 1893.8 | 37 | 71.8 |
| 1217 | 294 | 83 | 60 | 354 | 205 | 1847.9 | 42 | 71.9 |
| 1219 | 338 | 80 | 87 | 425 | 108 | 1142.3 | 34 | 66.4 |
| 1221 | 229 | 83 | 48 | 277 | 290 | 2974.8 | 83 | 155.0 |
| 1222 | 263 | 71 | 108 | 371 | 103 | 889.7 | 63 | 100.4 |
| 1224 | 407 | 86 | 65 | 472 | 94 | 757.0 | 57 | 103.6 |
| 1225 | 319 | 75 | 104 | 423 | 184 | 1578.9 | 31 | 58.7 |
| 1226 | 299 | 77 | 90 | 389 | 94 | 907.3 | 25 | 46.2 |
| 1229 | 264 | 79 | 71 | 335 | 113 | 976.3 | 47 | 80.8 |
| 1232 | 341 | 92 | 30 | 371 | 165 | 1462.3 | 39 | 62.2 |
| 1233 | 292 | 90 | 33 | 325 | 40 | 475.8 | 17 | 32.4 |
| 1236 | 162 | 73 | 61 | 223 | 70 | 683.6 | 29 | 53.8 |
| 1237 | 340 | 89 | 44 | 384 | 116 | 1214.5 | 44 | 81.1 |
| 1240 | 454 | 81 | 105 | 559 | 74 | 526.9 | 30 | 45.5 |

PROTOCOL 418-020: ORAL (GAVAGE) TWO GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D22 (PAGE 5): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS
(See footnotes at the end of this table.)

| DOSAGE GROUP V | | | 30 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAT NUMBER | NUMBER MOTILE | MOTILE PERCENT | STATIC COUNT (NONMOTILE) | TOTAL COUNT a | SPERM COUNT b | SPERM DENSITY c | SPERMATID COUNT d | SPERMATID DENSITY e |
| 1241 | 159 | 75 | 53 | 212 | 68 | 656.1 | 20 | 41.4 |
| 1244 | 330 | 77 | 97 | 427 | 60 | 552.4 | 37 | 67.2 |
| 1245 | 172 | 80 | 43 | 215 | 68 | 617.2 | 60 | 107.9 |
| 1247 | 287 | 84 | 55 | 342 | 104 | 900.7 | 39 | 66.4 |
| 1248 | 251 | 86 | 40 | 291 | 78 | 721.1 | 10 | 18.7 |
| 1249 | 470 | 82 | 103 | 573 | 45 | 343.0 | 36 | 62.3 |
| 1252 | 289 | 60 | 196 | 485 | 52 | 476.3 | 56 | 117.6 |
| 1254 | 219 | 92 | 18 | 237 | 163 | 1325.6 | 38 | 66.5 |
| 1255 | 294 | 87 | 44 | 338 | 128 | 1186.8 | 57 | 102.4 |
| 1257 | 91 | 45 | 113 | 204 | 168 | 1370.9 | 51 | 85.3 |
| 1259 | 254 | 91 | 24 | 278 | 253 | 2068.0 | 29 | 50.6 |
| 1261 | 231 | 91 | 23 | 254 | 136 | 1329.5 | 37 | 68.0 |
| 1266 | 420 | 83 | 88 | 508 | 125 | 1171.7 | 26 | 49.4 |
| 1269 | 192 | 64 | 110 | 302 | 108 | 933.4 | 83 | 143.3 |
| 1271 | 209 | 95 | 12 | 221 | 82 | 814.3 | 80 | 129.6 |
| 1273 | 279 | 83 | 58 | 337 | 110 | 1158.3 | 32 | 66.1 |
| 1274 | 296 | 93 | 24 | 320 | 130 | 1131.3 | 50 | 85.6 |
| 1278 | 451 | 84 | 86 | 537 | 73 | 725.2 | 44 | 79.5 |
| 1281 | 310 | 85 | 54 | 364 | 279 | 2381.4 | 44 | 92.4 |
| 1282 | 256 | 66 | 130 | 386 | 67 | 660.3 | 53 | 82.6 |
| 1284 | 251 | 81 | 60 | 311 | 174 | 1635.8 | 43 | 76.3 |
| 1287 | 159 | 75 | 54 | 213 | 100 | 989.3 | 53 | 108.6 |
| 1288 | 167 | 83 | 34 | 201 | 61 | 649.2 | 23 | 50.7 |
| 1289 | 326 | 84 | 62 | 388 | 111 | 1066.4 | 34 | 57.2 |
| 1290 | 240 | 86 | 40 | 280 | 201 | 1971.6 | 44 | 75.5 |
| 1291 | 250 | 77 | 73 | 323 | 73 | 559.1 | 40 | 73.0 |
| 1294 | 240 | 71 | 98 | 338 | 147 | 1245.2 | 50 | 77.9 |
| 1298 | 184 | 88 | 25 | 209 | 96 | 1008.0 | 21 | 45.5 |
| 1300 | 182 | 76 | 57 | 239 | 96 | 880.5 | 49 | 89.0 |

TABLE D22 (PAGE 6): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

FOOTNOTES:

a. Sum of number motile and static count. Groups of five fields were evaluated until a sperm count of at least 200 was achieved or 20 fields were evaluated.

b. Sperm count used in the calculation of sperm density. Ten fields were evaluated.

c. The sperm density was calculated by dividing the sperm count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table D20 for the weight of the left cauda epididymis) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

d. Spermatid count used in the calculation of spermatid density. Ten fields were evaluated.

e. The spermatid density was calculated by dividing the spermatid count by the volume in the image area ($34.3 \times 10^{-6}$ mL), multiplying by 2 (dilution factor) and multiplying by $10^{-6}$ to obtain the spermatid concentration. The calculated spermatid concentration value (rounded to 1 decimal place) was multiplied by 50 (volume) and divided by the weight of the left testis minus tunica albuginea (see Table D20 for the weight of the left testis minus tunica albuginea) to obtain the spermatid density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

f. Rat 1082 had less than 200 sperm per 20 fields; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D23 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGELLUM | NO HOOK | COILED FLAGELLUM | BENT FLAGELLUM | BENT FLAGELLUM TIP | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|
| 1002 | 198 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1003 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1005 | 193 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1007 | 195 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1011 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1012 | 196 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1013 | 192 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 1014 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1017 | 196 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 2.0 |
| 1021 | 194 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 3.0 |
| 1023 | 191 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 4.5 |
| 1026 | 197 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1.5 |
| 1028 | 197 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1.5 |
| 1031 | 196 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1034 | 196 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1035 | 195 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 2.5 |
| 1040 | 198 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1.0 |
| 1041 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1043 | 194 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1045 | 196 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2.0 |
| 1047 | 193 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 3.5 |
| 1048 | 193 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1050 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1051 | 198 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1052 | 196 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1054 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1055 | 198 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1.0 |
| 1058 | 195 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1059 | 196 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1060 | 195 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 2.5 |

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TABLE D23 (PAGE 2): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGELLUM | NO HOOK | COILED FLAGELLUM | BENT FLAGELLUM | BENT FLAGELLUM TIP | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|
| 1061 | 194 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1063 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1066 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1067 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1069 | 198 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1071 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1073 | 193 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1077 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1078 | 191 | 5 | 3 | 0 | 1 | 0 | 0 | 0 | 4.5 |
| 1081 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1082a | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 100.0 |
| 1083 | 196 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 2.0 |
| 1086 | 190 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 1088 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1090 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1091 | 194 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1094 | 196 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1096 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1098 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1100 | 195 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1103 | 191 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 1106 | 197 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1107 | 198 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1110 | 190 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 5.0 |
| 1112 | 199 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| 1114 | 199 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| 1116 | 193 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 3.5 |
| 1118 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1120 | 198 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1.0 |

a. Rat 1082 had less than 200 sperm per 20 fields; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE D23 (PAGE 3): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP III 3 MG/KG/DAY

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGELLUM | NO HOOK | COILED FLAGELLUM | BENT FLAGELLUM | BENT FLAGELLUM TIP | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|
| 1122 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1123 | 191 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 1127 | 193 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1129 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1131 | 196 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1132 | 196 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1134 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1135 | 197 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1.5 |
| 1136 | 195 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 2.5 |
| 1139 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1141 | 194 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1142 | 196 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 2.0 |
| 1145 | 194 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1147 | 197 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1149 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1151 | 199 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| 1153 | 190 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 5.0 |
| 1154 | 198 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1158 | 193 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 3.5 |
| 1159 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1162 | 196 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1164 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1167 | 196 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1168 | 196 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2.0 |
| 1171 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1173 | 195 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 2.5 |
| 1175 | 193 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 3.5 |
| 1176 | 194 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1177 | 192 | 4 | 2 | 1 | 0 | 1 | 0 | 0 | 4.0 |
| 1180 | 196 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 2.0 |

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TABLE D23 (PAGE 4): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGELLUM | NO HOOK | COILED FLAGELLUM | BENT FLAGELLUM | BENT FLAGELLUM TIP | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|
| 1182 | 196 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 2.0 |
| 1184 | 196 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1186 | 195 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 2.5 |
| 1188 | 195 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 2.5 |
| 1189 | 196 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1192 | 197 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1194 | 198 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1195 | 195 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1198 | 197 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1.5 |
| 1203 | 193 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1204 | 193 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1207 | 196 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1209 | 192 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 1211 | 194 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1212 | 192 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 1215 | 194 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1216 | 193 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 3.5 |
| 1217 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1219 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1221 | 199 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| 1222 | 195 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 2.5 |
| 1224 | 193 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1225 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1226 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1229 | 198 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1.0 |
| 1232 | 198 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1233 | 198 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1.0 |
| 1236 | 191 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 1237 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1240 | 193 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 3.5 |

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TABLE D23 (PAGE 5): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP V 30 MG/KG/DAY

| RAT NUMBER | NORMAL | DETACHED HEAD | NO HEAD | BROKEN FLAGELLUM | NO HOOK | COILED FLAGELLUM | BENT FLAGELLUM | BENT FLAGELLUM TIP | PERCENT ABNORMAL |
|---|---|---|---|---|---|---|---|---|---|
| 1241 | 191 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 4.5 |
| 1244 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1245 | 196 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2.0 |
| 1247 | 193 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 3.5 |
| 1248 | 196 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1249 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1252 | 189 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 5.5 |
| 1254 | 195 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 1255 | 195 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 2.5 |
| 1257 | 196 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 2.0 |
| 1259 | 197 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1261 | 193 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 3.5 |
| 1266 | 196 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1269 | 196 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1271 | 198 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| 1273 | 195 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 2.5 |
| 1274 | 194 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 3.0 |
| 1278 | 193 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 1281 | 192 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 4.0 |
| 1282 | 191 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 4.5 |
| 1284 | 196 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2.0 |
| 1287 | 196 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2.0 |
| 1288 | 194 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 3.0 |
| 1289 | 188 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 6.0 |
| 1290 | 192 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 4.0 |
| 1291 | 192 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| 1294 | 197 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| 1298 | 194 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 3.0 |
| 1300 | 191 | 5 | 3 | 0 | 0 | 0 | 0 | 1 | 4.5 |

# APPENDIX E

# REPORT TABLES - F1 GENERATION FEMALE RATS

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E1 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| PRECOHABITATION (DAY 1 OF STUDY TO THE DAY OF COHABITATION): | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 3283/ 60 | 3306/ 60 | 3310/ 60 | 3281/ 60 | 3171/ 60a |
| FOUND DEAD | 0 | 2b,c | 1d | 1e | 6**f-k |
| ABDOMINAL DISTENTION | 47/ 6 | 56/ 7 | 29/ 4 | 39/ 5 | 72/ 10 |
| URINE-STAINED ABDOMINAL FUR | 8/ 2 | 48/ 5c | 22/ 4d | 14/ 4e | 21/ 5f,g,j |
| COLD TO TOUCH | 0/ 0 | 1/ 1b | 0/ 0 | 1/ 1e | 8/ 3f,g,j |
| ANNULAR CONSTRICTION OF THE TAIL | 0/ 0 | 16/ 2 | 0/ 0 | 0/ 0 | 3/ 3 |
| CHROMORHINORRHEA | 4/ 2 | 14/ 4b,c | 17/ 7d | 1/ 1 | 7/ 2f |
| RALES | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 2/ 2 |
| TIP OF TAIL MISSING | 0/ 0 | 61/ 2b | 0/ 0 | 70/ 1 | 18/ 1 |
| BACK OR HEAD: SCAB | 1/ 1 | 0/ 0 | 0/ 0 | 9/ 1 | 6/ 1 |
| LOCALIZED ALOPECIA: TOTAL | 19/ 2 | 22/ 1 | 42/ 2 | 18/ 2 | 5/ 1 |
| LIMBS | 4/ 1 | 22/ 1 | 42/ 2 | 15/ 1 | 5/ 1 |
| NECK | 0/ 0 | 0/ 0 | 0/ 0 | 3/ 1 | 0/ 0 |
| HEAD | 15/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rats 1562 and 1563 did not have clinical observations recorded on day 1 postweaning.
b. Rat 1365 was found dead on day 4 postweaning.
c. Rat 1373 was found dead on day 51 postweaning.
d. Rat 1432 was found dead on day 7 postweaning.
e. Rat 1484 was found dead on day 3 postweaning.
f. Rat 1549 was found dead on day 8 postweaning.
g. Rat 1559 was found dead on day 6 postweaning.
h. Rat 1562 was found dead on day 2 postweaning.
i. Rat 1563 was found dead on day 2 postweaning.
j. Rat 1574 was found dead on day 3 postweaning.
k. Rat 1575 was found dead on day 3 postweaning.
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E1 (PAGE 2): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| PRECOHABITATION (DAY 1 OF STUDY TO THE DAY OF COHABITATION): | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 3283/ 60 | 3306/ 60 | 3310/ 60 | 3281/ 60 | 3171/ 60a |
| FOUND DEAD | 0 | 2b,c | 1d | 1e | 6**f-k |
| DECREASED MOTOR ACTIVITY | 0/ 0 | 7/ 2b,c | 0/ 0 | 1/ 1e | 2/ 1f |
| EMACIATION | 4/ 1 | 16/ 1c | 2/ 2d | 1/ 1 | 1/ 1g |
| TAIL BENT | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 |
| INCISORS: TOTAL | 30/ 3 | 2/ 1 | 57/ 3 | 10/ 1 | 0/ 0 |
| MISALIGNED | 17/ 1 | 0/ 0 | 15/ 2 | 10/ 1 | 0/ 0 |
| MISSING/BROKEN | 13/ 2 | 2/ 1 | 43/ 3 | 0/ 0 | 0/ 0 |
| LACRIMATION | 1/ 1 | 4/ 1 | 0/ 0 | 1/ 1 | 0/ 0 |
| RIGHT OR LEFT EYE: SWOLLEN | 0/ 0 | 4/ 1 | 0/ 0 | 1/ 1 | 0/ 0 |
| LABORED BREATHING | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1e | 0/ 0 |
| SOFT OR LIQUID FECES | 0/ 0 | 1/ 1 | 3/ 2 | 0/ 0 | 0/ 0 |
| CHROMODACRYORRHEA | 5/ 2 | 1/ 1c | 19/ 1 | 0/ 0 | 0/ 0 |
| SWOLLEN EAR(S) | 24/ 1 | 16/ 1 | 3/ 1 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rats 1562 and 1563 did not have clinical observations recorded on day 1 postweaning.
b. Rat 1365 was found dead on day 4 postweaning.
c. Rat 1373 was found dead on day 51 postweaning.
d. Rat 1432 was found dead on day 7 postweaning.
e. Rat 1484 was found dead on day 3 postweaning.
f. Rat 1549 was found dead on day 8 postweaning.
g. Rat 1559 was found dead on day 6 postweaning.
h. Rat 1562 was found dead on day 2 postweaning.
i. Rat 1563 was found dead on day 2 postweaning.
j. Rat 1574 was found dead on day 3 postweaning.
k. Rat 1575 was found dead on day 3 postweaning.
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E1 (PAGE 3): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| PRECOHABITATION (DAY 1 OF STUDY TO THE DAY OF COHABITATION): | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 3283/ 60 | 3306/ 60 | 3310/ 60 | 3281/ 60 | 3171/ 60a |
| FOUND DEAD | 0 | 2b,c | 1d | 1e | 6**f-k |
| DEHYDRATION | 5/ 1 | 23/ 2c | 0/ 0 | 0/ 0 | 0/ 0 |
| HEAD: SWOLLEN | 0/ 0 | 1/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| SNOUT: SWOLLEN | 0/ 0 | 1/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| PTOSIS | 20/ 2 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rats 1562 and 1563 did not have clinical observations recorded on day 1 postweaning.
b. Rat 1365 was found dead on day 4 postweaning.
c. Rat 1373 was found dead on day 51 postweaning.
d. Rat 1432 was found dead on day 7 postweaning.
e. Rat 1484 was found dead on day 3 postweaning.
f. Rat 1549 was found dead on day 8 postweaning.
g. Rat 1559 was found dead on day 6 postweaning.
h. Rat 1562 was found dead on day 2 postweaning.
i. Rat 1563 was found dead on day 2 postweaning.
j. Rat 1574 was found dead on day 3 postweaning.
k. Rat 1575 was found dead on day 3 postweaning.
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E1 (PAGE 4): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| PRESUMED GESTATION: a | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 644/ 29 | 644/ 29 | 669/ 30 | 670/ 30 | 663/ 30 |
| MORTALITY | 0 | 0 | 0 | 0 | 0 |
| LOCALIZED ALOPECIA: LIMBS | 2/ 1 | 22/ 1 | 7/ 1 | 0/ 0 | 16/ 4 |
| RIGHT AXILLA: MASS | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 8/ 1 |
| TIP OF TAIL MISSING | 0/ 0 | 22/ 1 | 0/ 0 | 17/ 1 | 0/ 0 |
| CHROMODACRYORRHEA | 0/ 0 | 0/ 0 | 22/ 1 | 0/ 0 | 0/ 0 |
| SWOLLEN EAR(S) | 65/ 4 | 23/ 2* | 0/ 0** | 0/ 0** | 0/ 0** |
| PTOSIS | 22/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| INCISORS: TOTAL | 29/ 2 | 0/ 0 | 28/ 2 | 3/ 1 | 0/ 0 |
| MISALIGNED | 29/ 2 | 0/ 0 | 0/ 0 | 3/ 1 | 0/ 0 |
| MISSING/BROKEN | 0/ 0 | 0/ 0 | 28/ 2 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Restricted to rats with a confirmed mating date.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E1 (PAGE 5): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| LACTATION: | | | | | |
| MAXIMUM POSSIBLE INCIDENCE | 616/ 28 | 616/ 28 | 616/ 28 | 616/ 28 | 638/ 29 |
| MORTALITY | 0 | 0 | 0 | 0 | 0 |
| LOCALIZED ALOPECIA: LIMBS | 22/ 1 | 22/ 1 | 81/ 4 | 33/ 2 | 72/ 4 |
| RIGHT AXILLA: MASS | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 19/ 1 |
| SWOLLEN EAR(S) | 88/ 4 | 22/ 1 | 0/ 0 | 0/ 0 | 18/ 1 |
| RED PERIVAGINAL SUBSTANCE | 0/ 0 | 0/ 0 | 4/ 4** | 0/ 0 | 1/ 1 |
| SOFT OR LIQUID FECES | 0/ 0 | 0/ 0 | 5/ 3 | 6/ 2 | 0/ 0 |
| URINE-STAINED ABDOMINAL FUR | 0/ 0 | 0/ 0 | 0/ 0 | 3/ 2 | 0/ 0 |
| INCISORS: TOTAL | 42/ 2 | 0/ 0 | 44/ 2 | 0/ 0 | 0/ 0 |
| MISSING/BROKEN | 19/ 1 | 0/ 0 | 44/ 2 | 0/ 0 | 0/ 0 |
| MISALIGNED | 29/ 2 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| CHROMODACRYORRHEA | 0/ 0 | 0/ 0 | 22/ 1 | 0/ 0 | 0/ 0 |
| TIP OF TAIL MISSING | 0/ 0 | 22/ 1 | 0/ 0 | 22/ 1 | 0/ 0 |
| PTOSIS | 22/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E2 (PAGE 1): BODY WEIGHTS - PRECOHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 60 | 60 | 60 | 60 | 58a |
| BODY WEIGHT (G) | | | | | | |
| DAY 1 | MEAN±S.D. | 41.4 ± 6.8 | 39.2 ± 6.3 | 42.9 ± 8.7 | 43.3 ± 7.3 | 39.2 ± 7.9 |
| DAY 8 | MEAN±S.D. | 71.7 ± 9.9 | 66.8 ± 8.5* [ 59]a | 73.5 ± 12.6 [ 59]a | 72.1 ± 11.5 [ 59]a | 66.9 ± 9.9* [ 54]a |
| DAY 15 | MEAN±S.D. | 111.3 ± 13.0 | 104.2 ± 10.6** [ 59]a | 112.7 ± 13.7 [ 59]a | 108.6 ± 13.8 [ 59]a | 102.8 ± 13.2** [ 54]a |
| DAY 22 | MEAN±S.D. | 148.9 ± 14.2 [ 59]a | 142.9 ± 11.1* [ 59]a | 151.1 ± 12.3 [ 59]a | 146.8 ± 15.1 [ 59]a | 139.4 ± 13.4** [ 54]a |
| DAY 29 | MEAN±S.D. | 177.0 ± 16.2 [ 47]a | 170.2 ± 12.0* [ 53]a | 180.6 ± 14.2 [ 51]a | 175.0 ± 14.8 [ 48]a | 167.9 ± 16.0** [ 45]a |

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation or found dead.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E2 (PAGE 2): BODY WEIGHTS - PRECOHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 30a | 30a | 30a | 30a | 30a |
| BODY WEIGHT (G) | | | | | | |
| DAY 36 | MEAN±S.D. | 199.9 ± 15.7 | 193.5 ± 19.7 | 203.8 ± 15.3 | 198.5 ± 18.1 | 190.1 ± 19.1 |
| DAY 43 | MEAN±S.D. | 219.8 ± 18.4 | 212.5 ± 24.6 | 225.6 ± 13.2 | 219.3 ± 18.4 | 209.7 ± 18.4 |
| DAY 50 | MEAN±S.D. | 237.1 ± 19.2 | 228.3 ± 29.6 | 243.5 ± 14.7 | 236.0 ± 18.0 | 224.4 ± 19.2* |
| DAY 57 | MEAN±S.D. | 248.6 ± 17.1 | 244.2 ± 20.7 | 254.6 ± 14.7 | 247.0 ± 19.0 | 236.1 ± 20.8* |
| DAY 64 | MEAN±S.D. | 259.6 ± 19.9 | 255.6 ± 20.7 [ 29]a | 266.9 ± 16.7 | 259.4 ± 21.9 | 248.7 ± 22.1 |
| DAY 70b | MEAN±S.D. | 264.9 ± 19.7 | 263.4 ± 20.7 [ 29]a | 274.2 ± 16.4 | 266.2 ± 21.0 | 254.5 ± 21.8 |
| PRECOHAB-ITATION c | MEAN±S.D. | 276.7 ± 22.9 | 278.1 ± 23.6 [ 29]a | 287.4 ± 18.1 | 277.0 ± 22.1 | 263.7 ± 23.0* |

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation or found dead.
b. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
c. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.
* Significantly different from the Group I value ($p \leq 0.05$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E3 (PAGE 1): BODY WEIGHT CHANGES - PRECOHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 60 | 59a | 59a | 59a | 54a |
| BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | +30.3 ± 4.6 | +27.4 ± 3.9** | +30.4 ± 5.6 | +28.5 ± 6.5 | +26.6 ± 4.2** |
| DAYS 8 - 15 | MEAN±S.D. | +39.6 ± 4.3 | +37.4 ± 3.8* | +39.2 ± 4.5 | +36.5 ± 5.3** | +35.9 ± 4.8** |
| DAYS 15 - 22 | MEAN±S.D. | +37.6 ± 5.2 [ 59]a | +38.7 ± 4.4 | +38.4 ± 6.0 | +38.2 ± 5.5 | +36.5 ± 4.9 |
| DAYS 22 - 29 | MEAN±S.D. | +28.2 ± 5.4 [ 47]a | +28.0 ± 5.9 [ 53]a | +28.7 ± 6.7 [ 51]a | +28.2 ± 5.3 [ 48]a | +28.6 ± 5.3 [ 45]a |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation or found dead.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E3 (PAGE 2): BODY WEIGHT CHANGES - PRECOHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 30a | 30a | 30a | 30a | 30a |
| BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 29 - 36 | MEAN±S.D. | +25.1 ± 6.1 | +23.3 ± 9.8 | +25.0 ± 8.9 | +23.9 ± 4.2 | +22.8 ± 5.5 |
| DAYS 36 - 43 | MEAN±S.D. | +19.9 ± 7.9 | +19.0 ± 7.8 | +21.8 ± 8.4 | +20.8 ± 5.9 | +19.6 ± 4.7 |
| DAYS 43 - 50 | MEAN±S.D. | +17.3 ± 7.7 | +15.8 ± 7.9 | +18.0 ± 5.8 | +16.6 ± 4.5 | +14.7 ± 3.6 |
| DAYS 50 - 57 | MEAN±S.D. | +11.5 ± 7.6 | +11.8 ± 6.5 [ 29]a | +11.1 ± 8.1 | +11.1 ± 6.0 | +11.7 ± 5.3 |
| DAYS 57 - 64 | MEAN±S.D. | +11.0 ± 5.9 | +11.4 ± 7.4 [ 29]a | +12.3 ± 5.2 | +12.4 ± 5.7 | +12.7 ± 3.4 |
| DAYS 64 - 70b | MEAN±S.D. | +5.3 ± 4.7 | +7.8 ± 7.3 [ 29]a | +7.3 ± 6.0 | +6.8 ± 4.9 | +5.8 ± 5.0 |
| DAYS 1 - 70b | MEAN±S.D. | +223.3± 18.0 | +224.3± 19.0 [ 29]a | +231.3± 18.8 | +222.6± 17.5 | +215.1± 19.3 |
| DAYS 1 - PRECOHABITATION c | MEAN±S.D. | +235.2± 20.9 | +239.0± 22.6 [ 29]a | +244.5± 20.6 | +233.4± 19.1 | +224.3± 21.0* |

DAY(S) = DAY(S) POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation or found dead.
b. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
c. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.
* Significantly different from the Group I value ($p \leq 0.05$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E4 (PAGE 1): MATERNAL BODY WEIGHTS - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | | N | 30 | 29 | 30 | 30 | 30 |
| PREGNANT | | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL BODY WEIGHT (G) | | | | | | | |
| DAY 0 | | MEAN±S.D. | 274.8 ± 20.9 | 275.4 ± 23.6 | 285.4 ± 17.6 | 275.0 ± 23.2 | 262.1 ± 23.2* |
| DAY 7 | | MEAN±S.D. | 304.0 ± 23.0 | 303.4 ± 25.5 | 312.2 ± 19.4 | 303.3 ± 24.3 | 287.4 ± 22.6* |
| DAY 10 | | MEAN±S.D. | 316.8 ± 23.9 | 317.0 ± 26.8 | 326.1 ± 20.2 | 314.0 ± 24.0 | 299.6 ± 23.2* |
| DAY 14 | | MEAN±S.D. | 333.9 ± 24.5 | 333.2 ± 28.4 | 343.1 ± 22.2 | 331.4 ± 24.6 | 316.1 ± 25.4* |
| DAY 18 | | MEAN±S.D. | 380.2 ± 29.6 | 380.8 ± 31.6 | 394.8 ± 27.7 | 380.6 ± 28.9 | 366.6 ± 28.9 |
| DAY 21 | | MEAN±S.D. | 417.9 ± 33.0 [ 27]a | 418.0 ± 32.9 [ 26]a | 427.8 ± 31.3 [ 20]a | 415.1 ± 31.1 [ 25]a | 399.2 ± 34.8 [ 24]a |

DAY = DAY OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dams that delivered.
* Significantly different from the Group I value ($p \leq 0.05$).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E5 (PAGE 1): MATERNAL BODY WEIGHT CHANGES - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 30 |
| PREGNANT | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 0 - 7 | MEAN±S.D. | +29.1 ± 5.8 | +28.0 ± 7.0 | +26.8 ± 6.4 | +28.4 ± 7.2 | +25.2 ± 6.3 |
| DAYS 7 - 10 | MEAN±S.D. | +12.8 ± 4.2 | +13.6 ± 6.7 | +13.9 ± 4.4 | +10.6 ± 3.8 | +12.2 ± 3.8 |
| DAYS 10 - 14 | MEAN±S.D. | +17.1 ± 5.3 | +16.2 ± 6.1 | +17.0 ± 5.6 | +17.5 ± 5.2 | +16.5 ± 4.4 |
| DAYS 14 - 18 | MEAN±S.D. | +46.2 ± 11.5 | +47.6 ± 10.2 | +51.7 ± 10.3 | +49.2 ± 11.6 | +50.6 ± 10.6 |
| DAYS 18 - 21 | MEAN±S.D. | +37.6 ± 9.2 [ 27]a | +38.1 ± 6.7 [ 26]a | +32.5 ± 6.2 [ 20]a | +35.9 ± 9.2 [ 25]a | +34.4 ± 10.9 [ 24]a |
| DAYS 0 - 21 | MEAN±S.D. | +142.8± 19.6 [ 27]a | +143.6± 17.9 [ 26]a | +141.5± 18.2 [ 20]a | +141.2± 16.8 [ 25]a | +138.4± 20.5 [ 24]a |

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dams that delivered.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E6 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | | N | 30 | 29 | 30 | 30 | 30 |
| PREGNANT | | N | 28 | 28 | 28 | 28 | 29 |
| DELIVERED A LITTER | | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL BODY WEIGHT (G) | | | | | | | |
| DAY 1 | | MEAN±S.D. | 313.6 ± 24.6 | 314.8 ± 25.8 | 325.5 ± 23.1 | 313.2 ± 23.4 | 302.0 ± 24.2 |
| DAY 5 | | MEAN±S.D. | 320.2 ± 25.2 | 321.7 ± 21.1 | 328.7 ± 20.8 | 317.8 ± 20.2 | 305.2 ± 23.0* |
| DAY 8 | | MEAN±S.D. | 328.8 ± 26.7 | 333.3 ± 21.6 | 338.8 ± 22.0 | 325.3 ± 23.0 | 309.9 ± 23.5** |
| DAY 11 | | MEAN±S.D. | 335.5 ± 25.8 | 340.9 ± 22.7 | 346.4 ± 18.1 | 336.0 ± 23.1 | 321.8 ± 24.7* |
| DAY 15 | | MEAN±S.D. | 336.9 ± 23.4 | 338.1 ± 21.9 | 343.3 ± 20.1 | 334.4 ± 19.8 | 323.6 ± 26.6* |
| DAY 22 | | MEAN±S.D. | 322.9 ± 23.4 | 321.7 ± 24.2 | 329.2 ± 21.5 | 325.1 ± 23.5 | 315.7 ± 20.9 |

DAY = DAY OF LACTATION
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E7 (PAGE 1): MATERNAL BODY WEIGHT CHANGES - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 30 | 29 | 30 | 30 | 30 |
| PREGNANT | N | 28 | 28 | 28 | 28 | 29 |
| DELIVERED A LITTER | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL BODY WEIGHT CHANGE (G) | | | | | | |
| DAYS 1 - 5 | MEAN±S.D. | +6.6 ± 9.8 | +7.0 ± 10.7 | +3.1 ± 10.0 | +4.7 ± 8.9 | +3.1 ± 11.0 |
| DAYS 5 - 8 | MEAN±S.D. | +8.5 ± 9.2 | +11.6 ± 7.1 | +10.2 ± 8.1 | +7.4 ± 9.9 | +4.7 ± 10.8 |
| DAYS 8 - 11 | MEAN±S.D. | +6.8 ± 16.4 | +7.6 ± 8.8 | +7.5 ± 13.9 | +10.7 ± 10.1 | +11.9 ± 11.9 |
| DAYS 11 - 15 | MEAN±S.D. | +1.4 ± 19.0 | -2.8 ± 13.4 | -3.0 ± 13.3 | -1.6 ± 14.6 | +1.9 ± 16.5 |
| DAYS 1 - 15 | MEAN±S.D. | +23.2 ± 14.2 | +23.3 ± 14.5 | +17.8 ± 16.5 | +21.2 ± 17.8 | +21.6 ± 14.2 |
| DAYS 15 - 22 | MEAN±S.D. | -14.0 ± 15.3 | -16.4 ± 13.1 | -14.1 ± 16.0 | -9.3 ± 15.4 | -8.0 ± 17.6 |
| DAYS 1 - 22 | MEAN±S.D. | +9.2 ± 18.9 | +6.9 ± 14.8 | +3.6 ± 23.2 | +11.9 ± 22.4 | +13.6 ± 19.0 |

DAYS = DAYS OF LACTATION

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TABLE E8 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - PRECOHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 60 | 59a | 59a | 59a | 55a |
| FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 10.1 ± 1.5 | 9.4 ± 1.2** | 10.0 ± 1.6 | 10.0 ± 1.7 | 9.0 ± 1.4** |
| DAYS 8 - 15 | MEAN±S.D. | 16.4 ± 2.0 | 15.0 ± 1.5** | 16.2 ± 1.9 | 15.8 ± 1.8 | 14.7 ± 1.5** [ 54]a |
| DAYS 15 - 22 | MEAN±S.D. | 19.0 ± 1.9 [ 58]a,b | 18.4 ± 1.4 [ 57]b | 19.1 ± 2.0 [ 57]b | 18.8 ± 2.0 | 18.0 ± 2.0** [ 52]a,b |
| DAYS 22 - 29 | MEAN±S.D. | 19.4 ± 2.4 [ 47]a | 19.0 ± 2.2 [ 53]a,b | 19.9 ± 2.7 [ 50]a,b | 19.6 ± 2.5 [ 46]a,b | 18.6 ± 1.8 [ 44]a,b |
| DAYS 29 - 36 | MEAN±S.D. | 20.0 ± 2.2 [ 30]a | 19.9 ± 3.2 [ 30]a,b | 20.5 ± 4.4 [ 30]a,b | 19.2 ± 1.7 [ 29]a,b | 18.8 ± 2.3 [ 29]a,b |
| DAYS 36 - 43 | MEAN±S.D. | 20.1 ± 2.5 [ 29]a,b | 19.6 ± 1.9 [ 28]a,b | 20.6 ± 3.0 [ 29]a,b | 20.2 ± 2.4 [ 30]a | 19.2 ± 1.9 [ 29]a,b |
| DAYS 43 - 50 | MEAN±S.D. | 21.6 ± 3.4 [ 28]a,b | 22.0 ± 4.1 [ 29]a,b | 22.3 ± 3.6 [ 29]a,b | 22.8 ± 5.2 [ 26]a,b | 22.2 ± 6.2 [ 26]a,b |
| DAYS 50 - 57 | MEAN±S.D. | 21.1 ± 2.9 [ 28]a,b | 20.2 ± 2.8 [ 28]a,b | 20.4 ± 2.0 [ 26]a,b | 20.9 ± 2.7 [ 27]a,b | 19.8 ± 2.7 [ 27]a,b |
| DAYS 57 - 64 | MEAN±S.D. | 20.6 ± 2.8 [ 29]a,b | 19.9 ± 2.6 [ 28]a,b | 21.0 ± 3.4 [ 28]a,b | 20.6 ± 2.8 [ 26]a,b | 19.1 ± 3.4 [ 28]a,b |
| DAYS 64 - 70c | MEAN±S.D. | 19.3 ± 1.9 [ 29]a,b | 19.7 ± 3.1 [ 28]a,b | 19.8 ± 2.1 [ 30]a | 19.6 ± 2.3 [ 29]a,b | 19.0 ± 2.8 [ 27]a,b |
| DAYS 1 - 70c | MEAN±S.D. | 18.6 ± 1.7 [ 29]a,b | 18.3 ± 1.4 [ 28]a,b | 18.9 ± 1.8 [ 30]a | 18.4 ± 1.6 [ 29]a,b | 17.7 ± 1.7 [ 27]a,b |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation or found dead.
b. Excludes values that were not recorded, as well as those associated with spillage, soiled or wet feed.
c. Last weekly value recorded before cohabitation.
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E9 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - PRECOHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 60 | 59a | 59a | 59a | 55a |
| FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 1 - 8 | MEAN±S.D. | 180.7 ± 22.3 | 177.5 ± 19.4 | 173.7 ± 18.8 | 174.2 ± 17.6 | 172.2 ± 16.7 |
| DAYS 8 - 15 | MEAN±S.D. | 180.6 ± 16.1 | 176.3 ± 16.5 | 174.6 ± 15.6 | 176.9 ± 17.3 | 174.2 ± 14.1 [ 54]a |
| DAYS 15 - 22 | MEAN±S.D. | 146.5 ± 13.1 [ 58]a,b | 150.1 ± 12.5 [ 57]b | 146.2 ± 14.2 [ 57]b | 148.1 ± 17.4 | 149.3 ± 16.4 [ 52]a,b |
| DAYS 22 - 29 | MEAN±S.D. | 119.5 ± 11.6 [ 47]a | 121.9 ± 15.5 [ 53]a,b | 120.1 ± 13.8 [ 50]a,b | 121.5 ± 15.0 [ 46]a,b | 121.9 ± 12.6 [ 44]a,b |
| DAYS 29 - 36 | MEAN±S.D. | 106.8 ± 9.1 [ 30]a | 110.4 ± 24.0 [ 30]a,b | 107.5 ± 24.7 [ 30]a,b | 103.1 ± 7.1 [ 29]a,b | 106.0 ± 12.2 [ 29]a,b |
| DAYS 36 - 43 | MEAN±S.D. | 96.0 ± 8.4 [ 29]a,b | 98.2 ± 16.3 [ 28]a,b | 96.2 ± 12.2 [ 29]a,b | 96.6 ± 9.4 [ 30]a | 96.7 ± 10.2 [ 29]a,b |
| DAYS 43 - 50 | MEAN±S.D. | 94.5 ± 12.1 [ 28]a,b | 101.5 ± 23.1 [ 29]a,b | 95.2 ± 16.2 [ 29]a,b | 99.6 ± 23.5 [ 26]a,b | 103.4 ± 31.6 [ 26]a,b |
| DAYS 50 - 57 | MEAN±S.D. | 86.9 ± 8.9 [ 28]a,b | 85.0 ± 10.9 [ 28]a,b | 82.0 ± 8.0 [ 26]a,b | 86.6 ± 14.3 [ 27]a,b | 86.2 ± 10.6 [ 27]a,b |
| DAYS 57 - 64 | MEAN±S.D. | 81.4 ± 8.8 [ 29]a,b | 79.7 ± 9.1 [ 28]a,b | 80.1 ± 11.4 [ 28]a,b | 80.6 ± 11.6 [ 26]a,b | 79.2 ± 13.2 [ 28]a,b |
| DAYS 64 - 70c | MEAN±S.D. | 73.4 ± 5.6 [ 29]a,b | 76.2 ± 13.3 [ 28]a,b | 73.1 ± 6.2 [ 30]a | 74.5 ± 7.4 [ 29]a,b | 76.2 ± 11.5 [ 27]a,b |
| DAYS 1 - 70c | MEAN±S.D. | 103.7 ± 6.0 [ 29]a,b | 104.5 ± 6.0 [ 28]a,b | 102.6 ± 7.7 [ 30]a | 103.0 ± 7.3 [ 29]a,b | 104.6 ± 9.5 [ 27]a,b |

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were sacrificed following sexual maturation or found dead.
b. Excludes values that were not recorded, as well as those associated with spillage, soiled or wet feed.
c. Last weekly value recorded before cohabitation.

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TABLE E10 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29 | 29 | 30 | 30 | 30 |
| PREGNANT | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 0 - 7 | MEAN±S.D. | 22.8 ± 2.5 [ 27]a | 22.7 ± 3.0 [ 25]a | 22.2 ± 2.7 [ 25]a | 22.3 ± 2.3 [ 27]a | 21.0 ± 2.6 [ 27]a |
| DAYS 7 - 10 | MEAN±S.D. | 24.2 ± 3.8 [ 27]a | 24.1 ± 3.6 | 24.1 ± 2.9 [ 27]a | 22.8 ± 2.5 [ 27]a | 22.0 ± 2.7* [ 28]a |
| DAYS 10 - 14 | MEAN±S.D. | 24.4 ± 3.0 | 23.7 ± 3.3 | 24.2 ± 2.9 | 23.4 ± 2.1 | 22.8 ± 2.6 |
| DAYS 14 - 18 | MEAN±S.D. | 24.1 ± 3.0 | 24.0 ± 2.7 | 25.1 ± 2.6 | 23.9 ± 2.4 | 24.2 ± 2.6 |
| DAYS 18 - 21 | MEAN±S.D. | 23.0 ± 2.8 | 23.1 ± 2.8 [ 27]a | 23.7 ± 2.7 [ 25]a | 22.5 ± 2.6 [ 27]a | 23.2 ± 2.3 [ 26]a |
| DAYS 0 - 21 | MEAN±S.D. | 23.7 ± 2.7 | 23.2 ± 2.5 [ 27]a | 23.7 ± 2.4 [ 25]a | 23.0 ± 1.9 [ 27]a | 22.4 ± 2.2 [ 26]a |

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were not recorded as well as those associated with spillage or wet feed.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE E11 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 29 | 29 | 30 | 30 | 30 |
| PREGNANT | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 0 - 7 | MEAN±S.D. | 79.3 ± 7.3 [ 27]a | 78.3 ± 8.1 [ 25]a | 74.3 ± 7.9 [ 25]a | 76.9 ± 7.9 [ 27]a | 76.6 ± 9.8 [ 27]a |
| DAYS 7 - 10 | MEAN±S.D. | 78.3 ± 10.8 [ 27]a | 77.6 ± 7.6 | 75.4 ± 6.9 [ 27]a | 74.0 ± 7.8 [ 27]a | 74.4 ± 6.8 [ 28]a |
| DAYS 10 - 14 | MEAN±S.D. | 74.8 ± 6.9 | 72.7 ± 6.5 | 72.3 ± 6.6 | 72.7 ± 6.1 | 74.2 ± 7.7 |
| DAYS 14 - 18 | MEAN±S.D. | 67.4 ± 6.3 | 67.2 ± 5.3 | 68.2 ± 5.4 | 67.2 ± 6.3 | 71.0 ± 7.3 |
| DAYS 18 - 21 | MEAN±S.D. | 57.8 ± 6.4 [ 27]a,b | 58.4 ± 6.8 [ 26]a,b | 58.3 ± 7.0 [ 20]a,b | 56.7 ± 7.5 [ 25]a,b | 61.1 ± 5.9 [ 24]a,b |
| DAYS 0 - 21 | MEAN±S.D. | 70.0 ± 6.0 [ 27]a,b | 68.8 ± 5.0 [ 26]a,b | 68.0 ± 5.8 [ 20]a,b | 68.8 ± 5.8 [ 25]a,b | 70.3 ± 6.5 [ 24]a,b |

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were not recorded as well as those associated with spillage or wet feed.
b. Excludes values for dams that delivered.

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TABLE E12 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 28 | 28 | 28 | 28 | 29 |
| PREGNANT | N | 28 | 28 | 28 | 28 | 29 |
| DELIVERED A LITTER | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL FEED CONSUMPTION (G/DAY) | | | | | | |
| DAYS 1 - 5 | MEAN±S.D. | 30.3 ± 6.8 [ 27]a | 30.6 ± 5.9 | 28.6 ± 4.2 [ 27]a | 28.9 ± 5.3 [ 26]a | 29.2 ± 4.9 |
| DAYS 5 - 8 | MEAN±S.D. | 48.1 ± 8.3 | 48.5 ± 7.0 | 46.2 ± 5.8 | 46.7 ± 8.7 | 44.6 ± 6.7 |
| DAYS 8 - 11 | MEAN±S.D. | 54.0 ± 8.5 | 55.4 ± 7.2 | 55.2 ± 6.2 [ 27]a | 52.3 ± 8.1 | 50.4 ± 7.7 |
| DAYS 11 - 15b | MEAN±S.D. | 59.0 ± 8.5 [ 27]a | 57.5 ± 9.5 | 57.3 ± 7.2 | 56.3 ± 12.4 | 52.2 ± 9.5 |
| DAYS 1 - 15b | MEAN±S.D. | 48.0 ± 6.1 [ 27]a | 47.4 ± 5.3 | 46.5 ± 4.4 | 46.0 ± 6.7 | 43.6 ± 5.5** |

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E13 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 28 | 28 | 28 | 28 | 29 |
| PREGNANT | N | 28 | 28 | 28 | 28 | 29 |
| DELIVERED A LITTER | N | 28 | 28 | 28 | 28 | 29 |
| MATERNAL FEED CONSUMPTION (G/KG/DAY) | | | | | | |
| DAYS 1 - 5 | MEAN±S.D. | 95.7 ± 18.4 [ 27]a | 96.9 ± 21.0 | 87.8 ± 15.3 [ 27]a | 92.6 ± 18.7 [ 26]a | 96.5 ± 16.9 |
| DAYS 5 - 8 | MEAN±S.D. | 147.7 ± 18.5 | 148.4 ± 21.3 | 138.5 ± 15.9 | 145.3 ± 26.9 | 144.8 ± 18.2 |
| DAYS 8 - 11 | MEAN±S.D. | 162.7 ± 23.8 | 164.6 ± 21.0 | 161.5 ± 21.1 [ 27]a | 158.7 ± 26.1 | 159.5 ± 21.8 |
| DAYS 11 - 15b | MEAN±S.D. | 174.7 ± 22.6 [ 27]a | 169.1 ± 25.3 | 166.2 ± 19.3 | 168.2 ± 37.1 | 161.7 ± 25.9 |
| DAYS 1 - 15b | MEAN±S.D. | 146.1 ± 15.4 [ 27]a | 144.1 ± 16.5 | 138.5 ± 15.0 | 141.9 ± 21.8 | 139.7 ± 15.6 |

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.

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TABLE E14 (PAGE 1): SEXUAL MATURATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| FEMALE RATS | N | 60 | 60 | 60 | 60 | 60 |
| INCLUDED IN ANALYSES | N | 60 | 58a,b | 58a,b | 58a,b | 54a |
| VAGINAL PATENCY c | MEAN±S.D. | 34.9 ± 2.1 | 35.5 ± 2.3 | 34.1 ± 2.6 | 34.8 ± 2.1 | 36.6 ± 2.4** |

a. Excludes values for rats that were found dead.
b. Excludes values for rats in which testing was discontinued before the rat became sexually mature.
c. Average day postpartum that the vagina was observed to be patent.
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E15 (PAGE 1): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| ESTROUS CYCLING OBSERVATIONS | | | | | | |
| PRECOHABITATION ESTROUS CYCLING | | | | | | |
| RATS EVALUATED | N | 30 | 29a | 30 | 30 | 30 |
| ESTROUS STAGES/ 21 DAYS | MEAN±S.D. | 4.7 ± 0.9 | 5.0 ± 0.9 | 5.0 ± 0.8 | 5.0 ± 1.1 | 5.4 ± 0.7** |
| RATS WITH 6 OR MORE CONSECUTIVE DAYS OF DIESTRUS | N | 1 | 0 | 0 | 1 | 0 |
| RATS WITH 6 OR MORE CONSECUTIVE DAYS OF ESTRUS | N | 0 | 0 | 0 | 0 | 0 |
| ESTROUS STAGE AT SACRIFICE | | | | | | |
| RATS EVALUATED | N | 30 | 29 | 30 | 30 | 30 |
| DIESTRUS | N | 18 | 15 | 20 | 21 | 23 |
| PROESTRUS | N | 2 | 1 | 3 | 2 | 2 |
| ESTRUS | N | 6 | 10 | 5 | 6 | 4 |
| METESTRUS | N | 4 | 3 | 2 | 1 | 1 |

a. Excludes rat 1373, which was found dead prior to cohabitation.
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E15 (PAGE 2): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS IN COHABITATION | N | 30 | 29a | 30 | 30 | 30 |
| DAYS IN COHABITATION b | MEAN±S.D. | 3.0 ± 2.4 | 3.0 ± 1.1 | 2.4 ± 1.2 | 2.7 ± 1.6 | 2.5 ± 1.2 |
| RATS THAT MATED | N(%) | 29( 96.7) | 29(100.0) | 30(100.0) | 30(100.0) | 30(100.0) |
| FERTILITY INDEX c | N/N | 28/ 29 | 28/ 29 | 28/ 30 | 28/ 30 | 29/ 30 |
| | (%) | ( 96.6) | ( 96.6) | ( 93.3) | ( 93.3) | ( 96.7) |
| RATS WITH CONFIRMED MATING DATES | N | 29 | 29 | 30 | 30 | 30 |
| RATS MATING d DAYS 1-7 | N(%) | 29(100.0) | 29(100.0) | 30(100.0) | 30(100.0) | 30(100.0) |
| RATS PREGNANT/RATS IN COHABITATION | N/N | 28/ 30 | 28/ 29 | 28/ 30 | 28/ 30 | 29/ 30 |
| | (%) | ( 93.3) | ( 96.6) | ( 93.3) | ( 93.3) | ( 96.7) |

a. Excludes rat 1373, which was found dead prior to cohabitation.
b. Restricted to rats with a confirmed mating date and rats that did not mate.
c. Number of pregnancies/number of rats that mated.
d. Restricted to rats with a confirmed mating date.



ARGUS 418-020

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E16 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS
(See footnotes on the last page of this table.)

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS EXAMINED a | N | 60 | 60 | 60 | 60 | 60 |
| FOUND DEAD | N | 0 | 2b,c | 1d | 1e | 6f-k |
| INCLUDED IN ANALYSES | N | 60 | 59 1 | 60 | 60 | 60 |
| APPEARED NORMAL | N | 59 | 57b | 59d | 60e | 59f-k |
| LIVER: | | | | | | |
| LEFT LATERAL LOBE, FIRM MASS CUT SURFACE REVEALED YELLOW AND DARK RED AREAS | N | 0 | 1 | 0 | 0 | 0 |
| CAUDATE LOBE ADHERED TO LEFT LATERAL LOBE | N | 0 | 1 | 0 | 0 | 0 |
| KIDNEYS: | | | | | | |
| BILATERAL, PELVIS, SLIGHT DILATION | N | 0 | 0 | 1 | 0 | 0 |
| RIGHT, PELVIS, MODERATE DILATION | N | 0 | 0 | 0 | 0 | 1 |
| URINARY BLADDER: | | | | | | |
| WALLS THICKENED | N | 0 | 0 | 0 | 0 | 1 |
| URETER: | | | | | | |
| BILATERAL, MODERATE DILATION | N | 0 | 0 | 0 | 0 | 1 |
| ONE CALCULI LOCATED AT THE CAUDAL END | N | 0 | 0 | 0 | 0 | 1 |

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TABLE E16 (PAGE 2): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS EXAMINED a | N | 60 | 60 | 60 | 60 | 60 |
| FOUND DEAD | N | 0 | 2b,c | 1d | 1e | 6f-k |
| INCLUDED IN ANALYSES | N | 60 | 59 l | 60 | 60 | 60 |
| STOMACH: | | | | | | |
| DISTENDED | N | 0 | 1c | 0 | 0 | 0 |
| INTESTINES: | | | | | | |
| DISTENDED | N | 0 | 1c | 0 | 0 | 0 |
| LUNGS: | | | | | | |
| DORSAL SURFACE, RIGHT APICAL LOBE, DEPRESSED WHITE AREA | N | 0 | 1c | 0 | 0 | 0 |
| SPLEEN: | | | | | | |
| SMALL | N | 1 | 0 | 0 | 0 | 0 |

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.
b. Rat 1365 was found dead on day 4 postweaning.
c. Rat 1373 was found dead on day 51 postweaning.
d. Rat 1432 was found dead on day 7 postweaning.
e. Rat 1484 was found dead on day 3 postweaning.
f. Rat 1549 was found dead on day 8 postweaning.
g. Rat 1559 was found dead on day 6 postweaning.
h. Rat 1562 was found dead on day 2 postweaning.
i. Rat 1563 was found dead on day 2 postweaning.
j. Rat 1574 was found dead on day 3 postweaning.
k. Rat 1575 was found dead on day 3 postweaning.
l. Excludes rat 1362, which did not have necropsy observations recorded.

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TABLE E17 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 28 | 28 | 28 | 28 | 29 |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 322.9 ± 23.4 | 321.7 ± 24.2 | 329.2 ± 21.5 | 325.1 ± 23.5 | 315.7 ± 20.9 |
| PITUITARY | MEAN±S.D. | 0.017 ± 0.004 | 0.016 ± 0.003 | 0.015 ± 0.003* | 0.015 ± 0.002* | 0.015 ± 0.003** |
| BRAIN | MEAN±S.D. | 2.07 ± 0.09 | 2.09 ± 0.12 | 2.08 ± 0.10 | 2.10 ± 0.12 | 2.07 ± 0.10 |
| LIVER | MEAN±S.D. | 16.57 ± 1.58 | 15.96 ± 1.76 | 16.41 ± 1.40 | 16.68 ± 1.70 | 16.78 ± 1.36 |
| KIDNEY LEFT | MEAN±S.D. | 1.36 ± 0.13 | 1.39 ± 0.14 | 1.41 ± 0.09 [ 27]a | 1.38 ± 0.14 | 1.34 ± 0.18 |
| KIDNEY RIGHT | MEAN±S.D. | 1.38 ± 0.12 | 1.41 ± 0.14 | 1.42 ± 0.10 | 1.42 ± 0.16 | 1.40 ± 0.20 |
| ADRENAL LEFT | MEAN±S.D. | 0.043 ± 0.008 | 0.044 ± 0.007 | 0.044 ± 0.006 | 0.046 ± 0.006 | 0.045 ± 0.008 |
| ADRENAL RIGHT | MEAN±S.D. | 0.040 ± 0.007 | 0.041 ± 0.007 | 0.041 ± 0.006 | 0.042 ± 0.006 | 0.041 ± 0.006 |
| SPLEEN | MEAN±S.D. | 0.60 ± 0.07 | 0.61 ± 0.12 | 0.60 ± 0.06 | 0.59 ± 0.09 | 0.60 ± 0.11 |
| THYMUS | MEAN±S.D. | 0.20 ± 0.06 | 0.19 ± 0.05 | 0.21 ± 0.07 | 0.20 ± 0.08 | 0.22 ± 0.09 |
| OVARY LEFT | MEAN±S.D. | 0.050 ± 0.012 | 0.054 ± 0.012 | 0.051 ± 0.012 | 0.049 ± 0.010 | 0.052 ± 0.013 |
| OVARY RIGHT | MEAN±S.D. | 0.054 ± 0.012 | 0.053 ± 0.012 | 0.049 ± 0.010 | 0.051 ± 0.011 | 0.052 ± 0.013 |
| UTERUS NON-GRAVID | MEAN±S.D. | 0.54 ± 0.16 | 0.56 ± 0.16 | 0.57 ± 0.18 | 0.56 ± 0.12 | 0.54 ± 0.18 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Excludes a value that appeared incorrectly recorded.
* Significantly different from the Group I value ($p \leq 0.05$).
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E18 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 28 | 28 | 28 | 28 | 29 |
| TERMINAL BODY WEIGHT | MEAN±S.D. | 322.9 ± 23.4 | 321.7 ± 24.2 | 329.2 ± 21.5 | 325.1 ± 23.5 | 315.7 ± 20.9 |
| PITUITARY a | MEAN±S.D. | 5.462 ± 1.605 | 4.976 ± 0.861 | 4.648 ± 0.860* | 4.715 ± 0.898* | 4.749 ± 1.028* |
| BRAIN | MEAN±S.D. | 0.644 ± 0.058 | 0.653 ± 0.054 | 0.632 ± 0.045 | 0.648 ± 0.063 | 0.659 ± 0.044 |
| LIVER | MEAN±S.D. | 5.130 ± 0.305 | 4.958 ± 0.340 | 4.991 ± 0.377 | 5.136 ± 0.409 | 5.326 ± 0.455 |
| KIDNEY LEFT | MEAN±S.D. | 0.421 ± 0.038 | 0.432 ± 0.040 | 0.426 ± 0.036 [ 27]b | 0.426 ± 0.038 | 0.426 ± 0.055 |
| KIDNEY RIGHT | MEAN±S.D. | 0.427 ± 0.030 | 0.438 ± 0.037 | 0.432 ± 0.034 | 0.435 ± 0.046 | 0.444 ± 0.058 |
| ADRENAL LEFT a | MEAN±S.D. | 13.285 ± 2.147 | 13.551 ± 1.994 | 13.581 ± 2.048 | 14.046 ± 1.831 | 14.209 ± 2.762 |
| ADRENAL RIGHT a | MEAN±S.D. | 12.301 ± 1.979 | 12.743 ± 2.192 | 12.600 ± 1.834 | 12.881 ± 1.981 | 13.191 ± 2.177 |
| SPLEEN | MEAN±S.D. | 0.184 ± 0.021 | 0.189 ± 0.041 | 0.184 ± 0.019 | 0.183 ± 0.027 | 0.191 ± 0.034 |
| THYMUS | MEAN±S.D. | 0.062 ± 0.020 | 0.058 ± 0.017 | 0.064 ± 0.023 | 0.061 ± 0.025 | 0.070 ± 0.029 |
| OVARY LEFT a | MEAN±S.D. | 15.652 ± 3.706 | 16.844 ± 3.672 | 15.616 ± 3.778 | 15.235 ± 3.166 | 16.364 ± 4.200 |
| OVARY RIGHT a | MEAN±S.D. | 16.754 ± 4.015 | 16.742 ± 4.266 | 14.955 ± 3.246 | 15.235 ± 3.016 | 16.496 ± 4.132 |
| UTERUS NON-GRAVID | MEAN±S.D. | 0.167 ± 0.050 | 0.176 ± 0.058 | 0.175 ± 0.059 | 0.173 ± 0.044 | 0.171 ± 0.058 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.
b. Excludes a value that appeared incorrectly recorded.
* Significantly different from the Group I value ($p \leq 0.05$).

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TABLE E19 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS TESTED | N | 28 | 28 | 28 | 28 | 29 |
| BRAIN WEIGHT | MEAN±S.D. | 2.07 ± 0.09 | 2.09 ± 0.12 | 2.08 ± 0.10 | 2.10 ± 0.12 | 2.07 ± 0.10 |
| PITUITARY | MEAN±S.D. | 0.84 ± 0.21 | 0.76 ± 0.14 | 0.74 ± 0.14* | 0.72 ± 0.12* | 0.72 ± 0.16** |
| LIVER | MEAN±S.D. | 802.60 ± 85.59 | 764.62 ± 81.65 | 790.69 ± 67.15 | 798.38 ± 91.68 | 810.62 ± 71.58 |
| KIDNEY LEFT | MEAN±S.D. | 65.77 ± 6.04 | 66.51 ± 6.49 | 67.59 ± 5.25 [ 27]a | 66.10 ± 6.57 | 64.85 ± 8.48 |
| KIDNEY RIGHT | MEAN±S.D. | 66.76 ± 6.09 | 67.36 ± 5.83 | 66.44 ± 6.23 | 67.61 ± 7.12 | 67.57 ± 9.54 |
| ADRENAL LEFT | MEAN±S.D. | 2.08 ± 0.38 | 2.08 ± 0.32 | 2.14 ± 0.30 | 2.18 ± 0.30 | 2.16 ± 0.39 |
| ADRENAL RIGHT | MEAN±S.D. | 1.93 ± 0.37 | 1.96 ± 0.34 | 2.00 ± 0.29 | 2.00 ± 0.32 | 2.00 ± 0.30 |
| SPLEEN | MEAN±S.D. | 28.89 ± 3.82 | 29.10 ± 5.58 | 29.08 ± 2.59 | 28.35 ± 4.31 | 29.28 ± 5.67 |
| THYMUS | MEAN±S.D. | 9.65 ± 2.74 | 9.10 ± 2.84 | 10.23 ± 3.44 | 9.69 ± 4.04 | 10.69 ± 4.48 |
| OVARY LEFT | MEAN±S.D. | 2.43 ± 0.56 | 2.58 ± 0.52 | 2.46 ± 0.57 | 2.36 ± 0.50 | 2.48 ± 0.63 |
| OVARY RIGHT | MEAN±S.D. | 2.60 ± 0.59 | 2.56 ± 0.58 | 2.37 ± 0.52 | 2.44 ± 0.54 | 2.50 ± 0.62 |
| UTERUS NON-GRAVID | MEAN±S.D. | 25.95 ± 7.78 | 27.06 ± 7.66 | 27.58 ± 8.91 | 26.76 ± 6.12 | 26.02 ± 8.40 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Excludes a value that appeared incorrectly recorded.

* Significantly different from the Group I value ($p \leq 0.05$).

** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E20 (PAGE 1): NATURAL DELIVERY OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| RATS ASSIGNED TO NATURAL DELIVERY | N | 28 | 28 | 28 | 28 | 29 |
| PREGNANT | N | 28 | 28 | 28 | 28 | 29 |
| DELIVERED A LITTER | N(%) | 28(100.0) | 28(100.0) | 28(100.0) | 28(100.0) | 29(100.0) |
| DURATION OF GESTATION a | MEAN±S.D. | 22.8 ± 0.4 | 22.6 ± 0.6 | 22.7 ± 0.5 | 22.8 ± 0.6 | 22.7 ± 0.5 |
| IMPLANTATION SITES | N | 414 | 443 | 412 | 419 | 420 |
| PER DELIVERED LITTER | MEAN±S.D. | 14.8 ± 3.0 | 15.8 ± 2.1 | 14.7 ± 2.8 | 15.0 ± 2.9 | 14.5 ± 2.9 |
| DAMS WITH STILLBORN PUPS | N(%) | 3( 10.7) | 4( 14.3) | 3( 10.7) | 5( 18.5) | 2( 7.1) |
| DAMS WITH NO LIVEBORN PUPS | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) |
| GESTATION INDEX b | % | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | N/N | 28/ 28 | 28/ 28 | 28/ 28 | 27/ 27 | 28/ 28 |
| DAMS WITH ALL PUPS DYING DAYS 1-4 POSTPARTUM | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) |
| DAMS WITH ALL PUPS DYING DAYS 5-21 POSTPARTUM | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 0( 0.0) |

a. Calculated as the time (in days) elapsed between confirmed mating (arbitrarily defined as day 0) and the time (in days) the first pup was delivered.
b. Number of rats with live offspring/number of pregnant rats.

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TABLE E21 (PAGE 1): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F2 GENERATION PUPS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS | N | 28 | 28 | 28 | 28 | 29 |
| PUPS DELIVERED (TOTAL) | N | 386 | 388 | 394 | 385 | 389 |
| | MEAN±S.D. | 13.8 ± 2.9 | 13.8 ± 2.5 | 14.1 ± 3.0 | 13.8 ± 3.1 | 13.4 ± 2.8 |
| LIVEBORN | MEAN±S.D. | 13.6 ± 2.9 | 13.7 ± 2.4 | 13.8 ± 3.0 | 13.5 ± 3.1 | 13.3 ± 2.8 |
| | N(%) | 380( 98.4) | 383( 98.7) | 388( 98.5) | 378( 98.2) | 387( 99.5) |
| STILLBORN | MEAN±S.D. | 0.2 ± 0.5 | 0.2 ± 0.5 | 0.2 ± 0.6 | 0.2 ± 0.5 | 0.1 ± 0.2 |
| | N(%) | 5( 1.3) | 5( 1.3) | 6( 1.5) | 6( 1.6) | 2( 0.5) |
| UNKNOWN VITAL STATUS | N | 1 | 0 | 0 | 1 | 0 |
| PUPS FOUND DEAD OR PRESUMED CANNIBALIZED | | | | | | |
| DAY 1 | N/N(%) | 0/380( 0.0) | 0/383( 0.0) | 5/388( 1.3)** | 4/378( 1.0)** | 1/387( 0.2) |
| DAYS 2- 5 | N/N(%) | 2/380( 0.5) | 5/383( 1.3) | 5/383( 1.3) | 3/374( 0.8) | 3/386( 0.8) |
| DAYS 6- 8 | N/N(%) | 0/378( 0.0) | 1/378( 0.3) | 5/378( 1.3) | 1/371( 0.3) | 4/383( 1.0) |
| DAYS 9-15 | N/N(%) | 3/378( 0.8) | 2/377( 0.5) | 0/373( 0.0) | 1/370( 0.3) | 0/379( 0.0) |
| DAYS 16-22 | N/N(%) | 2/375( 0.5) | 1/375( 0.3) | 0/373( 0.0) | 1/369( 0.3) | 1/379( 0.3) |
| VIABILITY INDEX a | % | 99.5 | 98.7 | 97.4 | 98.1 | 99.0 |
| | N/N | 378/380 | 378/383 | 378/388 | 371/378 | 383/387 |
| LACTATION INDEX b | % | 98.7 | 98.9 | 98.7 | 99.2 | 98.7 |
| | N/N | 373/378 | 374/378 | 373/378 | 368/371 | 378/383 |

DAY(S) = DAY(S) POSTPARTUM
a. Number of live pups on day 5 postpartum/number of liveborn pups on day 1 postpartum.
b. Number of live pups on day 22 postpartum/number of live pups on day 5 postpartum.
** Significantly different from the Group I value ($p \leq 0.01$).

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TABLE E21 (PAGE 2): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F2 GENERATION PUPS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS | | N | 28 | 28 | 28 | 28 | 29 |
| SURVIVING PUPS/LITTER a | | | | | | | |
| DAY 1b | | MEAN±S.D. | 13.6 ± 2.9 | 13.7 ± 2.4 | 13.8 ± 3.0 | 13.5 ± 3.1 | 13.3 ± 2.8 |
| DAY 5 | | MEAN±S.D. | 13.5 ± 2.8 | 13.5 ± 2.3 | 13.5 ± 2.9 | 13.2 ± 3.0 | 13.2 ± 2.8 |
| DAY 8 | | MEAN±S.D. | 13.5 ± 2.8 | 13.5 ± 2.3 | 13.3 ± 2.9 | 13.2 ± 2.9 | 13.1 ± 2.8 |
| DAY 15 | | MEAN±S.D. | 13.4 ± 2.8 | 13.4 ± 2.2 | 13.3 ± 2.9 | 13.2 ± 2.9 | 13.1 ± 2.8 |
| DAY 22 | | MEAN±S.D. | 13.3 ± 2.7 | 13.4 ± 2.2 | 13.3 ± 2.9 | 13.1 ± 2.9 | 13.0 ± 2.7 |
| PERCENT MALE PUPS PER NUMBER OF PUPS SEXED | | | | | | | |
| DAY 1b | | MEAN±S.D. | 50.2 ± 11.8 | 51.9 ± 11.2 | 51.5 ± 13.1 | 55.6 ± 15.7 | 47.3 ± 13.5 |
| DAY 5 | | MEAN±S.D. | 49.9 ± 12.0 | 52.2 ± 11.5 | 51.7 ± 13.7 | 55.6 ± 15.1 | 47.3 ± 13.5 |
| DAY 8 | | MEAN±S.D. | 49.9 ± 12.0 | 52.1 ± 11.5 | 52.1 ± 13.7 | 55.7 ± 15.0 | 47.0 ± 13.3 |
| DAY 15 | | MEAN±S.D. | 49.8 ± 11.8 | 52.4 ± 11.6 | 52.1 ± 13.7 | 55.8 ± 15.0 | 47.0 ± 13.3 |
| DAY 22 | | MEAN±S.D. | 50.0 ± 11.7 | 52.5 ± 11.8 | 52.1 ± 13.7 | 55.9 ± 14.9 | 47.1 ± 13.3 |

DAY = DAY POSTPARTUM
a. Average number of live pups per litter, including litters with no surviving pups.
b. Includes pups born alive, found dead day 1 postpartum.

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TABLE E21 (PAGE 3): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F2 GENERATION PUPS

| DOSAGE GROUP | | | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | | 0 | 1 | 3 | 10 | 30 |
| DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS | | N | 28 | 28 | 28 | 28 | 29 |
| LIVE LITTER SIZE AT WEIGHING | | | | | | | |
| DAY 1 | | MEAN±S.D. | 13.6 ± 2.9 | 13.7 ± 2.4 | 13.7 ± 2.9 | 13.4 ± 3.0 | 13.3 ± 2.8 |
| DAY 5 | | MEAN±S.D. | 13.5 ± 2.8 | 13.5 ± 2.3 | 13.5 ± 2.9 | 13.2 ± 3.0 | 13.2 ± 2.8 |
| DAY 8 | | MEAN±S.D. | 13.5 ± 2.8 | 13.5 ± 2.3 | 13.3 ± 2.9 | 13.2 ± 2.9 | 13.1 ± 2.8 |
| DAY 15 | | MEAN±S.D. | 13.4 ± 2.8 | 13.4 ± 2.2 | 13.3 ± 2.9 | 13.2 ± 2.9 | 13.1 ± 2.8 |
| DAY 22 | | MEAN±S.D. | 13.3 ± 2.7 | 13.4 ± 2.2 | 13.3 ± 2.9 | 13.1 ± 2.9 | 13.0 ± 2.7 |
| PUP WEIGHT/LITTER (GRAMS) | | | | | | | |
| DAY 1 | | MEAN±S.D. | 6.5 ± 0.5 | 6.3 ± 0.5 | 6.4 ± 0.7 | 6.4 ± 0.7 | 6.0 ± 0.5 |
| DAY 5 | | MEAN±S.D. | 10.2 ± 1.2 | 10.0 ± 1.2 | 10.1 ± 1.6 | 10.2 ± 1.5 | 9.6 ± 1.2 |
| DAY 8 | | MEAN±S.D. | 14.5 ± 2.1 | 14.4 ± 1.8 | 14.3 ± 2.3 | 14.3 ± 2.3 | 13.5 ± 2.0 |
| DAY 15 | | MEAN±S.D. | 25.4 ± 4.1 | 25.3 ± 3.4 | 25.8 ± 4.4 | 24.8 ± 3.7 | 23.2 ± 3.7 |
| DAY 22 | | MEAN±S.D. | 38.7 ± 7.1 | 38.9 ± 5.4 | 39.6 ± 7.1 | 39.1 ± 6.6 | 36.5 ± 6.7 |

DAY = DAY POSTPARTUM

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TABLE E22 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - SUMMARY - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED (N) | 28 | 28 | 28 | 28 | 29 |
| TRANSIENT CLINICAL OBSERVATIONS: a | TOTAL FREQUENCY (DAYS X PUPS)/LITTERS WITH OBSERVATIONS | | | | |
| COLD TO TOUCH | 2/ 1 | 5/ 1 | 1/ 1 | 1/ 1 | 3/ 3 |
| TAIL: ABRASION | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 10/ 2 |
| NO TAIL PRESENT | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 22/ 1 |
| TIP OF TAIL MISSING | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 12/ 1 |
| TAIL: SCAB | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 9/ 1 |
| MOUTH: MASS | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 8/ 1 |
| BACK: ABRASION | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 7/ 1 |
| BACK: SCAB | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 4/ 1 |
| PALE IN APPEARANCE | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 3/ 1 |
| BASE OF TAIL: ABRASION | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 3/ 1 |
| TIP OF TAIL BLACK | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 2/ 1 |
| EMACIATION | 1/ 1 | 0/ 0 | 0/ 0 | 1/ 1 | 1/ 1 |
| DOMED HEAD | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 |
| DEHYDRATION | 34/ 3 | 1/ 1 | 0/ 0 | 2/ 2 | 0/ 0 |
| TAIL BENT | 0/ 0 | 0/ 0 | 0/ 0 | 22/ 1 | 0/ 0 |

N/N = TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS.
a. Tabulation restricted to adverse observations; all other pups appeared normal.

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TABLE E22 (PAGE 2): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - SUMMARY - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP | I | II | III | IV | V |
|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED (N) | 28 | 28 | 28 | 28 | 29 |
| TRANSIENT CLINICAL OBSERVATIONS: a | TOTAL FREQUENCY (DAYS X PUPS)/LITTERS WITH OBSERVATIONS | | | | |
| RIGHT EYE: NOT PRESENT | 0/ 0 | 0/ 0 | 0/ 0 | 3/ 1 | 0/ 0 |
| THREAD-LIKE TAIL | 0/ 0 | 22/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| NO ANAL OPENING PRESENT | 0/ 0 | 1/ 1 | 0/ 0 | 0/ 0 | 0/ 0 |
| UNGROOMED COAT | 16/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| NO MILK PRESENT IN STOMACH | 1/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

N/N = TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS.
a. Tabulation restricted to adverse observations; all other pups appeared normal.

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TABLE E23 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 28 | 28 | 28 | 28 | 29 |
| TOTAL PUPS STILLBORN OR FOUND DEAD a | | 3 | 6 | 10 | 10 | 6 |
| STILLBORN | N | 1 | 3 | 4 | 6 | 2 |
| FOUND DEAD | N | 2 | 3 | 6 | 4 | 4 |
| NO MILK IN STOMACH b | N(%) | 1( 50.0) | 3(100.0) | 5( 83.3) | 3( 75.0) | 3( 75.0) |
| PUPS SACRIFICED AND NECROPSIED ON DAY 22 POSTPARTUM | | | | | | |
| LITTERS EVALUATED | N | 28 | 28 | 28 | 28 | 29 |
| PUPS EVALUATED | N | 168 | 168 | 167 | 164 | 170 |
| APPEARED NORMAL | | | | | | |
| LITTER INCIDENCE | N(%) | 27( 96.4) | 27( 96.4) | 26( 92.8) | 27( 96.4) | 29(100.0) |
| PUP INCIDENCE | N(%) | 167( 99.4) | 167( 99.4) | 165( 98.8) | 163( 99.4) | 170(100.0) |
| KIDNEYS: PELVIS SLIGHT OR MODERATE DILATION | | | | | | |
| LITTER INCIDENCE | N(%) | 1( 3.6) | 1( 3.6) | 2( 7.1) | 0( 0.0) | 0( 0.0) |
| PUP INCIDENCE | N(%) | 1( 0.6) | 1( 0.6) | 2( 1.2) | 0( 0.0) | 0( 0.0) |
| BRAIN: THIRD AND LATERAL VENTRICLES, MARKED DILATION | | | | | | |
| LITTER INCIDENCE | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 1( 3.6) | 0( 0.0) |
| PUP INCIDENCE | N(%) | 0( 0.0) | 0( 0.0) | 0( 0.0) | 1( 0.6) | 0( 0.0) |

a. Restricted to pups in which complete necropsies were performed. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation.
b. Analysis restricted to pups found dead and necropsied.

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TABLE E24 (PAGE 1): PUP ORGAN WEIGHTS - SUMMARY - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 28 | 28 | 28 | 28 | 29 |
| TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 39.10 ± 7.23 | 39.02 ± 5.91 | 39.70 ± 7.51 [ 27]a | 40.06 ± 6.88 | 37.02 ± 6.63 [ 28]a |
| MALE PUPS | MEAN±S.D. | 40.01 ± 7.43 | 39.73 ± 6.39 | 39.95 ± 8.48 [ 27]a | 41.15 ± 6.82 | 37.60 ± 7.28 [ 28]a |
| FEMALE PUPS | MEAN±S.D. | 38.38 ± 7.37 [ 27]a | 38.30 ± 5.98 | 39.46 ± 7.19 [ 27]a | 38.24 ± 6.47 [ 27]b | 36.44 ± 6.35 [ 28]a |
| BRAIN | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 1.49 ± 0.10 | 1.47 ± 0.08 | 1.48 ± 0.11 | 1.48 ± 0.07 | 1.44 ± 0.08 |
| MALE PUPS | MEAN±S.D. | 1.50 ± 0.15 | 1.50 ± 0.09 | 1.50 ± 0.12 | 1.50 ± 0.07 | 1.46 ± 0.08 |
| FEMALE PUPS | MEAN±S.D. | 1.48 ± 0.11 | 1.44 ± 0.09 | 1.45 ± 0.11 | 1.46 ± 0.10 [ 27]b | 1.42 ± 0.10 |
| SPLEEN | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.15 ± 0.04 | 0.14 ± 0.04 | 0.14 ± 0.04 | 0.15 ± 0.04 | 0.14 ± 0.05 |
| MALE PUPS | MEAN±S.D. | 0.14 ± 0.04 | 0.14 ± 0.04 | 0.14 ± 0.05 | 0.15 ± 0.04 | 0.14 ± 0.06 |
| FEMALE PUPS | MEAN±S.D. | 0.15 ± 0.05 | 0.15 ± 0.04 | 0.14 ± 0.04 | 0.14 ± 0.04 [ 27]b | 0.13 ± 0.05 |
| THYMUS | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.18 ± 0.06 | 0.17 ± 0.04 | 0.16 ± 0.05 | 0.17 ± 0.04 | 0.16 ± 0.05 |
| MALE PUPS | MEAN±S.D. | 0.19 ± 0.06 | 0.16 ± 0.05 | 0.16 ± 0.06 | 0.17 ± 0.05 | 0.16 ± 0.06 |
| FEMALE PUPS | MEAN±S.D. | 0.18 ± 0.06 | 0.17 ± 0.04 | 0.17 ± 0.06 | 0.17 ± 0.04 [ 27]b | 0.16 ± 0.05 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for pups in which the terminal body weight could not be determined because pup identification appeared incorrectly recorded.
b. Excludes values for litter(s) that had no female pups examined.

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TABLE E24 (PAGE 2): PUP ORGAN WEIGHTS - SUMMARY - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 28 | 28 | 28 | 28 | 29 |
| INCLUDED IN ANALYSES | N | 28 | 28 | 27a | 28 | 28a |
| RATIOS (%) OF BRAIN TO TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 3.92 ± 0.65 | 3.83 ± 0.44 | 3.83 ± 0.54 | 3.80 ± 0.55 | 3.98 ± 0.56 |
| MALE PUPS | MEAN±S.D. | 3.86 ± 0.69 | 3.83 ± 0.46 | 3.89 ± 0.70 | 3.73 ± 0.50 | 3.98 ± 0.57 |
| FEMALE PUPS | MEAN±S.D. | 3.97 ± 0.72 [ 27]a | 3.82 ± 0.48 | 3.77 ± 0.50 | 3.92 ± 0.68 [ 27]b | 3.99 ± 0.59 |
| RATIOS (%) OF SPLEEN TO TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.38 ± 0.07 | 0.36 ± 0.06 | 0.35 ± 0.06 | 0.36 ± 0.06 | 0.37 ± 0.09 |
| MALE PUPS | MEAN±S.D. | 0.36 ± 0.08 | 0.34 ± 0.08 | 0.34 ± 0.08 | 0.36 ± 0.07 | 0.37 ± 0.10 |
| FEMALE PUPS | MEAN±S.D. | 0.39 ± 0.09 [ 27]a | 0.39 ± 0.07 | 0.36 ± 0.06 | 0.36 ± 0.07 [ 27]b | 0.37 ± 0.10 |
| RATIOS (%) OF THYMUS TO TERMINAL BODY WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 0.47 ± 0.11 | 0.42 ± 0.07 | 0.40 ± 0.08 | 0.44 ± 0.08 | 0.42 ± 0.09 |
| MALE PUPS | MEAN±S.D. | 0.46 ± 0.11 | 0.41 ± 0.10 | 0.40 ± 0.09 | 0.42 ± 0.10 | 0.42 ± 0.10 |
| FEMALE PUPS | MEAN±S.D. | 0.47 ± 0.11 [ 27]a | 0.43 ± 0.06 | 0.41 ± 0.09 | 0.45 ± 0.09 [ 27]b | 0.43 ± 0.10 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for pups in which the terminal body weight could not be determined because pup identification appeared incorrectly recorded.
b. Excludes values for litter(s) that had no female pups examined.

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TABLE E24 (PAGE 3): PUP ORGAN WEIGHTS - SUMMARY - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| MATERNAL DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS EXAMINED | N | 28 | 28 | 28 | 28 | 29 |
| RATIOS (%) OF SPLEEN TO BRAIN WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 9.93 ± 2.44 | 9.70 ± 2.39 | 9.44 ± 2.38 | 9.81 ± 2.51 | 9.46 ± 3.18 |
| MALE PUPS | MEAN±S.D. | 9.66 ± 2.62 | 9.04 ± 2.70 | 9.06 ± 2.72 | 9.97 ± 2.67 | 9.46 ± 3.42 |
| FEMALE PUPS | MEAN±S.D. | 10.19 ± 2.95 | 10.36 ± 2.54 | 9.82 ± 2.38 | 9.55 ± 2.78 [ 27]b | 9.44 ± 3.31 |
| RATIOS (%) OF THYMUS TO BRAIN WEIGHT | | | | | | |
| WEIGHT/LITTER | MEAN±S.D. | 12.34 ± 3.30 | 11.27 ± 2.52 | 10.94 ± 3.02 | 11.75 ± 2.76 | 10.97 ± 3.41 |
| MALE PUPS | MEAN±S.D. | 12.41 ± 3.62 | 10.98 ± 3.22 | 10.53 ± 3.32 | 11.51 ± 3.22 | 11.05 ± 3.95 |
| FEMALE PUPS | MEAN±S.D. | 12.28 ± 3.64 | 11.57 ± 2.40 | 11.34 ± 3.21 | 11.96 ± 3.05 [ 27]b | 10.90 ± 3.38 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for pups in which the terminal body weight could not be determined because pup identification appeared incorrectly recorded.
b. Excludes values for litter(s) that had no female pups examined.



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TABLE E25 (PAGE 1): ANOGENITAL DISTANCE - SUMMARY - F2 GENERATION PUPS

| DOSAGE GROUP | | I | II | III | IV | V |
|---|---|---|---|---|---|---|
| DOSAGE (MG/KG/DAY) | | 0 | 1 | 3 | 10 | 30 |
| LITTERS WITH ONE OR MORE LIVE PUPS | N | 28 | 28 | 28 | 28 | 29 |
| DAY 1 POSTPARTUM: | | | | | | |
| ANOGENITAL DISTANCE (MM) | | | | | | |
| DISTANCE/ LITTER | MEAN±S.D. | 1.83 ± 0.20 | 1.86 ± 0.19 | 1.87 ± 0.22 | 1.96 ± 0.41 | 1.83 ± 0.24 |
| MALE PUPS | MEAN±S.D. | 2.59 ± 0.17 | 2.58 ± 0.17 | 2.60 ± 0.20 | 2.64 ± 0.26 | 2.63 ± 0.17 |
| FEMALE PUPS | MEAN±S.D. | 1.07 ± 0.06 | 1.08 ± 0.10 | 1.10 ± 0.08 | 1.08 ± 0.08 [ 27]a | 1.12 ± 0.10 |
| DAY 22 POSTPARTUM: | | | | | | |
| ANOGENITAL DISTANCE (MM) | | | | | | |
| DISTANCE/ LITTER | MEAN±S.D. | 11.06 ± 0.92 | 11.26 ± 1.04 | 11.01 ± 1.26 [ 27]b | 11.31 ± 1.70 | 10.55 ± 1.46 |
| MALE PUPS | MEAN±S.D. | 13.90 ± 1.10 | 13.95 ± 1.10 | 13.58 ± 1.26 [ 27]b | 13.70 ± 1.44 | 13.31 ± 1.34 |
| FEMALE PUPS | MEAN±S.D. | 8.24 ± 0.78 | 8.28 ± 0.60 | 8.33 ± 0.86 [ 27]b | 8.10 ± 0.74 [ 27]a | 8.02 ± 0.85 |

[ ] = NUMBER OF VALUES AVERAGED
a. Litter 1524 had no female pups.
b. Excludes litter 1474, which did not have anogenital distances recorded on day 22 postpartum.

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TABLE E26 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1301 | | NO ADVERSE FINDINGS |
| 1302 | | NO ADVERSE FINDINGS |
| 1303 | | NO ADVERSE FINDINGS |
| 1304 | | NO ADVERSE FINDINGS |
| 1305 | | NO ADVERSE FINDINGS |
| 1306 | | NO ADVERSE FINDINGS |
| 1307 | | NO ADVERSE FINDINGS |
| 1308 | DP( 62- 65) | LOCALIZED ALOPECIA: LIMBS |
| | DG( 19- 20) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1309 | | NO ADVERSE FINDINGS |
| 1310 | | NO ADVERSE FINDINGS |
| 1311 | | NO ADVERSE FINDINGS |
| 1312 | DG( 16- 22) | INCISORS: MISALIGNED |
| | DL( 1- 22) | INCISORS: MISALIGNED a |
| 1313 | | NO ADVERSE FINDINGS |
| 1314 | | NO ADVERSE FINDINGS |
| 1315 | | NO ADVERSE FINDINGS |
| 1316 | | NO ADVERSE FINDINGS |
| 1317 | | NO ADVERSE FINDINGS |
| 1318 | DP( 61- 68) | INCISORS: MISSING/BROKEN |
| 19779 | | NO ADVERSE FINDINGS |
| 19780 | DP( 24- 25) | CHROMORHINORRHEA |
| | DP( 24- 28) | DEHYDRATION a |
| | DP( 25- 28) | EMACIATION a |
| | DP( 26- 28) | URINE-STAINED ABDOMINAL FUR |
| | DP( 27 ) | LACRIMATION |
| | DP( 27- 28) | PTOSIS |
| | DP( 28 ) | CHROMODACRYORRHEA a |
| 1321 | DP( 41- 55) | LOCALIZED ALOPECIA: HEAD |
| 1322 | DP( 27 ) | HEAD: SCAB (0.5 CM IN DIAMETER) |
| 1323 | | NO ADVERSE FINDINGS |
| 1324 | | NO ADVERSE FINDINGS |
| 1325 | | NO ADVERSE FINDINGS |
| 1326 | | NO ADVERSE FINDINGS |
| 1327 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1328 | | NO ADVERSE FINDINGS |
| 1329 | | NO ADVERSE FINDINGS |
| 1330 | | NO ADVERSE FINDINGS |
| 1331 | | NO ADVERSE FINDINGS |
| 1332 | | NO ADVERSE FINDINGS |
| 1333 | DP( 3- 7) | URINE-STAINED ABDOMINAL FUR |
| 1334 | DP( 8- 12) | ABDOMINAL DISTENTION |
| 1335 | DG( 14- 21) | SWOLLEN EAR(S) |
| | DL( 1- 22) | SWOLLEN EAR(S) a |
| 1336 | DP( 3- 4) | CHROMORHINORRHEA |
| | DP( 7- 10) | ABDOMINAL DISTENTION |
| | DP( 50- 54) | INCISORS: MISSING/BROKEN |
| 1337 | | NO ADVERSE FINDINGS |
| 1338 | DG( 1- 21) | SWOLLEN EAR(S) |
| | DL( 1- 22) | SWOLLEN EAR(S) a |
| 1339 | DP( 6- 12) | ABDOMINAL DISTENTION |
| 1340 | DP( 6- 16) | ABDOMINAL DISTENTION |
| 1341 | DP( 6- 15) | ABDOMINAL DISTENTION |
| | DG( 8- 21) | SWOLLEN EAR(S) |
| | DL( 1- 22) | SWOLLEN EAR(S) a |
| 1342 | DP( 57- 81) | SWOLLEN EAR(S) |
| | DG( 0- 21) | SWOLLEN EAR(S) |
| | DL( 1- 22) | SWOLLEN EAR(S) a |
| 1343 | | NO ADVERSE FINDINGS |
| 1344 | DP( 64- 83) | INCISORS: MISALIGNED |
| | DG( 0- 21) | INCISORS: MISALIGNED |
| | DL( 1- 6) | INCISORS: MISALIGNED |
| | DL( 4- 22) | INCISORS: MISSING/BROKEN a |
| | DL( 22 ) | INCISORS: MISALIGNED a |
| 1345 | | NO ADVERSE FINDINGS |
| 1346 | | NO ADVERSE FINDINGS |
| 1347 | DP( 6- 15) | ABDOMINAL DISTENTION |
| 1348 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP I | | 0 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1349 | | NO ADVERSE FINDINGS |
| 1350 | | NO ADVERSE FINDINGS |
| 1351 | | NO ADVERSE FINDINGS |
| 1352 | | NO ADVERSE FINDINGS |
| 1353 | | NO ADVERSE FINDINGS |
| 1354 | | NO ADVERSE FINDINGS |
| 1355 | DP( 62- 81) | PTOSIS |
| | DG( 0- 21) | PTOSIS |
| | DL( 1- 22) | PTOSIS |
| 1356 | | NO ADVERSE FINDINGS |
| 1357 | | NO ADVERSE FINDINGS |
| 1358 | | NO ADVERSE FINDINGS |
| 1359 | DP( 1- 4) | CHROMODACRYORRHEA |
| 1360 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1361 | | NO ADVERSE FINDINGS |
| 1362 | | NO ADVERSE FINDINGS |
| 1363 | DP( 63- 64) | INCISORS: MISSING/BROKEN |
| 1364 | DP( 3- 5) | CHROMORHINORRHEA |
| 1365 | DP( 1- 3) | TIP OF TAIL MISSING a |
| | DP( 3 ) | DECREASED MOTOR ACTIVITY |
| | DP( 3 ) | CHROMORHINORRHEA a |
| | DP( 3 ) | COLD TO TOUCH |
| | DP( 4 ) | FOUND DEAD |
| 1366 | | NO ADVERSE FINDINGS |
| 1367 | | NO ADVERSE FINDINGS |
| 1368 | | NO ADVERSE FINDINGS |
| 1369 | | NO ADVERSE FINDINGS |
| 1370 | DP( 9- 14) | ABDOMINAL DISTENTION |
| | DP( 17 ) | HEAD: SWOLLEN |
| | DP( 17 ) | SNOUT: SWOLLEN |
| | DP( 17- 20) | LACRIMATION |
| | DP( 17- 20) | RIGHT EYE: SWOLLEN |
| 1371 | | NO ADVERSE FINDINGS |
| 1372 | DP( 2 ) | SOFT OR LIQUID FECES |
| 1373 | DP( 28- 35) | CHROMORHINORRHEA |
| | DP( 29- 50) | DEHYDRATION a |
| | DP( 32- 50) | URINE-STAINED ABDOMINAL FUR |
| | DP( 35 ) | CHROMODACRYORRHEA |
| | DP( 35- 50) | EMACIATION a |
| | DP( 45- 50) | DECREASED MOTOR ACTIVITY |
| | DP( 51 ) | FOUND DEAD |
| 1374 | DP( 26- 31) | ANNULAR CONSTRICTION OF THE TAIL |
| 1375 | DP( 26- 35) | ANNULAR CONSTRICTION OF THE TAIL |
| 1376 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1377 | DP( 2 ) | DEHYDRATION |
| | DP( 2- 3) | CHROMORHINORRHEA |
| | DP( 2- 10) | URINE-STAINED ABDOMINAL FUR |
| | DP( 9- 19) | ABDOMINAL DISTENTION |
| 1378 | | NO ADVERSE FINDINGS |
| 1379 | | NO ADVERSE FINDINGS |
| 1380 | | NO ADVERSE FINDINGS |
| 1381 | | NO ADVERSE FINDINGS |
| 1382 | DG( 6- 21) | SWOLLEN EAR(S) |
| | DL( 1- 22) | SWOLLEN EAR(S)a |
| 1383 | | NO ADVERSE FINDINGS |
| 1384 | | NO ADVERSE FINDINGS |
| 1385 | | NO ADVERSE FINDINGS |
| 1386 | DP( 9- 12) | ABDOMINAL DISTENTION |
| 1387 | | NO ADVERSE FINDINGS |
| 1388 | | NO ADVERSE FINDINGS |
| 1389 | DP( 67- 83) | SWOLLEN EAR(S) |
| | DG( 0- 6) | SWOLLEN EAR(S) |
| 1390 | DP( 8- 14) | ABDOMINAL DISTENTION |
| 1391 | | NO ADVERSE FINDINGS |
| 1392 | | NO ADVERSE FINDINGS |
| 1393 | | NO ADVERSE FINDINGS |
| 1394 | | NO ADVERSE FINDINGS |
| 1395 | | NO ADVERSE FINDINGS |
| 1396 | | NO ADVERSE FINDINGS |
| 1397 | | NO ADVERSE FINDINGS |
| 1398 | DP( 1- 9) | URINE-STAINED ABDOMINAL FUR |
| 1399 | | NO ADVERSE FINDINGS |
| 1400 | | NO ADVERSE FINDINGS |
| 1401 | | NO ADVERSE FINDINGS |
| 1402 | | NO ADVERSE FINDINGS |
| 1403 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP II | | 1 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1404 | | NO ADVERSE FINDINGS |
| 1405 | DP( 3- 6) | URINE-STAINED ABDOMINAL FUR |
| | DP( 7- 13) | ABDOMINAL DISTENTION |
| 1406 | | NO ADVERSE FINDINGS |
| 1407 | DP( 24- 83) | TIP OF TAIL MISSING |
| | DG( 0- 21) | TIP OF TAIL MISSING |
| | DL( 1- 22) | TIP OF TAIL MISSING a |
| 1408 | | NO ADVERSE FINDINGS |
| 1409 | | NO ADVERSE FINDINGS |
| 1410 | | NO ADVERSE FINDINGS |
| 1411 | | NO ADVERSE FINDINGS |
| 1412 | DP( 6- 15) | ABDOMINAL DISTENTION |
| 1413 | DP( 59- 83) | LOCALIZED ALOPECIA: LIMBS |
| | DG( 0- 21) | LOCALIZED ALOPECIA: LIMBS a |
| 1413 | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS |
| 1414 | | NO ADVERSE FINDINGS |
| 1415 | DP( 1- 7) | URINE-STAINED ABDOMINAL FUR |
| | DP( 6- 16) | ABDOMINAL DISTENTION |
| 1416 | | NO ADVERSE FINDINGS |
| 1417 | | NO ADVERSE FINDINGS |
| 1418 | | NO ADVERSE FINDINGS |
| 1419 | | NO ADVERSE FINDINGS |
| 1420 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1421 | DL( 2 ) | RED PERIVAGINAL SUBSTANCE |
| 1422 | | NO ADVERSE FINDINGS |
| 1423 | | NO ADVERSE FINDINGS |
| 1424 | | NO ADVERSE FINDINGS |
| 1425 | | NO ADVERSE FINDINGS |
| 1426 | DP( 2- 3) | SOFT OR LIQUID FECES |
| | DP( 3- 5) | URINE-STAINED ABDOMINAL FUR |
| 1427 | DP( 26 ) | SOFT OR LIQUID FECES |
| 1428 | DL( 13 ) | SOFT OR LIQUID FECES |
| 1429 | | NO ADVERSE FINDINGS |
| 1430 | DP( 59- 66) | INCISORS: MISSING/BROKEN |
| 1431 | DP( 4- 11) | URINE-STAINED ABDOMINAL FUR |
| 1432 | DP( 4- 6) | CHROMORHINORRHEA a |
| | DP( 4- 6) | URINE-STAINED ABDOMINAL FUR |
| | DP( 6 ) | EMACIATION a |
| | DP( 7 ) | FOUND DEAD |
| 1433 | DP( 23 ) | CHROMORHINORRHEA |
| | DL( 1 ) | RED PERIVAGINAL SUBSTANCE |
| 1434 | DP( 2- 4) | CHROMORHINORRHEA |
| 1435 | | NO ADVERSE FINDINGS |
| 1436 | DL( 5- 21) | LOCALIZED ALOPECIA: LIMBS |
| 1437 | | NO ADVERSE FINDINGS |
| 1438 | | NO ADVERSE FINDINGS |
| 1439 | DP( 62- 79) | LOCALIZED ALOPECIA: LIMBS |
| | DG( 15- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1440 | | NO ADVERSE FINDINGS |
| 1441 | DP( 3 ) | EMACIATION |
| | DP( 3- 10) | URINE-STAINED ABDOMINAL FUR |
| | DP( 9- 13) | ABDOMINAL DISTENTION |
| 1442 | | NO ADVERSE FINDINGS |
| 1443 | | NO ADVERSE FINDINGS |
| 1444 | DP( 1 ) | CHROMORHINORRHEA |
| 1445 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1446 | | NO ADVERSE FINDINGS |
| 1447 | | NO ADVERSE FINDINGS |
| 1448 | | NO ADVERSE FINDINGS |
| 1449 | | NO ADVERSE FINDINGS |
| 1450 | DL( 2 ) | RED PERIVAGINAL SUBSTANCE |
| | DL( 17 ) | SOFT OR LIQUID FECES |
| | DL( 19- 20) | SOFT OR LIQUID FECES |
| 1451 | | NO ADVERSE FINDINGS |
| 1452 | DP( 37 ) | CHROMORHINORRHEA |
| 1453 | | NO ADVERSE FINDINGS |
| 1454 | | NO ADVERSE FINDINGS |
| 1455 | | NO ADVERSE FINDINGS |
| 1456 | | NO ADVERSE FINDINGS |
| 1457 | | NO ADVERSE FINDINGS |
| 1458 | | NO ADVERSE FINDINGS |
| 1459 | DP( 41- 64) | LOCALIZED ALOPECIA: LIMBS |
| | DP( 51- 53) | CHROMORHINORRHEA |
| | DP( 51- 82) | INCISORS: MISSING/BROKEN |
| | DP( 54 ) | INCISORS: MISALIGNED |
| | DP( 54- 55) | CHROMODACRYORRHEA |
| | DP( 65- 82) | CHROMODACRYORRHEA |
| | DG( 0- 21) | CHROMODACRYORRHEA |
| | DG( 0- 21) | INCISORS: MISSING/BROKEN |
| | DL( 1- 22) | CHROMODACRYORRHEA a |
| | DL( 1- 22) | INCISORS: MISSING/BROKEN a |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1460 | | NO ADVERSE FINDINGS |
| 1461 | | NO ADVERSE FINDINGS |
| 1462 | | NO ADVERSE FINDINGS |
| 1463 | DL( 3- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1464 | | NO ADVERSE FINDINGS |
| 1465 | DP( 1- 3) | CHROMORHINORRHEA |
| | DP( 6- 18) | ABDOMINAL DISTENTION |
| | DP( 14- 15) | CHROMORHINORRHEA |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP III | | 3 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1466 | DP( 6- 12) | ABDOMINAL DISTENTION |
| 1467 | DP( 7- 10) | ABDOMINAL DISTENTION |
| 1468 | | NO ADVERSE FINDINGS |
| 1469 | DL( 22 ) | SOFT OR LIQUID FECES |
| 1470 | | NO ADVERSE FINDINGS |
| 1471 | | NO ADVERSE FINDINGS |
| 1472 | DL( 2 ) | RED PERIVAGINAL SUBSTANCE |
| 1473 | | NO ADVERSE FINDINGS |
| 1474 | DP( 60- 63) | INCISORS: MISSING/BROKEN |
| | DP( 64- 77) | INCISORS: MISALIGNED |
| | DG( 16- 21) | INCISORS: MISSING/BROKEN |
| | DL( 1- 22) | INCISORS: MISSING/BROKEN a |
| 1475 | | NO ADVERSE FINDINGS |
| 1476 | | NO ADVERSE FINDINGS |
| 1477 | | NO ADVERSE FINDINGS |
| 1478 | | NO ADVERSE FINDINGS |
| 1479 | | NO ADVERSE FINDINGS |
| 1480 | DP( 57- 59) | SWOLLEN EAR(S) |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 10): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1481 | | NO ADVERSE FINDINGS |
| 1482 | | NO ADVERSE FINDINGS |
| 1483 | DP( 2- 8) | URINE-STAINED ABDOMINAL FUR |
| | DP( 3 ) | EMACIATION |
| | DP( 9- 18) | ABDOMINAL DISTENTION |
| 1484 | DP( 1- 2) | URINE-STAINED ABDOMINAL FUR |
| | DP( 2 ) | DECREASED MOTOR ACTIVITY |
| | DP( 2 ) | COLD TO TOUCH |
| | DP( 2 ) | LABORED BREATHING |
| | DP( 3 ) | FOUND DEAD |
| 1485 | | NO ADVERSE FINDINGS |
| 1486 | DP( 5- 8) | URINE-STAINED ABDOMINAL FUR |
| | DP( 9- 20) | ABDOMINAL DISTENTION |
| 1487 | | NO ADVERSE FINDINGS |
| 1488 | | NO ADVERSE FINDINGS |
| 1489 | DP( 8- 10) | ABDOMINAL DISTENTION |
| | DP( 15- 17) | LOCALIZED ALOPECIA: NECK |
| 1490 | | NO ADVERSE FINDINGS |
| 1491 | DP( 8- 9) | ABDOMINAL DISTENTION |
| | DP( 13- 83) | TIP OF TAIL MISSING |
| | DG( 0- 21) | TIP OF TAIL MISSING |
| | DL( 18 ) | URINE-STAINED ABDOMINAL FUR |
| | DL( 18- 22) | SOFT OR LIQUID FECES |
| | DL( 1- 22) | TIP OF TAIL MISSING |
| 1492 | | NO ADVERSE FINDINGS |
| 1493 | | NO ADVERSE FINDINGS |
| 1494 | | NO ADVERSE FINDINGS |
| 1495 | DP( 30 ) | LACRIMATION |
| | DP( 30 ) | LEFT EYE: SWOLLEN |
| 1496 | | NO ADVERSE FINDINGS |
| 1497 | | NO ADVERSE FINDINGS |
| 1498 | DP( 6 ) | CHROMORHINORRHEA |
| | DP( 6 ) | URINE-STAINED ABDOMINAL FUR |
| 1499 | | NO ADVERSE FINDINGS |
| 1500 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 11): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1501 | | NO ADVERSE FINDINGS |
| 1502 | | NO ADVERSE FINDINGS |
| 1503 | | NO ADVERSE FINDINGS |
| 1504 | | NO ADVERSE FINDINGS |
| 1505 | DP( 7- 18) | ABDOMINAL DISTENTION |
| | DP( 65- 79) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 5- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1506 | | NO ADVERSE FINDINGS |
| 1507 | | NO ADVERSE FINDINGS |
| 1508 | | NO ADVERSE FINDINGS |
| 1509 | | NO ADVERSE FINDINGS |
| 1510 | | NO ADVERSE FINDINGS |
| 1511 | | NO ADVERSE FINDINGS |
| 1512 | | NO ADVERSE FINDINGS |
| 1513 | DP( 59- 67) | BACK: SCAB (DID NOT EXCEED 0.5 CM X 0.3 CM) |
| 1514 | | NO ADVERSE FINDINGS |
| 1515 | | NO ADVERSE FINDINGS |
| 1516 | | NO ADVERSE FINDINGS |
| 1517 | DL( 8- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1518 | | NO ADVERSE FINDINGS |
| 1519 | | NO ADVERSE FINDINGS |
| 1520 | | NO ADVERSE FINDINGS |
| 1521 | | NO ADVERSE FINDINGS |
| 1522 | | NO ADVERSE FINDINGS |
| 1523 | | NO ADVERSE FINDINGS |
| 1524 | | NO ADVERSE FINDINGS |
| 1525 | | NO ADVERSE FINDINGS |
| 1526 | | NO ADVERSE FINDINGS |
| 1527 | DL( 14 ) | SOFT OR LIQUID FECES |
| | DL( 15- 16) | URINE-STAINED ABDOMINAL FUR |
| 1528 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 12): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP IV | | 10 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1529 | | NO ADVERSE FINDINGS |
| 1530 | | NO ADVERSE FINDINGS |
| 1531 | DP( 71- 83) | INCISORS: MISALIGNED |
| | DG( 0- 2) | INCISORS: MISALIGNED |
| 1532 | | NO ADVERSE FINDINGS |
| 1533 | | NO ADVERSE FINDINGS |
| 1534 | | NO ADVERSE FINDINGS |
| 1535 | | NO ADVERSE FINDINGS |
| 1536 | | NO ADVERSE FINDINGS |
| 1537 | | NO ADVERSE FINDINGS |
| 1538 | | NO ADVERSE FINDINGS |
| 1539 | | NO ADVERSE FINDINGS |
| 1540 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 13): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1541 | DP( 10- 19) | ABDOMINAL DISTENTION |
| 1542 | DP( 10- 11) | ABDOMINAL DISTENTION |
| 1543 | | NO ADVERSE FINDINGS |
| 1544 | DP( 61- 66) | BACK: SCAB (0.5 CM X 0.2 CM) |
| | DP( 62- 66) | LOCALIZED ALOPECIA: LIMBS |
| 1545 | DP( 56 ) | CHROMORHINORRHEA |
| | DL( 2 ) | RED PERIVAGINAL SUBSTANCE |
| 1546 | | NO ADVERSE FINDINGS |
| 1547 | DP( 9- 13) | ABDOMINAL DISTENTION |
| 1548 | DL( 5- 22) | SWOLLEN EAR(S) a |
| 1549 | DP( 2- 3) | DECREASED MOTOR ACTIVITY |
| | DP( 2- 7) | CHROMORHINORRHEA a |
| | DP( 3- 7) | COLD TO TOUCH |
| | DP( 5- 7) | URINE-STAINED ABDOMINAL FUR |
| | DP( 8 ) | FOUND DEAD |
| 1550 | DP( 9- 13) | ABDOMINAL DISTENTION |
| | DP( 40 ) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1551 | DP( 9- 14) | ABDOMINAL DISTENTION |
| | DP( 13 ) | TAIL BENT |
| | DP( 14- 31) | TIP OF TAIL MISSING a |
| 1552 | | NO ADVERSE FINDINGS |
| 1553 | | NO ADVERSE FINDINGS |
| 1554 | | NO ADVERSE FINDINGS |
| 1555 | DG( 17- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1556 | | NO ADVERSE FINDINGS |
| 1557 | | NO ADVERSE FINDINGS |
| 1558 | DP( 8- 13) | ABDOMINAL DISTENTION |
| 1559 | DP( 3- 5) | URINE-STAINED ABDOMINAL FUR |
| | DP( 5 ) | COLD TO TOUCH |
| | DP( 5 ) | EMACIATION a |
| | DP( 6 ) | FOUND DEAD |
| 1560 | | NO ADVERSE FINDINGS |
| 1561 | | NO ADVERSE FINDINGS |
| 1562 | DP( 2 ) | FOUND DEAD b |
| 1563 | DP( 2 ) | FOUND DEAD b |
| 1564 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Observation confirmed at necropsy.

b. Clinical observations were not recorded on day 1 postweaning.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 14): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1565 | DP( 39 ) | ANNULAR CONSTRICTIONS OF THE TAIL |
| | DG( 14- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1566 | DG( 21 ) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 22) | LOCALIZED ALOPECIA: LIMBS a |
| 1567 | | NO ADVERSE FINDINGS |
| 1568 | | NO ADVERSE FINDINGS |
| 1569 | | NO ADVERSE FINDINGS |
| 1570 | | NO ADVERSE FINDINGS |
| 1571 | | NO ADVERSE FINDINGS |
| 1572 | | NO ADVERSE FINDINGS |
| 1573 | DP( 8- 19) | ABDOMINAL DISTENTION |
| 1574 | DP( 2- 3) | COLD TO TOUCH |
| | DP( 2- 3) | URINE-STAINED ABDOMINAL FUR |
| | DP( 3 ) | FOUND DEAD |
| 1575 | DP( 3 ) | FOUND DEAD |
| 1576 | DP( 3- 8) | URINE-STAINED ABDOMINAL FUR |
| | DP( 9- 13) | ABDOMINAL DISTENTION |
| | DP( 38 ) | ANNULAR CONSTRICTIONS OF THE TAIL |
| 1577 | | NO ADVERSE FINDINGS |
| 1578 | | NO ADVERSE FINDINGS |
| 1579 | | NO ADVERSE FINDINGS |
| 1580 | | NO ADVERSE FINDINGS |
| 1581 | | NO ADVERSE FINDINGS |
| 1582 | | NO ADVERSE FINDINGS |
| 1583 | | NO ADVERSE FINDINGS |
| 1584 | | NO ADVERSE FINDINGS |
| 1585 | | NO ADVERSE FINDINGS |
| 1586 | DG( 14- 21) | RIGHT AXILLA: MASS (0.5 CM X 0.5 CM X 0.5 CM) |
| | DL( 1- 19) | RIGHT AXILLA: MASS (DID NOT EXCEED 0.5 CM X 0.5 CM X 0.5 CM) |
| 1587 | | NO ADVERSE FINDINGS |
| 1588 | | NO ADVERSE FINDINGS |
| 1589 | DP( 24 ) | RALES |
| 1590 | | NO ADVERSE FINDINGS |
| 1591 | DG( 20- 21) | LOCALIZED ALOPECIA: LIMBS |
| | DL( 1- 6) | LOCALIZED ALOPECIA: LIMBS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E26 (PAGE 15): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP V | | 30 MG/KG/DAY |
|---|---|---|
| RAT # | | DESCRIPTION |
| 1592 | DP( 6- 12) | URINE-STAINED ABDOMINAL FUR |
| | DP( 7- 15) | ABDOMINAL DISTENTION |
| 1593 | | NO ADVERSE FINDINGS |
| 1594 | | NO ADVERSE FINDINGS |
| 1595 | | NO ADVERSE FINDINGS |
| 1596 | DP( 8 ) | RALES |
| 1597 | DP( 5- 16) | ABDOMINAL DISTENTION |
| 1598 | | NO ADVERSE FINDINGS |
| 1599 | | NO ADVERSE FINDINGS |
| 1600 | | NO ADVERSE FINDINGS |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E27 (PAGE 1): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | | 0 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1301 | 39. | 71. | 107. | 146. | 176. | | | | | | | |
| 1302 | 41. | 69. | 105. | 137. | 162. | 180. | 196. | 206. | 219. | 220. | 235. | 237. |
| 1303 | 40. | 69. | 109. | 144. | 173. | | | | | | | |
| 1304 | 46. | 76. | 115. | 144. | 172. | 194. | 208. | 217. | 233. | 246. | 246. | 266. |
| 1305 | 53. | 86. | 131. | 176. | 201. | | | | | | | |
| 1306 | 31. | 66. | 107. | 148. | 178. | 208. | 219. | 236. | 252. | 260. | 264. | 276. |
| 1307 | 31. | 59. | 99. | 134. | 163. | | | | | | | |
| 1308 | 47. | 76. | 116. | 150. | 176. | 201. | 215. | 234. | 241. | 253. | 256. | 279. |
| 1309 | 44. | 74. | 115. | 151. | 180. | | | | | | | |
| 1310 | 46. | 74. | 123. | 158. | 190. | 220. | 239. | 249. | 267. | 285. | 285. | 306. |
| 1311 | 40. | 71. | 108. | 145. | 170. | | | | | | | |
| 1312 | 49. | 74. | 116. | 158. | 192. | 230. | 248. | 263. | 274. | 295. | 304. | 312. |
| 1313 | 45. | 70. | 104. | 140. | 168. | 194. | 211. | 222. | 242. | 254. | 258. | 268. |
| 1314 | 46. | 83. | 124. | 160. | 196. | | | | | | | |
| 1315 | 50. | 95. | 144. | 191. | 236. | | | | | | | |
| 1316 | 45. | 87. | 134. | 169. | 196. | 228. | 248. | 254. | 276. | 279. | 288. | 297. |
| 1317 | 48. | 85. | 132. | 169. | 202. | | | | | | | |
| 1318 | 39. | 72. | 119. | 159. | 192. | 228. | 271. | 271. | 284. | 298. | 305. | 327. |
| 19779 | 32. | 58. | 94. | 136. | | | | | | | | |
| 19780 | 41. | 71. | 108. | 124. | | | | | | | | |
| 1321 | 46. | 77. | 116. | 153. | 183. | 196. | 242. | 274. | 262. | 274. | 280. | 287. |
| 1322 | 51. | 84. | 119. | 156. | 188. | | | | | | | |
| 1323 | 47. | 78. | 117. | 160. | 182. | | | | | | | |
| 1324 | 33. | 59. | 98. | 131. | 152. | | | | | | | |
| 1325 | 35. | 60. | 97. | 133. | 159. | 191. | 203. | 224. | 235. | 245. | 253. | 267. |
| 1326 | 34. | 63. | 109. | 143. | 180. | | | | | | | |
| 1327 | 33. | 61. | 102. | 151. | 192. | | | | | | | |
| 1328 | 35. | 67. | 111. | 146. | 181. | 199. | 225. | 239. | 254. | 268. | 270. | 279. |
| 1329 | 39. | 67. | 103. | 132. | 159. | | | | | | | |
| 1330 | 34. | 62. | 96. | 133. | 162. | 184. | 200. | 222. | 230. | 239. | 246. | 255. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E27 (PAGE 2): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | | 0 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1331 | 44. | 72. | 112. | 151. | 183. | 201. | 223. | 238. | 252. | 268. | 263. | 280. |
| 1332 | 40. | 69. | 110. | 144. | 173. | | | | | | | |
| 1333 | 28. | 52. | 88. | 130. | 155. | | | | | | | |
| 1334 | 28. | 48. | 79. | 120. | 146. | 167. | 187. | 201. | 211. | 225. | 227. | 238. |
| 1335 | 40. | 69. | 102. | 146. | 171. | 194. | 212. | 232. | 250. | 253. | 268. | 275. |
| 1336 | 37. | 66. | 100. | 136. | 167. | 187. | 212. | 226. | 238. | 243. | 249. | 262. |
| 1337 | 47. | 72. | 107. | 152. | | | | | | | | |
| 1338 | 48. | 77. | 115. | 152. | 181. | 204. | 229. | 247. | 254. | 272. | 278. | 303. |
| 1339 | 32. | 59. | 96. | 141. | | | | | | | | |
| 1340 | 37. | 58. | 93. | 137. | 168. | 200. | 220. | 258. | 250. | 272. | 285. | 279. |
| 1341 | 40. | 72. | 114. | 146. | 174. | 198. | 217. | 237. | 253. | 266. | 263. | 291. |
| 1342 | 42. | 73. | 110. | 144. | 170. | 200. | 222. | 237. | 254. | 274. | 276. | 295. |
| 1343 | 53. | 91. | 134. | 173. | | | | | | | | |
| 1344 | 60. | 91. | 138. | 173. | 196. | 215. | 229. | 250. | 257. | 259. | 261. | 266. |
| 1345 | 47. | 80. | 122. | 160. | 186. | 213. | 232. | 255. | 268. | 280. | 288. | 295. |
| 1346 | 44. | 76. | 118. | 155. | 174. | 197. | 214. | 229. | 237. | 241. | 247. | 253. |
| 1347 | 36. | 68. | 108. | 148. | | | | | | | | |
| 1348 | 41. | 68. | 102. | 142. | 168. | 190. | 213. | 234. | 244. | 259. | 264. | 275. |
| 1349 | 40. | 68. | 106. | 144. | | | | | | | | |
| 1350 | 49. | 86. | 133. | 172. | 191. | 222. | 234. | 263. | 262. | 276. | 275. | 298. |
| 1351 | 45. | 79. | 123. | 158. | | | | | | | | |
| 1352 | 49. | 85. | 125. | 172. | | | | | | | | |
| 1353 | 38. | 62. | 100. | 137. | 163. | 180. | 205. | 223. | 240. | 245. | 256. | 262. |
| 1354 | 44. | 74. | 108. | 140. | | | | | | | | |
| 1355 | 43. | 80. | 123. | 157. | 180. | 209. | 226. | 251. | 263. | 273. | 279. | 295. |
| 1356 | 48. | 83. | 124. | 167. | | | | | | | | |
| 1357 | 35. | 60. | 99. | 135. | | | | | | | | |
| 1358 | 33. | 64. | 100. | 137. | 154. | 177. | 192. | 211. | 228. | 232. | 238. | 240. |
| 1359 | 36. | 65. | 99. | 137. | 159. | 189. | 201. | 210. | 228. | 234. | 239. | 239. |
| 1360 | 37. | 70. | 112. | | | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E27 (PAGE 3): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1361 | 40. | 66. | 100. | 139. | 169. | | | | | | | |
| 1362 | 40. | 64. | 92. | 124. | 152. | 172. | 188. | 202. | 212. | 226. | 236. | 245. |
| 1363 | 35. | 66. | 103. | 148. | 176. | 201. | 216. | 228. | 246. | 261. | 264. | 282. |
| 1364 | 35. | 59. | 95. | 143. | 170. | 197. | 211. | 230. | 241. | 257. | 262. | 272. |
| 1365 | 31. | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | | |
| 1366 | 36. | 61. | 98. | 131. | 163. | | | | | | | |
| 1367 | 29. | 48. | 76. | 112. | 140. | 158. | 177. | 186. | 197. | 202. | 220. | 223. |
| 1368 | 38. | 64. | 102. | 138. | 162. | 181. | 200. | 213. | 230. | 243. | 247. | 266. |
| 1369 | 41. | 70. | 106. | 137. | 162. | | | | | | | |
| 1370 | 40. | 66. | 108. | 151. | 186. | | | | | | | |
| 1371 | 37. | 65. | 105. | 146. | 181. | 210. | 236. | 251. | 260. | 282. | 281. | 303. |
| 1372 | 49. | 80. | 120. | 156. | 181. | | | | | | | |
| 1373 | 44. | 73. | 112. | 151. | 151. | 130. | 118. | 107. | FOUND DEAD ON DAY 51 POSTWEANING | | | |
| 1374 | 41. | 70. | 107. | 147. | 177. | | | | | | | |
| 1375 | 40. | 66. | 104. | 143. | 170. | 201. | 221. | 233. | 239. | 255. | 265. | 278. |
| 1376 | 37. | 62. | 96. | 127. | 161. | 194. | 223. | 236. | 267. | 284. | 296. | 316. |
| 1377 | 26. | 43. | 84. | 134. | 172. | | | | | | | |
| 1378 | 47. | 79. | 121. | 158. | 188. | 210. | 224. | 242. | 258. | 270. | 278. | 288. |
| 1379 | 49. | 78. | 118. | 162. | 187. | 213. | 232. | 259. | 267. | 278. | 280. | 295. |
| 1380 | 40. | 65. | 98. | 135. | 156. | | | | | | | |
| 1381 | 38. | 62. | 96. | 136. | 159. | 182. | 202. | 217. | 228. | 239. | 242. | 256. |
| 1382 | 31. | 58. | 96. | 133. | 160. | 188. | 210. | 229. | 239. | 249. | 248. | 265. |
| 1383 | 29. | 49. | 85. | 124. | 153. | 178. | 202. | 219. | 232. | 245. | 253. | 274. |
| 1384 | 40. | 68. | 110. | 140. | 156. | 176. | 183. | 202. | 203. | 219. | 225. | 236. |
| 1385 | 39. | 76. | 111. | 150. | 179. | | | | | | | |
| 1386 | 36. | 65. | 98. | 132. | 160. | | | | | | | |
| 1387 | 40. | 69. | 111. | 158. | 184. | 221. | 240. | 254. | 272. | 286. | 286. | 308. |
| 1388 | 42. | 70. | 107. | 149. | 183. | | | | | | | |
| 1389 | 44. | 73. | 113. | 154. | 181. | 214. | 237. | 253. | 273. | 291. | 291. | 302. |
| 1390 | 38. | 73. | 113. | 148. | 170. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E27 (PAGE 4): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1391 | 36. | 64. | 103. | 142. | 174. | | | | | | | |
| 1392 | 38. | 73. | 122. | 158. | 187. | 213. | 235. | 246. | 269. | 258. | 289. | 316. |
| 1393 | 39. | 65. | 101. | 139. | 171. | 191. | 214. | 230. | 234. | 260. | 267. | 279. |
| 1394 | 40. | 68. | 109. | 153. | 186. | | | | | | | |
| 1395 | 34. | 58. | 95. | 131. | 166. | | | | | | | |
| 1396 | 42. | 74. | 108. | 153. | 182. | | | | | | | |
| 1397 | 40. | 72. | 116. | 159. | 189. | 206. | 233. | 253. | 257. | 261. | 284. | 301. |
| 1398 | 31. | 53. | 88. | 132. | 162. | | | | | | | |
| 1399 | 58. | 85. | 121. | 157. | 181. | 205. | 231. | 244. | 251. | 260. | 275. | 288. |
| 1400 | 57. | 82. | 117. | 150. | 177. | | | | | | | |
| 1401 | 34. | 63. | 98. | 132. | 158. | 177. | 194. | 208. | 222. | 230. | 235. | 250. |
| 1402 | 38. | 68. | 104. | 138. | 164. | | | | | | | |
| 1403 | 32. | 62. | 95. | 135. | 153. | | | | | | | |
| 1404 | 31. | 57. | 94. | 134. | 165. | 188. | 212. | 230. | 242. | 258. | 263. | 285. |
| 1405 | 28. | 50. | 84. | 126. | 166. | | | | | | | |
| 1406 | 44. | 72. | 105. | 136. | 164. | | | | | | | |
| 1407 | 47. | 75. | 116. | 155. | 183. | 210. | 229. | 242. | 259. | 263. | 274. | 277. |
| 1408 | 42. | 65. | 101. | 136. | 162. | | | | | | | |
| 1409 | 41. | 66. | 104. | 142. | 174. | 204. | 212. | 252. | 263. | 258. | 269. | 280. |
| 1410 | 40. | 72. | 112. | 157. | 189. | 221. | 239. | 266. | 275. | 285. | 294. | 315. |
| 1411 | 44. | 74. | 114. | 154. | | | | | | | | |
| 1412 | 49. | 84. | 128. | 163. | | | | | | | | |
| 1413 | 40. | 68. | 106. | 148. | 177. | 195. | 216. | 237. | 245. | 252. | 264. | 273. |
| 1414 | 35. | 63. | 98. | 135. | | | | | | | | |
| 1415 | 30. | 58. | 89. | 129. | 157. | 180. | 208. | 222. | 232. | 249. | 250. | 264. |
| 1416 | 46. | 74. | 114. | 150. | 181. | 203. | 225. | 239. | 240. | 248. | 256. | 265. |
| 1417 | 45. | 72. | 112. | 151. | | | | | | | | |
| 1418 | 41. | 65. | 99. | 138. | 163. | 186. | 206. | 219. | 230. | 245. | 246. | 262. |
| 1419 | 38. | 69. | 108. | 149. | | | | | | | | |
| 1420 | 42. | 64. | 104. | 145. | | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E27 (PAGE 5): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1421 | 31. | 62. | 97. | 138. | 170. | 191. | 209. | 222. | 234. | 245. | 251. | 266. |
| 1422 | 34. | 62. | 100. | 143. | 167. | | | | | | | |
| 1423 | 33. | 64. | 106. | 143. | 180. | | | | | | | |
| 1424 | 37. | 72. | 111. | 150. | 177. | 211. | 223. | 232. | 249. | 268. | 267. | 280. |
| 1425 | 32. | 61. | 104. | 145. | 177. | | | | | | | |
| 1426 | 34. | 60. | 97. | 136. | 157. | 191. | 223. | 238. | 266. | 276. | 287. | 299. |
| 1427 | 44. | 74. | 121. | 163. | 191. | | | | | | | |
| 1428 | 45. | 78. | 119. | 158. | 191. | 213. | 233. | 249. | 260. | 280. | 289. | 307. |
| 1429 | 42. | 76. | 112. | 150. | 177. | | | | | | | |
| 1430 | 35. | 65. | 110. | 160. | 199. | 233. | 258. | 275. | 283. | 297. | 308. | 329. |
| 1431 | 31. | 52. | 86. | 138. | 176. | 209. | 232. | 257. | 271. | 282. | 290. | 297. |
| 1432 | 31. | FOUND DEAD ON DAY 7 POSTWEANING | | | | | | | | | | |
| 1433 | 40. | 71. | 112. | 148. | 182. | 212. | 234. | 246. | 263. | 284. | 282. | 303. |
| 1434 | 43. | 52. | 102. | 147. | 183. | | | | | | | |
| 1435 | 51. | 85. | 128. | 169. | 199. | | | | | | | |
| 1436 | 42. | 81. | 124. | 162. | 189. | 217. | 228. | 244. | 259. | 271. | 281. | 298. |
| 1437 | 42. | 76. | 114. | 145. | 168. | 192. | 206. | 227. | 248. | 255. | 255. | 264. |
| 1438 | 38. | 75. | 113. | 136. | 144. | | | | | | | |
| 1439 | 47. | 76. | 120. | 160. | 184. | 214. | 233. | 254. | 271. | 287. | 293. | 304. |
| 1440 | 45. | 76. | 122. | 162. | 189. | | | | | | | |
| 1441 | 32. | 51. | 90. | 140. | 172. | | | | | | | |
| 1442 | 33. | 61. | 94. | 143. | 169. | 196. | 229. | 237. | 238. | 248. | 258. | 278. |
| 1443 | 35. | 62. | 94. | 136. | 166. | 194. | 215. | 240. | 261. | 279. | 279. | 300. |
| 1444 | 37. | 65. | 107. | 150. | 179. | | | | | | | |
| 1445 | 39. | 72. | 108. | 150. | 166. | | | | | | | |
| 1446 | 41. | 70. | 103. | 137. | 173. | 189. | 207. | 222. | 231. | 246. | 253. | 260. |
| 1447 | 46. | 74. | 109. | 145. | 191. | | | | | | | |
| 1448 | 52. | 80. | 117. | 158. | 180. | 216. | 234. | 256. | 263. | 275. | 287. | 302. |
| 1449 | 57. | 93. | 135. | 156. | 182. | | | | | | | |
| 1450 | 56. | 90. | 131. | 159. | 180. | 200. | 218. | 233. | 238. | 250. | 263. | 277. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E27 (PAGE 6): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1451 | 56. | 93. | 136. | 176. | 208. | | | | | | | |
| 1452 | 50. | 82. | 119. | 151. | 179. | 169. | 224. | 251. | 254. | 264. | 272. | 290. |
| 1453 | 54. | 96. | 138. | 170. | 197. | | | | | | | |
| 1454 | 57. | 93. | 133. | 168. | 189. | | | | | | | |
| 1455 | 46. | 78. | 116. | 151. | 184. | 211. | 231. | 246. | 270. | 288. | 287. | 300. |
| 1456 | 61. | 96. | 131. | 169. | 192. | 216. | 231. | 246. | 250. | 265. | 266. | 279. |
| 1457 | 39. | 70. | 108. | 143. | 162. | | | | | | | |
| 1458 | 38. | 69. | 113. | 154. | 178. | 202. | 222. | 232. | 243. | 247. | 265. | 271. |
| 1459 | 52. | 93. | 138. | 172. | 207. | 243. | 258. | 277. | 290. | 300. | 311. | 323. |
| 1460 | 43. | 77. | 117. | 160. | 196. | | | | | | | |
| 1461 | 42. | 71. | 108. | 152. | 188. | 211. | 234. | 250. | 266. | 273. | 287. | 297. |
| 1462 | 46. | 76. | 112. | 158. | 181. | | | | | | | |
| 1463 | 42. | 73. | 113. | 149. | 176. | 200. | 216. | 240. | 253. | 265. | 269. | 283. |
| 1464 | 53. | 92. | 139. | 178. | 217. | | | | | | | |
| 1465 | 30. | 49. | 83. | 128. | 164. | 192. | 222. | 242. | 254. | 272. | 278. | 302. |
| 1466 | 32. | 53. | 92. | 133. | | | | | | | | |
| 1467 | 34. | 60. | 101. | 140. | | | | | | | | |
| 1468 | 36. | 60. | 92. | 130. | 157. | 178. | 206. | 230. | 239. | 245. | 261. | 267. |
| 1469 | 38. | 62. | 97. | 132. | 160. | 196. | 217. | 242. | 244. | 258. | 262. | 272. |
| 1470 | 33. | 58. | 100. | 135. | | | | | | | | |
| 1471 | 47. | 78. | 114. | 150. | | | | | | | | |
| 1472 | 46. | 75. | 110. | 144. | 170. | 189. | 214. | 228. | 243. | 253. | 251. | 260. |
| 1473 | 53. | 83. | 126. | 156. | | | | | | | | |
| 1474 | 50. | 81. | 121. | 152. | 175. | 195. | 213. | 220. | 233. | 231. | 248. | 265. |
| 1475 | 37. | 68. | 103. | 134. | | | | | | | | |
| 1476 | 46. | 76. | 116. | 156. | 188. | 213. | 237. | 259. | 265. | 272. | 286. | 292. |
| 1477 | 67. | 100. | 125. | 173. | 200. | 216. | 242. | 269. | 256. | 268. | 267. | 279. |
| 1478 | 57. | 91. | 128. | 166. | | | | | | | | |
| 1479 | 44. | 76. | 120. | 154. | | | | | | | | |
| 1480 | 42. | 71. | 115. | 152. | 185. | 205. | 218. | 242. | 244. | 263. | 273. | 278. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.

b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E27 (PAGE 7): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1481 | 48. | 76. | 116. | 155. | 184. | | | | | | | |
| 1482 | 47. | 75. | 112. | 149. | 172. | 200. | 215. | 231. | 243. | 256. | 270. | 279. |
| 1483 | 29. | 48. | 82. | 124. | 153. | 183. | 202. | 221. | 231. | 247. | 251. | 275. |
| 1484 | 28. | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | | |
| 1485 | 30. | 53. | 93. | 134. | 170. | | | | | | | |
| 1486 | 27. | 36. | 63. | 99. | 136. | 159. | 186. | 202. | 219. | 230. | 232. | 248. |
| 1487 | 46. | 78. | 115. | 146. | 168. | | | | | | | |
| 1488 | 46. | 78. | 119. | 153. | 185. | 209. | 241. | 262. | 280. | 300. | 312. | 329. |
| 1489 | 39. | 70. | 105. | 142. | 178. | | | | | | | |
| 1490 | 39. | 64. | 104. | 150. | 186. | 206. | 221. | 225. | 253. | 265. | 268. | 276. |
| 1491 | 43. | 73. | 102. | 140. | 169. | 192. | 219. | 231. | 240. | 246. | 248. | 261. |
| 1492 | 42. | 67. | 104. | 138. | 168. | | | | | | | |
| 1493 | 46. | 82. | 127. | 171. | 196. | | | | | | | |
| 1494 | 48. | 89. | 101. | 161. | 191. | 217. | 236. | 248. | 259. | 277. | 284. | 290. |
| 1495 | 44. | 78. | 110. | 144. | 164. | | | | | | | |
| 1496 | 44. | 78. | 116. | 154. | 176. | 193. | 217. | 235. | 240. | 250. | 265. | 271. |
| 1497 | 64. | 98. | 140. | 182. | 213. | 233. | 252. | 267. | 281. | 294. | 293. | 304. |
| 1498 | 53. | 55. | 93. | 141. | 182. | | | | | | | |
| 1499 | 43. | 71. | 107. | 140. | 169. | | | | | | | |
| 1500 | 39. | 66. | 100. | 139. | 167. | 184. | 205. | 216. | 230. | 235. | 238. | 254. |
| 1501 | 40. | 68. | 102. | 147. | 181. | | | | | | | |
| 1502 | 42. | 71. | 110. | 156. | 186. | 210. | 250. | 256. | 255. | 277. | 280. | 304. |
| 1503 | 43. | 72. | 104. | 143. | 173. | | | | | | | |
| 1504 | 39. | 67. | 103. | 142. | 174. | | | | | | | |
| 1505 | 40. | 66. | 99. | 135. | 161. | 184. | 208. | 223. | 236. | 247. | 258. | 273. |
| 1506 | 34. | 63. | 97. | 132. | 162. | | | | | | | |
| 1507 | 40. | 69. | 103. | 145. | 173. | 192. | 210. | 228. | 233. | 250. | 258. | 259. |
| 1508 | 54. | 89. | 130. | 171. | 202. | 230. | 247. | 264. | 271. | 288. | 296. | 300. |
| 1509 | 53. | 81. | 112. | 147. | 167. | | | | | | | |
| 1510 | 43. | 72. | 117. | 154. | 193. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E27 (PAGE 8): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1511 | 38. | 64. | 103. | 139. | 169. | 197. | 222. | 238. | 253. | 276. | 275. | 288. |
| 1512 | 46. | 75. | 113. | 157. | 182. | | | | | | | |
| 1513 | 43. | 75. | 111. | 150. | 175. | 201. | 217. | 233. | 247. | 253. | 256. | 268. |
| 1514 | 53. | 90. | 131. | 172. | 196. | 223. | 241. | 256. | 274. | 283. | 289. | 304. |
| 1515 | 47. | 73. | 108. | 143. | 167. | | | | | | | |
| 1516 | 45. | 84. | 121. | 152. | 181. | 202. | 217. | 237. | 242. | 257. | 270. | 274. |
| 1517 | 45. | 79. | 120. | 155. | 183. | 208. | 234. | 250. | 268. | 293. | 296. | 311. |
| 1518 | 36. | 64. | 105. | 149. | 182. | | | | | | | |
| 1519 | 34. | 58. | 95. | 134. | 162. | 190. | 211. | 229. | 242. | 247. | 262. | 264. |
| 1520 | 52. | 81. | 119. | 159. | | | | | | | | |
| 1521 | 50. | 74. | 107. | 140. | 159. | 180. | 198. | 216. | 225. | 236. | 248. | 251. |
| 1522 | 49. | 85. | 122. | 157. | | | | | | | | |
| 1523 | 45. | 72. | 102. | 136. | 159. | 175. | 194. | 211. | 219. | 227. | 241. | 251. |
| 1524 | 36. | 63. | 91. | 133. | 161. | 186. | 211. | 233. | 234. | 247. | 257. | 255. |
| 1525 | 35. | 60. | 91. | 130. | | | | | | | | |
| 1526 | 52. | 88. | 123. | 164. | | | | | | | | |
| 1527 | 48. | 79. | 119. | 157. | 184. | 201. | 225. | 240. | 251. | 268. | 269. | 282. |
| 1528 | 40. | 70. | 103. | 125. | 142. | 162. | 179. | 197. | 207. | 214. | 219. | 233. |
| 1529 | 34. | 50. | 85. | 114. | | | | | | | | |
| 1530 | 50. | 83. | 123. | 163. | | | | | | | | |
| 1531 | 47. | 76. | 117. | 160. | 180. | 208. | 220. | 246. | 252. | 254. | 264. | 272. |
| 1532 | 55. | 86. | 132. | 170. | | | | | | | | |
| 1533 | 56. | 92. | 136. | 175. | 199. | 226. | 239. | 258. | 274. | 286. | 289. | 305. |
| 1534 | 44. | 78. | 118. | 154. | 178. | 206. | 226. | 247. | 251. | 259. | 267. | 277. |
| 1535 | 38. | 72. | 114. | 154. | | | | | | | | |
| 1536 | 42. | 67. | 105. | 133. | | | | | | | | |
| 1537 | 37. | 58. | 94. | 127. | 158. | 188. | 205. | 227. | 234. | 242. | 251. | 262. |
| 1538 | 36. | 60. | 98. | 135. | | | | | | | | |
| 1539 | 47. | 73. | 112. | 153. | 182. | 210. | 232. | 252. | 267. | 278. | 281. | 291. |
| 1540 | 44. | 71. | 102. | 138. | | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E27 (PAGE 9): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | | 30 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1541 | 34. | 53. | 84. | 115. | 144. | 165. | 181. | 191. | 205. | 220. | 228. | 247. |
| 1542 | 34. | 62. | 97. | 139. | 171. | | | | | | | |
| 1543 | 35. | 56. | 86. | 114. | 136. | | | | | | | |
| 1544 | 37. | 58. | 93. | 143. | 179. | 215. | 234. | 252. | 270. | 285. | 293. | 304. |
| 1545 | 33. | 62. | 104. | 140. | 169. | 199. | 218. | 232. | 247. | 263. | 265. | 282. |
| 1546 | 36. | 65. | 101. | 142. | 171. | 201. | 217. | 233. | 250. | 263. | 270. | 273. |
| 1547 | 34. | 58. | 91. | 135. | 165. | | | | | | | |
| 1548 | 34. | 58. | 88. | 124. | 152. | 174. | 194. | 205. | 220. | 234. | 233. | 251. |
| 1549 | 28. | FOUND DEAD ON DAY 8 POSTWEANING | | | | | | | | | | |
| 1550 | 33. | 54. | 80. | 108. | 132. | 148. | 171. | 189. | 201. | 209. | 217. | 224. |
| 1551 | 42. | 68. | 108. | 150. | 178. | | | | | | | |
| 1552 | 42. | 70. | 116. | 142. | 167. | 196. | 206. | 215. | 231. | 245. | 239. | 252. |
| 1553 | 38. | 59. | 85. | 119. | 144. | | | | | | | |
| 1554 | 44. | 70. | 108. | 147. | 172. | | | | | | | |
| 1555 | 39. | 64. | 94. | 133. | 164. | 182. | 201. | 214. | 221. | 231. | 238. | 250. |
| 1556 | 43. | 72. | 106. | 139. | 166. | | | | | | | |
| 1557 | 43. | 77. | 113. | 153. | 186. | 212. | 234. | 255. | 268. | 275. | 290. | 300. |
| 1558 | 30. | 57. | 91. | 131. | 163. | 180. | 205. | 225. | 236. | 256. | 264. | 272. |
| 1559 | 22. | FOUND DEAD ON DAY 6 POSTWEANING | | | | | | | | | | |
| 1560 | 43. | 74. | 110. | 145. | 171. | 186. | 200. | 215. | 234. | 241. | 248. | 258. |
| 1561 | 39. | 71. | 109. | 143. | 179. | | | | | | | |
| 1562 | c | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | |
| 1563 | c | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | | |
| 1564 | 36. | 63. | 97. | 129. | 156. | 175. | 195. | 206. | 214. | 226. | 234. | 239. |
| 1565 | 40. | 67. | 100. | 135. | 167. | 178. | 198. | 212. | 219. | 226. | 236. | 243. |
| 1566 | 44. | 73. | 107. | 141. | 176. | 207. | 226. | 240. | 258. | 272. | 275. | 252. |
| 1567 | 43. | 75. | 116. | 151. | 182. | | | | | | | |
| 1568 | 67. | 106. | 152. | 183. | 210. | 229. | 250. | 265. | 270. | 281. | 289. | 290. |
| 1569 | 58. | 89. | 123. | 151. | 168. | | | | | | | |
| 1570 | 39. | 70. | 108. | 146. | 178. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.
c. Value not recorded.

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TABLE E27 (PAGE 10): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | | 30 MG/KG/DAY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | 1 | 8 | 15 | 22 | 29 | 36 | 43 | 50 | 57 | 64 | 70a | PRECOHABITATION b |
| 1571 | 36. | 60. | 89. | 123. | 153. | 176. | 198. | 212. | 216. | 229. | 241. | 247. |
| 1572 | 44. | 68. | 106. | 150. | 188. | | | | | | | |
| 1573 | 42. | 71. | 110. | 156. | 190. | 212. | 234. | 250. | 265. | 280. | 286. | 302. |
| 1574 | 23. | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | | |
| 1575 | 23. | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | | |
| 1576 | 25. | 43. | 68. | 108. | 140. | 163. | 190. | 208. | 214. | 228. | 241. | 250. |
| 1577 | 33. | 54. | 85. | 126. | 154. | | | | | | | |
| 1578 | 35. | 61. | 98. | 135. | 161. | 186. | 207. | 221. | 226. | 235. | 246. | 251. |
| 1579 | 49. | 77. | 120. | 156. | 186. | 209. | 234. | 247. | 269. | 285. | 285. | 303. |
| 1580 | 46. | 73. | 104. | 145. | 180. | | | | | | | |
| 1581 | 48. | 76. | 112. | 149. | 177. | | | | | | | |
| 1582 | 39. | 57. | 91. | 125. | | | | | | | | |
| 1583 | 41. | 64. | 97. | 140. | 164. | 182. | 204. | 220. | 227. | 242. | 240. | 245. |
| 1584 | 33. | 58. | 94. | 128. | 148. | 171. | 200. | 215. | 222. | 235. | 245. | 251. |
| 1585 | 33. | 57. | 98. | 134. | | | | | | | | |
| 1586 | 37. | 62. | 96. | 131. | 152. | 168. | 183. | 198. | 210. | 217. | 227. | 231. |
| 1587 | 39. | 64. | 97. | 134. | 157. | 176. | 196. | 209. | 220. | 228. | 231. | 236. |
| 1588 | 45. | 73. | 112. | 149. | 169. | 194. | 220. | 230. | 244. | 259. | 255. | 275. |
| 1589 | 39. | 76. | 117. | 156. | 176. | 206. | 216. | 236. | 253. | 267. | 274. | 291. |
| 1590 | 45. | 73. | 107. | 136. | | | | | | | | |
| 1591 | 44. | 72. | 109. | 143. | 169. | 194. | 210. | 220. | 233. | 246. | 246. | 262. |
| 1592 | 44. | 67. | 103. | 140. | | | | | | | | |
| 1593 | 46. | 78. | 120. | 152. | 195. | 217. | 228. | 239. | 244. | 259. | 265. | 275. |
| 1594 | 47. | 73. | 106. | 139. | | | | | | | | |
| 1595 | 45. | 74. | 115. | 148. | | | | | | | | |
| 1596 | 46. | 71. | 111. | 147. | | | | | | | | |
| 1597 | 31. | 59. | 94. | 133. | | | | | | | | |
| 1598 | 36. | 65. | 106. | 141. | 172. | 195. | 215. | 239. | 240. | 252. | 257. | 266. |
| 1599 | 44. | 69. | 110. | 154. | | | | | | | | |
| 1600 | 44. | 69. | 110. | 149. | 180. | 206. | 226. | 239. | 255. | 273. | 278. | 290. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because body weight values were recorded at weekly intervals, based on each rat's day postweaning, day 70 postweaning was the last day on which the youngest rats (in this group) had a body weight value recorded.
b. Precohabitation body weights were recorded on the day cohabitation was begun for the F1 generation rats; at that time these rats were 92 to 106 days of age.

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TABLE E28 (PAGE 1): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | | | 0 MG/KG/DAY | |
|---|---|---|---|---|---|---|---|
| PREGNANCY STATUS DAY | 0 | 7 | 10 | 14 | 18 | 21 | 25 |
| 1302 P | 236. | 262. | 269. | 287. | 324. | 366. | |
| 1304 P | 266. | 294. | 311. | 324. | 371. | 410. | |
| 1306 P | 273. | 306. | 314. | 341. | 391. | 441. | |
| 1308 P | 269. | 291. | 298. | 321. | 377. | | |
| 1310 P | 303. | 332. | 342. | 360. | 417. | 451. | |
| 1312 P | 305. | 327. | 338. | 360. | 374. | 385. | |
| 1313 P | 264. | 288. | 299. | 316. | 363. | 400. | |
| 1316 NP | 299. | 304. | 315. | 314. | 315. | 308. | 311. |
| 1318 P | 322. | 366. | 379. | 400. | 456. | 498. | |
| 1321 P | 292. | 325. | 340. | 349. | 409. | 454. | |
| 1325 P | 264. | 296. | 312. | 328. | 367. | 398. | |
| 1328 P | 284. | 313. | 322. | 344. | 382. | 429. | |
| 1330 P | 253. | 274. | 285. | 298. | 341. | 382. | |
| 1331 P | 277. | 307. | 319. | 338. | 376. | 418. | |
| 1334 P | 239. | 258. | 271. | 286. | 324. | 351. | |
| 1335 P | 271. | 309. | 327. | 333. | 390. | 425. | |
| 1336 P | 264. | 296. | 321. | 336. | 396. | 428. | |
| 1338 P | 297. | 324. | 336. | 354. | 412. | 457. | |
| 1340 P | 282. | 312. | 324. | 351. | 380. | 425. | |
| 1341 P | 286. | 314. | 328. | 345. | 390. | 416. | |
| 1342 P | 281. | 314. | 334. | 346. | 395. | 422. | |
| 1344 P | 267. | 298. | 313. | 332. | 373. | 421. | |
| 1345 P | 293. | 311. | 326. | 346. | 408. | 450. | |
| 1346 P | 250. | 278. | 291. | 309. | 344. | 365. | |
| 1348 P | 271. | 306. | 314. | 325. | 382. | 430. | |
| 1350 P | 292. | 321. | 329. | 351. | 404. | 442. | |
| 1353 P | 255. | 293. | 302. | 322. | 352. | 397. | |
| 1355 P | 295. | 324. | 342. | 349. | 404. | 441. | |
| 1358 NP | MATING NOT CONFIRMED | | | | | | |
| 1359 P | 245. | 273. | 284. | 299. | 343. | 382. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

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TABLE E28 (PAGE 2): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | | DOSAGE GROUP II | | | | | | 1 MG/KG/DAY |
|---|---|---|---|---|---|---|---|---|
| | PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 |
| 1362 | P | 248. | 268. | 275. | 289. | 309. | 336. | |
| 1363 | P | 277. | 298. | 315. | 327. | 379. | 422. | |
| 1364 | P | 272. | 299. | 311. | 324. | 376. | 413. | |
| 1367 | P | 225. | 262. | 272. | 292. | 334. | 385. | |
| 1368 | P | 246. | 289. | 294. | 311. | 378. | 413. | |
| 1371 | P | 305. | 333. | 355. | 376. | 422. | 469. | |
| 1375 | P | 277. | 292. | 303. | 324. | 378. | 419. | |
| 1376 | P | 318. | 354. | 360. | 378. | 440. | 474. | |
| 1378 | NP | 292. | 306. | 304. | 306. | 316. | 309. | 314. |
| 1379 | P | 303. | 339. | 353. | 370. | 406. | 440. | |
| 1381 | P | 255. | 279. | 277. | 298. | 344. | 381. | |
| 1382 | P | 264. | 283. | 297. | 310. | 358. | 400. | |
| 1383 | P | 275. | 297. | 310. | 323. | 367. | 395. | |
| 1384 | P | 237. | 261. | 276. | 293. | 347. | 378. | |
| 1387 | P | 300. | 330. | 344. | 373. | 434. | 477. | |
| 1389 | P | 301. | 328. | 345. | 359. | 418. | 453. | |
| 1392 | P | 322. | 353. | 367. | 380. | 429. | | |
| 1393 | P | 278. | 308. | 322. | 336. | 385. | 417. | |
| 1397 | P | 290. | 314. | 340. | 360. | 402. | 432. | |
| 1399 | P | 271. | 297. | 307. | 324. | 377. | 415. | |
| 1401 | P | 255. | 279. | 299. | 309. | 357. | | |
| 1404 | P | 282. | 320. | 334. | 365. | 401. | 443. | |
| 1407 | P | 270. | 290. | 306. | 320. | 376. | 407. | |
| 1409 | P | 280. | 306. | 320. | 341. | 374. | 423. | |
| 1410 | P | 298. | 333. | 346. | 361. | 415. | 466. | |
| 1413 | P | 279. | 310. | 322. | 334. | 363. | 406. | |
| 1415 | P | 262. | 292. | 302. | 314. | 359. | 395. | |
| 1416 | P | 264. | 303. | 311. | 329. | 377. | 413. | |
| 1418 | P | 256. | 278. | 312. | 310. | 358. | 395. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E28 (PAGE 3): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | | DOSAGE GROUP III | | | | | 3 MG/KG/DAY | |
|---|---|---|---|---|---|---|---|---|
| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 | |
| 1421 | P | 264. | 282. | 297. | 320. | 380. | 417. | |
| 1424 | P | 275. | 297. | 320. | 328. | 390. | | |
| 1426 | P | 301. | 342. | 359. | 371. | 434. | 465. | |
| 1428 | P | 298. | 320. | 339. | 356. | 411. | 444. | |
| 1430 | P | 321. | 348. | 360. | 387. | 458. | 494. | |
| 1431 | P | 296. | 322. | 344. | 366. | 429. | 472. | |
| 1433 | P | 300. | 324. | 335. | 362. | 432. | | |
| 1436 | P | 301. | 340. | 352. | 371. | 413. | 452. | |
| 1437 | P | 255. | 285. | 299. | 314. | 361. | | |
| 1439 | P | 296. | 323. | 335. | 366. | 424. | 450. | |
| 1442 | P | 268. | 303. | 314. | 327. | 356. | 379. | |
| 1443 | P | 301. | 318. | 329. | 342. | 390. | 427. | |
| 1446 | NP | 262. | 287. | 293. | 301. | 295. | 297. | 296. |
| 1448 | P | 292. | 316. | 327. | 342. | 406. | 445. | |
| 1450 | P | 278. | 297. | 308. | 320. | 369. | 406. | |
| 1452 | P | 282. | 312. | 331. | 347. | 395. | | |
| 1455 | P | 305. | 338. | 351. | 370. | 411. | | |
| 1456 | P | 274. | 301. | 315. | 328. | 365. | 385. | |
| 1458 | NP | 270. | 297. | 301. | 316. | 321. | 325. | 334. |
| 1459 | P | 315. | 345. | 359. | 369. | 420. | 448. | |
| 1461 | P | 293. | 315. | 332. | 344. | 382. | 417. | |
| 1463 | P | 274. | 298. | 314. | 336. | 396. | 425. | |
| 1465 | P | 296. | 318. | 335. | 357. | 416. | 438. | |
| 1468 | P | 271. | 304. | 316. | 335. | 379. | | |
| 1469 | P | 265. | 287. | 304. | 319. | 368. | 400. | |
| 1472 | P | 264. | 293. | 300. | 315. | 356. | 390. | |
| 1474 | P | 257. | 284. | 301. | 316. | 362. | 394. | |
| 1476 | P | 295. | 330. | 346. | 364. | 411. | | |
| 1477 | P | 283. | 299. | 303. | 316. | 370. | | |
| 1480 | P | 271. | 300. | 306. | 318. | 370. | 407. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

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TABLE E28 (PAGE 4): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | | DOSAGE GROUP IV | | | | | 10 MG/KG/DAY | |
|---|---|---|---|---|---|---|---|---|
| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 | |
| 1482 | P | 277. | 321. | 332. | 358. | 414. | 449. | |
| 1483 | NP | 275. | 279. | 281. | 284. | 288. | 293. | 290. |
| 1486 | P | 237. | 266. | 285. | 308. | 352. | 389. | |
| 1488 | P | 326. | 354. | 366. | 381. | 444. | 468. | |
| 1490 | P | 274. | 302. | 310. | 340. | 395. | 437. | |
| 1491 | P | 259. | 280. | 293. | 304. | 351. | 390. | |
| 1494 | P | 296. | 330. | 337. | 353. | 385. | 431. | |
| 1496 | P | 271. | 293. | 308. | 322. | 386. | 424. | |
| 1497 | P | 304. | 337. | 348. | 365. | 391. | 426. | |
| 1500 | P | 252. | 271. | 286. | 308. | 363. | 400. | |
| 1502 | P | 296. | 329. | 339. | 351. | 393. | 430. | |
| 1505 | P | 272. | 289. | 299. | 314. | 366. | 399. | |
| 1507 | P | 262. | 293. | 299. | 314. | 369. | | |
| 1508 | P | 296. | 327. | 344. | 358. | 399. | 437. | |
| 1511 | NP | 296. | 319. | 329. | 338. | 338. | 339. | 335. |
| 1513 | P | 275. | 295. | 303. | 316. | 372. | 407. | |
| 1514 | P | 294. | 324. | 336. | 348. | 402. | 437. | |
| 1516 | P | 281. | 304. | 309. | 334. | 379. | | |
| 1517 | P | 310. | 344. | 350. | 368. | 430. | | |
| 1519 | P | 261. | 289. | 296. | 313. | 375. | 413. | |
| 1521 | P | 242. | 269. | 276. | 289. | 329. | 373. | |
| 1523 | P | 252. | 288. | 296. | 313. | 347. | 384. | |
| 1524 | P | 250. | 290. | 299. | 309. | 332. | 342. | |
| 1527 | P | 284. | 303. | 312. | 335. | 387. | 434. | |
| 1528 | P | 230. | 259. | 274. | 292. | 339. | 360. | |
| 1531 | P | 270. | 306. | 316. | 335. | 381. | 429. | |
| 1533 | P | 291. | 324. | 339. | 360. | 434. | 459. | |
| 1534 | P | 277. | 304. | 309. | 319. | 373. | 407. | |
| 1537 | P | 260. | 289. | 304. | 322. | 371. | 400. | |
| 1539 | P | 300. | 313. | 326. | 351. | 399. | 452. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E28 (PAGE 5): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | | | 30 MG/KG/DAY | |
|---|---|---|---|---|---|---|---|
| PREGNANCY STATUS | DAY 0 | 7 | 10 | 14 | 18 | 21 | 25 |
| 1541 P | 247. | 259. | 273. | 287. | 347. | 370. | |
| 1544 P | 300. | 330. | 345. | 371. | 405. | 452. | |
| 1545 P | 269. | 299. | 310. | 334. | 408. | 455. | |
| 1546 P | 277. | 304. | 311. | 330. | 371. | | |
| 1548 P | 248. | 274. | 282. | 296. | 354. | | |
| 1550 P | 224. | 247. | 265. | 280. | 333. | 361. | |
| 1552 P | 257. | 276. | 290. | 303. | 343. | 381. | |
| 1555 P | 254. | 277. | 286. | 298. | 338. | 382. | |
| 1557 P | 294. | 314. | 322. | 349. | 406. | 435. | |
| 1558 P | 268. | 302. | 319. | 341. | 393. | 434. | |
| 1560 P | 258. | 288. | 302. | 314. | 368. | 401. | |
| 1564 P | 240. | 256. | 272. | 286. | 338. | 373. | |
| 1565 P | 237. | 262. | 274. | 292. | 340. | 377. | |
| 1566 P | 288. | 306. | 318. | 337. | 384. | 427. | |
| 1568 P | 280. | 295. | 308. | 326. | 390. | 430. | |
| 1571 P | 236. | 265. | 280. | 291. | 342. | | |
| 1573 P | 299. | 317. | 334. | 351. | 411. | 441. | |
| 1576 P | 244. | 276. | 282. | 305. | 360. | 394. | |
| 1578 NP | 249. | 258. | 254. | 261. | 264. | 260. | 268. |
| 1579 P | 299. | 321. | 332. | 344. | 408. | | |
| 1583 P | 238. | 278. | 283. | 301. | 356. | 378. | |
| 1584 P | 247. | 273. | 277. | 289. | 324. | 332. | |
| 1586 P | 230. | 260. | 269. | 284. | 321. | 359. | |
| 1587 P | 230. | 260. | 273. | 287. | 340. | 368. | |
| 1588 P | 269. | 295. | 309. | 325. | 377. | 401. | |
| 1589 P | 282. | 315. | 330. | 348. | 404. | | |
| 1591 P | 254. | 282. | 293. | 308. | 361. | 395. | |
| 1593 P | 272. | 292. | 308. | 323. | 347. | 366. | |
| 1598 P | 268. | 292. | 308. | 318. | 359. | 416. | |
| 1600 P | 293. | 319. | 332. | 348. | 405. | 453. | |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E29 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | | 0 MG/KG/DAY | |
|---|---|---|---|---|---|---|
| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
| 1302 | 267. | 284. | 299. | 303. | 298. | 284. |
| 1304 | 304. | 324. | 331. | 343. | 332. | 320. |
| 1306 | 324. | 338. | 346. | 363. | 341. | 335. |
| 1308 | 302. | 318. | 329. | 352. | 340. | 357. |
| 1310 | 342. | 346. | 345. | 361. | 335. | 331. |
| 1312 | 334. | 329. | 339. | 333. | 339. | 336. |
| 1313 | 292. | 308. | 316. | 289. | 318. | 298. |
| 1316 | NOT PREGNANT | | | | | |
| 1318 | 370. | 385. | 396. | 398. | 412. | 369. |
| 1321 | 326. | 338. | 352. | 357. | 345. | 329. |
| 1325 | 308. | 305. | 315. | 318. | 314. | 323. |
| 1328 | 326. | 329. | 349. | 363. | 356. | 328. |
| 1330 | 265. | 285. | 258. | 297. | 309. | 280. |
| 1331 | 322. | 323. | 330. | 336. | 322. | 300. |
| 1334 | 276. | 272. | 287. | 285. | 307. | 284. |
| 1335 | 327. | 331. | 333. | 327. | 346. | 324. |
| 1336 | 311. | 341. | 349. | 364. | 331. | 331. |
| 1338 | 350. | 357. | 359. | 330. | 377. | 345. |
| 1340 | 321. | 317. | 325. | 357. | 354. | 338. |
| 1341 | 328. | 331. | 329. | 323. | 341. | 316. |
| 1342 | 312. | 326. | 325. | 321. | 331. | 294. |
| 1344 | 314. | 310. | 328. | 342. | 330. | 333. |
| 1345 | 323. | 338. | 351. | 331. | 369. | 364. |
| 1346 | 301. | 293. | 303. | 308. | 314. | 325. |
| 1348 | 307. | 305. | 321. | 348. | 331. | 339. |
| 1350 | 329. | 330. | 344. | 348. | 355. | 339. |
| 1353 | 296. | 292. | 299. | 328. | 322. | 293. |
| 1355 | 334. | 332. | 349. | 352. | 340. | 313. |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | |
| 1359 | 271. | 279. | 298. | 318. | 324. | 313. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E29 (PAGE 2): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | |
|---|---|---|---|---|---|---|
| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
| 1362 | 273. | 277. | 284. | 298. | 288. | 287. |
| 1363 | 303. | 323. | 319. | 322. | 329. | 308. |
| 1364 | 309. | 319. | 326. | 329. | 315. | 323. |
| 1367 | 276. | 290. | 307. | 328. | 328. | 297. |
| 1368 | 287. | 315. | 339. | 343. | 339. | 310. |
| 1371 | 337. | 346. | 358. | 372. | 360. | 352. |
| 1375 | 303. | 319. | 328. | 332. | 321. | 299. |
| 1376 | 359. | 370. | 369. | 384. | 359. | 360. |
| 1378 | NOT PREGNANT | | | | | |
| 1379 | 355. | 341. | 362. | 385. | 367. | 355. |
| 1381 | 288. | 289. | 299. | 312. | 307. | 282. |
| 1382 | 296. | 312. | 323. | 336. | 310. | 308. |
| 1383 | 321. | 328. | 333. | 344. | 368. | 350. |
| 1384 | 288. | 306. | 313. | 320. | 312. | 262. |
| 1387 | 351. | 355. | 367. | 376. | 358. | 338. |
| 1389 | 340. | 340. | 363. | 353. | 357. | 344. |
| 1392 | 357. | 346. | 356. | 362. | 361. | 347. |
| 1393 | 324. | 332. | 338. | 345. | 355. | 330. |
| 1397 | 330. | 334. | 355. | 345. | 365. | 331. |
| 1399 | 310. | 309. | 322. | 336. | 318. | 320. |
| 1401 | 278. | 305. | 315. | 306. | 310. | 297. |
| 1404 | 337. | 341. | 344. | 359. | 349. | 332. |
| 1407 | 299. | 316. | 328. | 335. | 344. | 325. |
| 1409 | 327. | 323. | 333. | 337. | 340. | 327. |
| 1410 | 338. | 339. | 356. | 359. | 363. | 344. |
| 1413 | 322. | 312. | 336. | 360. | 343. | 320. |
| 1415 | 300. | 304. | 321. | 320. | 335. | 339. |
| 1416 | 315. | 311. | 319. | 321. | 336. | 303. |
| 1418 | 290. | 306. | 319. | 326. | 329. | 317. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E29 (PAGE 3): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | |
|---|---|---|---|---|---|---|
| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
| 1421 | 297. | 312. | 320. | 331. | 313. | 326. |
| 1424 | 326. | 321. | 321. | 336. | 330. | 307. |
| 1426 | 368. | 364. | 374. | 371. | 376. | 369. |
| 1428 | 341. | 338. | 353. | 353. | 358. | 334. |
| 1430 | 366. | 357. | 357. | 367. | 370. | 308. |
| 1431 | 348. | 345. | 364. | 358. | 379. | 358. |
| 1433 | 350. | 355. | 364. | 350. | 337. | 314. |
| 1436 | 347. | 353. | 357. | 359. | 347. | 341. |
| 1437 | 290. | 309. | 320. | 306. | 314. | 311. |
| 1439 | 340. | 352. | 371. | 347. | 370. | 361. |
| 1442 | 309. | 312. | 330. | 338. | 338. | 344. |
| 1443 | 327. | 342. | 341. | 356. | 357. | 336. |
| 1446 | NOT PREGNANT | | | | | |
| 1448 | 328. | 326. | 350. | 361. | 344. | 343. |
| 1450 | 307. | 313. | 316. | 315. | 324. | 331. |
| 1452 | 324. | 310. | 317. | 327. | 313. | 301. |
| 1455 | 351. | 342. | 358. | 366. | 335. | 332. |
| 1456 | 328. | 329. | 334. | 333. | 343. | 329. |
| 1458 | NOT PREGNANT | | | | | |
| 1459 | 349. | 363. | 380. | 375. | 378. | 368. |
| 1461 | 333. | 349. | 348. | 362. | 351. | 336. |
| 1463 | 316. | 315. | 326. | 330. | 319. | 302. |
| 1465 | 324. | 330. | 343. | 348. | 337. | 297. |
| 1468 | 309. | 315. | 316. | 342. | 330. | 300. |
| 1469 | 298. | 296. | 319. | 341. | 353. | 317. |
| 1472 | 301. | 303. | 317. | 324. | 338. | 309. |
| 1474 | 284. | 289. | 296. | 322. | 320. | 310. |
| 1476 | 348. | 326. | 353. | 370. | 366. | 358. |
| 1477 | 297. | 313. | 317. | 357. | 333. | 335. |
| 1480 | 309. | 324. | 326. | 353. | 340. | 340. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E29 (PAGE 4): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY | |
|---|---|---|---|---|---|---|
| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
| 1482 | 322. | 326. | 312. | 315. | 331. | 313. |
| 1483 | NOT PREGNANT | | | | | |
| 1486 | 276. | 291. | 300. | 308. | 317. | 316. |
| 1488 | 351. | 350. | 354. | 367. | 353. | 359. |
| 1490 | 317. | 327. | 331. | 353. | 356. | 368. |
| 1491 | 281. | 292. | 305. | 311. | 319. | 316. |
| 1494 | 324. | 340. | 341. | 374. | 369. | 353. |
| 1496 | 313. | 310. | 313. | 329. | 324. | 319. |
| 1497 | 347. | 342. | 378. | 385. | 375. | 355. |
| 1500 | 287. | 300. | 306. | 328. | 315. | 302. |
| 1502 | 343. | 344. | 348. | 350. | 341. | 322. |
| 1505 | 296. | 294. | 291. | 298. | 321. | 318. |
| 1507 | 301. | 308. | 309. | 333. | 334. | 341. |
| 1508 | 353. | 348. | 355. | 353. | 332. | 338. |
| 1511 | NOT PREGNANT | | | | | |
| 1513 | 293. | 308. | 323. | 341. | 317. | 250. |
| 1514 | 320. | 333. | 341. | 358. | 343. | 325. |
| 1516 | 309. | 317. | 327. | 347. | 329. | 316. |
| 1517 | 357. | 333. | 344. | 351. | 346. | 325. |
| 1519 | 295. | 307. | 320. | 328. | 322. | 317. |
| 1521 | 280. | 276. | 294. | 299. | 314. | 312. |
| 1523 | 294. | 306. | 319. | 327. | 328. | 313. |
| 1524 | 321. | 318. | 311. | 318. | 319. | 326. |
| 1527 | 325. | 333. | 328. | 355. | 326. | 315. |
| 1528 | 282. | 291. | 284. | 306. | 307. | 310. |
| 1531 | 319. | 328. | 341. | 349. | 362. | 350. |
| 1533 | 320. | 327. | 342. | 336. | 345. | 347. |
| 1534 | 309. | 305. | 318. | 313. | 343. | 316. |
| 1537 | 302. | 303. | 310. | 318. | 303. | 306. |
| 1539 | 332. | 343. | 363. | 358. | 373. | 355. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E29 (PAGE 5): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | | | 30 MG/KG/DAY |
|---|---|---|---|---|---|---|
| DAY | 1 | 5 | 8 | 11 | 15 | 22 |
| 1541 | 264. | 281. | 278. | 294. | 291. | 296. |
| 1544 | 360. | 350. | 348. | 376. | 371. | 342. |
| 1545 | 318. | 322. | 340. | 342. | 332. | 298. |
| 1546 | 300. | 317. | 279. | 310. | 338. | 329. |
| 1548 | 296. | 276. | 280. | 295. | 303. | 306. |
| 1550 | 265. | 271. | 280. | 276. | 293. | 298. |
| 1552 | 284. | 302. | 315. | 324. | 310. | 319. |
| 1555 | 276. | 288. | 294. | 317. | 285. | 312. |
| 1557 | 325. | 324. | 333. | 348. | 329. | 319. |
| 1558 | 320. | 336. | 330. | 339. | 343. | 288. |
| 1560 | 297. | 320. | 325. | 313. | 348. | 325. |
| 1564 | 265. | 277. | 277. | 319. | 306. | 309. |
| 1565 | 280. | 280. | 294. | 291. | 307. | 275. |
| 1566 | 324. | 312. | 314. | 322. | 320. | 324. |
| 1568 | 324. | 322. | 336. | 343. | 338. | 339. |
| 1571 | 292. | 279. | 288. | 311. | 289. | 304. |
| 1573 | 341. | 334. | 344. | 350. | 355. | 336. |
| 1576 | 284. | 271. | 288. | 299. | 303. | 292. |
| 1578 | NOT PREGNANT | | | | | |
| 1579 | 320. | 328. | 327. | 329. | 356. | 346. |
| 1583 | 306. | 308. | 319. | 331. | 325. | 303. |
| 1584 | 296. | 291. | 295. | 295. | 302. | 294. |
| 1586 | 270. | 272. | 286. | 303. | 289. | 294. |
| 1587 | 278. | 290. | 286. | 282. | 290. | 300. |
| 1588 | 312. | 322. | 321. | 340. | 350. | 322. |
| 1589 | 326. | 317. | 334. | 339. | 364. | 354. |
| 1591 | 296. | 304. | 310. | 322. | 306. | 318. |
| 1593 | 314. | 322. | 318. | 328. | 346. | 342. |
| 1598 | 301. | 302. | 303. | 320. | 333. | 317. |
| 1600 | 325. | 332. | 344. | 373. | 364. | 354. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E30 (PAGE 1): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | | | | | | | 0 MG/KG/DAY |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1301 | 63. | 110. | 128. | 129. | | | | | | |
| 1302 | 61. | 112. | 125. | 119. | 118. | 119. | 109. | 117. | 115. | 102. |
| 1303 | 70. | 115. | 133. | 127. | | | | | | |
| 1304 | 61. | 117. | 140. | 145. | 132. | 132. | 127. | 138. | 131. | 107. |
| 1305 | 89. | 144. | 171. | 197. | | | | | | |
| 1306 | 71. | 125. | 135. | 133. | 131. | 131. | 138. | 134. | 128. | 112. |
| 1307 | 68. | 123. | 129. | 136. | | | | | | |
| 1308 | 89. | 115. | 124. | 137. | 131. | 130. | 193. | 130. | 134. | 109. |
| 1309 | 73. | 113. | 140. | 159. | | | | | | |
| 1310 | 74. | 131. | 147. | 154. | 163. | 167. | 161. | 193. | 162. | 125. |
| 1311 | 76. | 110. | 114. | 120. | | | | | | |
| 1312 | 102. | 116. | 143. | 147. | 180. | 167. | 180. | 168. | 181. | 141. |
| 1313 | 64. | 106. | 123. | 126. | 127. | 125. | 126. | 129. | 127. | 112. |
| 1314 | 91. | 146. | 147. | 183. | | | | | | |
| 1315 | 98. | 155. | 181. | 174. | | | | | | |
| 1316 | 77. | 119. | 137. | 136. | 145. | 149. | 151. | 148. | 141. | 116. |
| 1317 | 56. | 140. | 147. | 143. | | | | | | |
| 1318 | 69. | 107. | 154. | 153. | 157. | 189. | 157. | b | 169. | 128. |
| 19779 | 61. | 97. | 129. | | | | | | | |
| 19780 | 78. | 126. | 159. | | | | | | | |
| 1321 | 72. | 123. | 136. | 126. | 146. | 180. | 210. | 158. | 159. | 123. |
| 1322 | 71. | 106. | 127. | 124. | | | | | | |
| 1323 | 63. | 110. | 130. | 121. | | | | | | |
| 1324 | 64. | 104. | 124. | 112. | | | | | | |
| 1325 | 63. | 96. | 134. | 136. | 146. | 145. | 174. | 164. | 165. | 106. |
| 1326 | 64. | 120. | 129. | 134. | | | | | | |
| 1327 | 58. | 102. | 144. | 155. | | | | | | |
| 1328 | 48. | 110. | 131. | 132. | 148. | 148. | 156. | 159. | 167. | 142. |
| 1329 | 74. | 112. | c | 116. | | | | | | |
| 1330 | 69. | 104. | 126. | 146. | 122. | 121. | 130. | 118. | 120. | 108. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Soiled feed precluded the calculation of this value.
c. Wet feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E30 (PAGE 2): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | | | 0 MG/KG/DAY | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1331 | 65. | 108. | 118. | 133. | 166. | 129. | b | 137. | 140. | 104. |
| 1332 | 57. | 119. | 129. | 133. | | | | | | |
| 1333 | 60. | 104. | 125. | 131. | | | | | | |
| 1334 | 55. | 101. | 127. | 139. | 129. | 130. | 142. | 120. | 122. | 108. |
| 1335 | 71. | 92. | 125. | 134. | 135. | 140. | 145. | 145. | 140. | 130. |
| 1336 | 64. | 112. | 116. | 126. | 128. | 138. | 132. | 139. | 136. | b |
| 1337 | 70. | 105. | 127. | | | | | | | |
| 1338 | 77. | 118. | 125. | 134. | 144. | 146. | 171. | 168. | 186. | 122. |
| 1339 | 62. | 107. | 139. | | | | | | | |
| 1340 | 57. | 106. | 126. | 134. | 127. | 120. | 140. | 126. | 129. | 117. |
| 1341 | 72. | 128. | 122. | 128. | 135. | 137. | 169. | 158. | 157. | 108. |
| 1342 | 73. | 107. | 114. | 115. | 124. | 132. | 139. | 170. | 149. | 108. |
| 1343 | 77. | 131. | 142. | | | | | | | |
| 1344 | 77. | 129. | 140. | 135. | 145. | c | b | 152. | 137. | 99. |
| 1345 | 79. | 127. | 134. | 136. | 146. | 151. | 182. | 167. | b | 130. |
| 1346 | 80. | 124. | 141. | 139. | 146. | 145. | 174. | 162. | 166. | 122. |
| 1347 | 63. | 109. | 128. | | | | | | | |
| 1348 | 69. | 110. | 123. | 124. | 163. | 125. | 133. | 132. | 139. | 108. |
| 1349 | 70. | 114. | 129. | | | | | | | |
| 1350 | 84. | 137. | 147. | 142. | 139. | 133. | 160. | 178. | 175. | 119. |
| 1351 | 80. | 136. | 148. | | | | | | | |
| 1352 | 80. | 124. | 143. | | | | | | | |
| 1353 | 55. | 94. | 111. | 113. | 114. | 126. | 121. | 140. | 118. | 104. |
| 1354 | 76. | 102. | 114. | | | | | | | |
| 1355 | 84. | 124. | 140. | 140. | 150. | 151. | 154. | 167. | 136. | 129. |
| 1356 | 85. | 129. | 145. | | | | | | | |
| 1357 | 67. | 106. | 127. | | | | | | | |
| 1358 | 66. | 106. | 119. | 120. | 132. | 140. | 130. | 125. | 126. | 105. |
| 1359 | 74. | 87. | 116. | 127. | 134. | 138. | 127. | b | 139. | 110. |
| 1360 | 80. | 106. | | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.
c. Soiled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E30 (PAGE 3): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1361 | 63. | 98. | 117. | 114. | | | | | | |
| 1362 | 49. | 88. | 109. | 118. | 119. | 114. | 118. | 113. | 124. | 181. |
| 1363 | 61. | 99. | 136. | 127. | 133. | 139. | 134. | 136. | 134. | 116. |
| 1364 | 57. | 91. | 133. | 184. | 194. | b | b | b | 157. | 89. |
| 1365 | FOUND DEAD ON DAY 4 POSTWEANING | | | | | | | | | |
| 1366 | 63. | 79. | 129. | 109. | | | | | | |
| 1367 | 52. | 85. | 116. | 116. | 109. | 116. | 109. | 108. | 108. | 98. |
| 1368 | 69. | 115. | 142. | 131. | 140. | 144. | 150. | 157. | 174. | 148. |
| 1369 | 76. | 122. | 141. | 136. | | | | | | |
| 1370 | 63. | 98. | 129. | 152. | b | | | | | |
| 1371 | 65. | 113. | 130. | 138. | 145. | 159. | 175. | 150. | 157. | 127. |
| 1372 | 73. | 122. | 132. | 131. | | | | | | |
| 1373 | 68. | 110. | 139. | 196. | 221. | 152. | 137. | FOUND DEAD ON DAY 51 POSTWEANING | | |
| 1374 | 75. | 113. | 141. | 141. | | | | | | |
| 1375 | 62. | 103. | 130. | 140. | 134. | 130. | 132. | 130. | 133. | 113. |
| 1376 | 66. | 95. | 105. | 127. | 127. | 139. | 169. | 152. | 151. | 126. |
| 1377 | 44. | 92. | 131. | 151. | | | | | | |
| 1378 | 75. | 122. | 141. | 140. | 136. | 137. | 148. | 134. | 141. | 125. |
| 1379 | 69. | 116. | 146. | 136. | 141. | 152. | 164. | 156. | 157. | 129. |
| 1380 | 56. | 104. | 136. | 139. | | | | | | |
| 1381 | 62. | 101. | 124. | 117. | 121. | 128. | 138. | 134. | 128. | 115. |
| 1382 | 66. | 109. | 126. | 141. | 134. | 135. | 189. | 129. | 129. | 100. |
| 1383 | 49. | 94. | 126. | 147. | 131. | 133. | 189. | 133. | 131. | 108. |
| 1384 | 54. | 89. | 118. | 130. | 111. | 115. | 133. | 119. | 129. | 101. |
| 1385 | 80. | 122. | 137. | 133. | | | | | | |
| 1386 | 54. | 101. | 119. | 118. | | | | | | |
| 1387 | 70. | 114. | 136. | 134. | 161. | 153. | 200. | 153. | 157. | 126. |
| 1388 | 74. | 108. | 131. | 130. | | | | | | |
| 1389 | 71. | 106. | c | 127. | 150. | 151. | 179. | 156. | 165. | 126. |
| 1390 | 75. | 116. | c | 130. | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.
c. Wet feed precluded the calculation of this value.

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TABLE E30 (PAGE 4): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1391 | 68. | 101. | 129. | 132. | | | | | | |
| 1392 | 61. | 102. | 137. | 126. | 148. | b | 159. | 165. | 176. | 145. |
| 1393 | 65. | 89. | 130. | 127. | 129. | 127. | 122. | 108. | 129. | 106. |
| 1394 | 64. | 105. | 138. | 135. | | | | | | |
| 1395 | 59. | 105. | 129. | 130. | | | | | | |
| 1396 | 72. | 93. | 149. | 127. | | | | | | |
| 1397 | 81. | 126. | 152. | 151. | 150. | 161. | 152. | 139. | 135. | 125. |
| 1398 | 51. | 102. | 130. | 130. | | | | | | |
| 1399 | 77. | 118. | 136. | 126. | 136. | 138. | 142. | 134. | 126. | 107. |
| 1400 | 74. | 109. | 129. | 123. | | | | | | |
| 1401 | 79. | 102. | 125. | 137. | 123. | 129. | 154. | 124. | 116. | 108. |
| 1402 | 74. | 116. | 126. | 135. | | | | | | |
| 1403 | 68. | 106. | 128. | 121. | | | | | | |
| 1404 | 68. | 114. | 133. | 134. | 147. | 146. | 157. | 151. | 166. | 123. |
| 1405 | 57. | 91. | 123. | 142. | | | | | | |
| 1406 | 69. | 106. | 126. | 123. | | | | | | |
| 1407 | 71. | 125. | 144. | 116. | 154. | 157. | 173. | 154. | 141. | 129. |
| 1408 | 67. | 99. | 116. | 113. | | | | | | |
| 1409 | 64. | 102. | 113. | 125. | 133. | 122. | 136. | 151. | 109. | b |
| 1410 | 68. | 108. | 132. | 134. | 140. | 138. | 144. | 143. | 127. | 116. |
| 1411 | 69. | 106. | 117. | | | | | | | |
| 1412 | 73. | 116. | 126. | | | | | | | |
| 1413 | 67. | 114. | 143. | 147. | 130. | 129. | 136. | 144. | 138. | 116. |
| 1414 | 62. | 103. | 116. | | | | | | | |
| 1415 | 60. | 100. | 121. | 126. | 133. | 140. | 150. | 149. | 146. | 105. |
| 1416 | 74. | 110. | 130. | 135. | 133. | 143. | 137. | 146. | 128. | 107. |
| 1417 | 72. | 108. | 126. | | | | | | | |
| 1418 | 62. | 95. | 110. | 112. | 117. | 120. | 252. | 204. | b | 96. |
| 1419 | 64. | 102. | 124. | b | | | | | | |
| 1420 | 52. | 99. | 120. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.

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TABLE E30 (PAGE 5): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1421 | 61. | 99. | 124. | 121. | 123. | 121. | 124. | 126. | 127. | 106. |
| 1422 | 67. | 105. | 125. | 121. | | | | | | |
| 1423 | 67. | 109. | 130. | 140. | | | | | | |
| 1424 | 75. | 114. | 131. | 139. | 120. | 127. | 124. | 127. | 124. | 104. |
| 1425 | 66. | 116. | 149. | 173. | | | | | | |
| 1426 | 51. | 82. | 110. | 108. | 124. | 138. | 150. | 149. | 158. | 123. |
| 1427 | 68. | 120. | 144. | 153. | | | | | | |
| 1428 | 73. | 113. | 142. | 180. | 141. | 151. | 149. | 153. | 154. | 124. |
| 1429 | 70. | 111. | 141. | 161. | | | | | | |
| 1430 | 71. | 131. | 164. | 185. | 175. | 174. | 164. | 162. | 172. | 135. |
| 1431 | 51. | 103. | 129. | 147. | 140. | 145. | 150. | 151. | 141. | 123. |
| 1432 | FOUND DEAD ON DAY 7 POSTWEANING | | | | | | | | | |
| 1433 | 73. | 115. | 129. | 138. | 140. | 137. | 145. | 149. | 155. | 117. |
| 1434 | 61. | 108. | 134. | 145. | | | | | | |
| 1435 | 84. | 124. | 149. | 170. | | | | | | |
| 1436 | 73. | 129. | 142. | 144. | 140. | 130. | 150. | 143. | 143. | 130. |
| 1437 | 60. | 115. | 124. | 130. | 128. | 123. | 163. | 148. | 132. | 108. |
| 1438 | 69. | 117. | 121. | 110. | | | | | | |
| 1439 | 69. | 115. | 151. | 149. | 137. | 215. | 153. | 153. | 177. | 134. |
| 1440 | 74. | 127. | 146. | 157. | | | | | | |
| 1441 | 45. | 95. | 126. | 138. | | | | | | |
| 1442 | 67. | 99. | 130. | 134. | 135. | 162. | 158. | 136. | 138. | 130. |
| 1443 | 61. | 94. | 118. | 123. | 126. | 129. | 140. | 137. | 192. | 114. |
| 1444 | 49. | 93. | 133. | 130. | | | | | | |
| 1445 | 70. | 128. | 173. | 172. | | | | | | |
| 1446 | 69. | 112. | 120. | 121. | 132. | 130. | 235. | b | 124. | 114. |
| 1447 | 64. | 105. | 125. | c | | | | | | |
| 1448 | 72. | 106. | 134. | 135. | 142. | 145. | 177. | 128. | 130. | 117. |
| 1449 | 77. | 125. | c | 161. | b | | | | | |
| 1450 | 79. | 124. | c | 124. | 139. | 140. | 135. | 124. | 125. | 103. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.
c. Wet feed precluded the calculation of this value.

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TABLE E30 (PAGE 6): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1451 | 85. | 127. | 146. | 145. | | | | | | |
| 1452 | 70. | 129. | 133. | 135. | 276. | 163. | 182. | b | 205. | 122. |
| 1453 | 89. | 133. | 143. | 147. | | | | | | |
| 1454 | 74. | 126. | 143. | 136. | | | | | | |
| 1455 | 84. | 129. | 180. | 167. | 202. | b | 196. | b | 189. | 153. |
| 1456 | 85. | 117. | 128. | 117. | 123. | 117. | 123. | 110. | 122. | 96. |
| 1457 | 82. | 118. | 128. | 120. | | | | | | |
| 1458 | 82. | 121. | 145. | 145. | 137. | 132. | 127. | 123. | 111. | 109. |
| 1459 | 97. | 132. | 145. | 160. | 162. | 163. | 166. | 151. | 137. | 126. |
| 1460 | 80. | 101. | 135. | 143. | | | | | | |
| 1461 | 76. | 108. | 131. | 148. | 139. | 147. | 147. | 147. | 129. | 116. |
| 1462 | 72. | 100. | 123. | 111. | | | | | | |
| 1463 | 71. | 108. | 125. | 128. | 136. | 138. | 156. | 147. | 142. | 129. |
| 1464 | 86. | 131. | 142. | 148. | | | | | | |
| 1465 | 45. | 84. | 119. | 138. | 145. | 157. | 191. | b | 168. | 129. |
| 1466 | 49. | 96. | 127. | | | | | | | |
| 1467 | 62. | 101. | 142. | | | | | | | |
| 1468 | 59. | 97. | 117. | 116. | 115. | 125. | 152. | 148. | 145. | 109. |
| 1469 | 69. | 81. | 101. | 115. | 136. | 134. | 149. | 161. | 159. | 104. |
| 1470 | 64. | 103. | 125. | | | | | | | |
| 1471 | 72. | 125. | 124. | | | | | | | |
| 1472 | 71. | 120. | 122. | 121. | 119. | 130. | b | 170. | b | 101. |
| 1473 | 80. | 132. | 135. | | | | | | | |
| 1474 | 78. | 119. | 126. | 125. | 126. | 127. | 136. | 146. | b | 108. |
| 1475 | 62. | 103. | 117. | | | | | | | |
| 1476 | 75. | 118. | 145. | 144. | 150. | 153. | 162. | 150. | 151. | 123. |
| 1477 | 87. | 123. | 131. | 135. | 160. | 180. | 196. | 157. | 146. | 133. |
| 1478 | 73. | 130. | 147. | | | | | | | |
| 1479 | 73. | 121. | 136. | | | | | | | |
| 1480 | 67. | 113. | 136. | 132. | 141. | 158. | 134. | 126. | 126. | 119. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.

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TABLE E30 (PAGE 7): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1481 | 71. | 117. | 129. | 144. | | | | | | |
| 1482 | 83. | 117. | 144. | 140. | 125. | 127. | 130. | 132. | 125. | 118. |
| 1483 | 45. | 92. | 133. | 135. | 131. | 127. | 125. | 126. | 146. | 104. |
| 1484 | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | |
| 1485 | 56. | 110. | 145. | 170. | | | | | | |
| 1486 | 35. | 74. | 107. | 122. | 123. | 127. | 128. | 130. | 129. | 108. |
| 1487 | 79. | 127. | 138. | 137. | | | | | | |
| 1488 | 73. | 132. | 140. | 145. | 135. | 156. | 163. | 163. | 168. | 143. |
| 1489 | 67. | 105. | 139. | 145. | | | | | | |
| 1490 | 64. | 116. | 147. | 169. | 157. | 194. | 292. | 174. | 118. | b |
| 1491 | 73. | 101. | 133. | 120. | 133. | 146. | 189. | 150. | 146. | 122. |
| 1492 | 69. | 107. | 129. | 131. | | | | | | |
| 1493 | 84. | 123. | 150. | 140. | | | | | | |
| 1494 | 88. | 109. | 140. | 138. | 138. | 168. | 128. | 130. | 139. | 116. |
| 1495 | 89. | 124. | 128. | 125. | | | | | | |
| 1496 | 82. | 116. | 133. | 129. | 124. | 129. | 131. | 123. | 124. | 116. |
| 1497 | 89. | 128. | 145. | 146. | 149. | 149. | 165. | 149. | 138. | 120. |
| 1498 | 36. | 103. | 136. | 150. | | | | | | |
| 1499 | 65. | 104. | 127. | 133. | | | | | | |
| 1500 | 65. | 91. | 179. | c | b | 142. | 187. | 138. | 128. | 109. |
| 1501 | 70. | 115. | 141. | 138. | | | | | | |
| 1502 | 67. | 116. | 144. | 166. | 165. | 177. | 206. | 149. | 173. | 163. |
| 1503 | 69. | 104. | 113. | 122. | | | | | | |
| 1504 | 76. | 101. | 124. | 134. | | | | | | |
| 1505 | 65. | 110. | 136. | 133. | 131. | 139. | 139. | 140. | 135. | 123. |
| 1506 | 67. | 108. | 111. | 124. | | | | | | |
| 1507 | 66. | 93. | 123. | 130. | 124. | 126. | 132. | 123. | 121. | 104. |
| 1508 | 85. | 127. | 139. | 152. | 146. | 146. | 141. | 138. | 136. | 109. |
| 1509 | 80. | 103. | 118. | 115. | | | | | | |
| 1510 | 75. | 135. | 178. | 155. | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.
c. Value was not recorded.

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TABLE E30 (PAGE 8): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP IV | | | | | | 10 MG/KG/DAY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1511 | 55. | 105. | 119. | 127. | 137. | 142. | 143. | 140. | 136. | 141. |
| 1512 | 85. | 124. | 134. | 136. | | | | | | |
| 1513 | 71. | 107. | 129. | 139. | 137. | 138. | 173. | 161. | 177. | 115. |
| 1514 | 83. | 117. | 128. | 133. | 137. | 140. | 190. | 166. | 145. | 114. |
| 1515 | 69. | 106. | 116. | 115. | | | | | | |
| 1516 | 91. | 110. | 124. | 126. | 137. | 143. | 157. | 146. | 150. | 128. |
| 1517 | 79. | 120. | 133. | 136. | 127. | 136. | 142. | 145. | 142. | 119. |
| 1518 | 68. | 118. | 138. | 147. | | | | | | |
| 1519 | 60. | 101. | 124. | 135. | 125. | 129. | 125. | 130. | 116. | 102. |
| 1520 | 70. | 125. | 127. | | | | | | | |
| 1521 | 71. | 95. | 119. | 121. | 121. | 124. | b | 138. | b | 116. |
| 1522 | 82. | 129. | 127. | | | | | | | |
| 1523 | 64. | 100. | 109. | 108. | 115. | 124. | b | b | b | 108. |
| 1524 | 62. | 76. | 114. | 118. | 130. | 137. | b | b | 187. | 109. |
| 1525 | 59. | 96. | 114. | | | | | | | |
| 1526 | 78. | 116. | 137. | | | | | | | |
| 1527 | 92. | 124. | 142. | 144. | 138. | 148. | b | b | b | 121. |
| 1528 | 68. | 122. | 118. | b | 114. | 116. | 151. | 211. | b | 92. |
| 1529 | 52. | 96. | 109. | | | | | | | |
| 1530 | 75. | 113. | 134. | | | | | | | |
| 1531 | 71. | 113. | 140. | 140. | 145. | 143. | 150. | 144. | 137. | 115. |
| 1532 | 75. | 127. | 142. | | | | | | | |
| 1533 | 81. | 132. | 144. | 129. | 151. | 135. | 152. | 153. | 151. | 121. |
| 1534 | 71. | 118. | 131. | 123. | 133. | 128. | 143. | 142. | 148. | 101. |
| 1535 | 68. | 113. | 129. | | | | | | | |
| 1536 | 67. | 119. | 120. | | | | | | | |
| 1537 | 58. | 102. | 123. | 130. | 132. | 134. | 199. | 143. | 176. | 119. |
| 1538 | 62. | 110. | 132. | | | | | | | |
| 1539 | 69. | 111. | 133. | 209. | 141. | 165. | 167. | 166. | 164. | 127. |
| 1540 | 70. | 102. | 119. | | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.

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TABLE E30 (PAGE 9): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 30 MG/KG/DAY | | | | | | | | | |
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1541 | 49. | 85. | 111. | 120. | 114. | 105. | 108. | 113. | 116. | 100. |
| 1542 | 57. | 101. | 133. | 135. | | | | | | |
| 1543 | 56. | 89. | 108. | 110. | | | | | | |
| 1544 | 58. | 102. | 142. | 157. | 152. | 157. | 158. | 168. | 165. | 136. |
| 1545 | 66. | 113. | 130. | 157. | 192. | 169. | 167. | 181. | 193. | 128. |
| 1546 | 65. | 95. | 119. | 119. | 123. | 130. | 142. | 141. | 137. | 116. |
| 1547 | 65. | 96. | 124. | 138. | | | | | | |
| 1548 | 62. | 95. | 117. | 128. | 115. | 130. | 133. | 133. | 139. | 111. |
| 1549 | 15. | FOUND DEAD ON DAY 8 POSTWEANING | | | | | | | | |
| 1550 | 57. | 92. | 107. | 115. | 104. | 126. | 121. | 123. | 127. | 108. |
| 1551 | 62. | 103. | 128. | 137. | | | | | | |
| 1552 | 65. | 107. | 120. | 123. | 119. | 113. | 116. | 126. | 125. | 99. |
| 1553 | 58. | 91. | 110. | 122. | | | | | | |
| 1554 | 66. | 104. | 128. | 136. | | | | | | |
| 1555 | 64. | 95. | 124. | 138. | 118. | 131. | 143. | 113. | 120. | 106. |
| 1556 | 70. | 96. | 110. | 112. | | | | | | |
| 1557 | 79. | 107. | 124. | 124. | 138. | 137. | 149. | 133. | 130. | 118. |
| 1558 | 63. | 106. | 137. | 143. | 136. | 146. | 248. | b | 141. | 124. |
| 1559 | FOUND DEAD ON DAY 6 POSTWEANING | | | | | | | | | |
| 1560 | 67. | 118. | 141. | b | 137. | 155. | 291. | 149. | 140. | b |
| 1561 | 72. | 116. | 135. | 144. | | | | | | |
| 1562 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | |
| 1563 | FOUND DEAD ON DAY 2 POSTWEANING | | | | | | | | | |
| 1564 | 65. | 100. | c | 125. | 133. | 130. | 170. | 136. | 129. | 114. |
| 1565 | 64. | 95. | c | 123. | 115. | 113. | 113. | 104. | 107. | 95. |
| 1566 | 70. | 113. | 123. | 131. | b | 139. | 137. | 140. | 132. | 110. |
| 1567 | 70. | 119. | 138. | 140. | | | | | | |
| 1568 | 83. | 133. | 138. | 134. | 138. | 143. | 145. | 132. | 129. | 109. |
| 1569 | 79. | 118. | 122. | 116. | | | | | | |
| 1570 | 62. | 93. | 130. | 126. | | | | | | |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.
c. Wet feed precluded the calculation of this value.

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TABLE E30 (PAGE 10): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | | | | | | | 30 MG/KG/DAY |
|---|---|---|---|---|---|---|---|---|---|---|
| STATUS | DAY 1 - 8 | 8 - 15 | 15 - 22 | 22 - 29 | 29 - 36 | 36 - 43 | 43 - 50 | 50 - 57 | 57 - 64 | 64 - 70a |
| 1571 | 60. | 88. | 110. | 113. | 129. | 132. | 129. | 122. | 51. | 175. |
| 1572 | 54. | 99. | 140. | 146. | | | | | | |
| 1573 | 66. | 116. | 143. | 143. | 146. | b | 153. | 155. | 158. | 134. |
| 1574 | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | |
| 1575 | FOUND DEAD ON DAY 3 POSTWEANING | | | | | | | | | |
| 1576 | 49. | 82. | 114. | 123. | 130. | 141. | 144. | 137. | 129. | 111. |
| 1577 | 53. | 94. | 116. | 120. | | | | | | |
| 1578 | 56. | 104. | 122. | 143. | 139. | 125. | 148. | 107. | 117. | 94. |
| 1579 | 66. | 107. | 124. | 130. | 127. | 134. | 137. | 139. | 128. | b |
| 1580 | 63. | 99. | 114. | 121. | | | | | | |
| 1581 | 71. | 106. | 130. | 128. | | | | | | |
| 1582 | 52. | 90. | 118. | | | | | | | |
| 1583 | 62. | 106. | 120. | 115. | 137. | 136. | b | 159. | b | 97. |
| 1584 | 60. | 94. | 118. | 126. | 129. | 135. | 144. | 132. | 130. | 99. |
| 1585 | 62. | 106. | 131. | | | | | | | |
| 1586 | 61. | 93. | 113. | 114. | 117. | 121. | 235. | 140. | 140. | 103. |
| 1587 | 61. | 106. | 129. | 135. | 133. | 134. | b | 153. | 148. | 113. |
| 1588 | 62. | 103. | 114. | 113. | 118. | 128. | b | 137. | 125. | 98. |
| 1589 | 72. | 127. | 174. | 144. | 136. | 133. | b | b | b | b |
| 1590 | 68. | 109. | 141. | | | | | | | |
| 1591 | 69. | 108. | 175. | 164. | 144. | 142. | 204. | b | 156. | 107. |
| 1592 | 67. | 105. | 120. | | | | | | | |
| 1593 | 76. | 103. | 122. | 138. | 140. | 132. | 135. | 165. | 151. | 114. |
| 1594 | 63. | 103. | 112. | | | | | | | |
| 1595 | 70. | 111. | 120. | | | | | | | |
| 1596 | 59. | 105. | 126. | | | | | | | |
| 1597 | 62. | 89. | 134. | | | | | | | |
| 1598 | 72. | 109. | 130. | 135. | 139. | 147. | 149. | 156. | 146. | 130. |
| 1599 | 63. | 108. | 128. | | | | | | | |
| 1600 | 68. | 104. | 119. | 133. | 125. | 129. | 132. | 145. | 145. | 126. |

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 64-70 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.

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TABLE E31 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | | 0 MG/KG/DAY |
|---|---|---|---|---|---|
| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 |
| 1302 P | 125. | 60. | 76. | 77. | 62. |
| 1304 P | 156. | 71. | 91. | 95. | 66. |
| 1306 P | 149. | 71. | 96. | 91. | 71. |
| 1308 P | 156. | 68. | 95. | 99. | 70. |
| 1310 P | 175. | 78. | 112. | 112. | 73. |
| 1312 P | 167. | 77. | 114. | 105. | 74. |
| 1313 P | 146. | 68. | 92. | 90. | 67. |
| 1316 NP | 141. | 64. | 83. | 63. | 52. |
| 1318 P | a | a | 126. | 119. | 82. |
| 1321 P | 193. | 93. | 112. | 112. | 77. |
| 1325 P | 184. | 79. | 116. | 110. | 84. |
| 1328 P | 154. | 74. | 95. | 89. | 66. |
| 1330 P | 141. | 32. | 82. | 76. | 56. |
| 1331 P | 148. | 75. | 97. | 92. | 59. |
| 1334 P | 136. | 68. | 92. | 94. | 67. |
| 1335 P | 183. | 85. | 111. | 117. | 79. |
| 1336 P | 188. | 87. | 114. | 107. | 72. |
| 1338 P | 159. | 68. | 94. | 100. | 81. |
| 1340 P | 147. | 65. | 88. | 82. | 56. |
| 1341 P | 165. | 77. | 89. | 98. | 64. |
| 1342 P | 159. | 72. | 94. | 91. | 55. |
| 1344 P | 138. | 88. | 106. | 95. | 69. |
| 1345 P | 172. | 73. | 99. | 110. | 83. |
| 1346 P | 160. | 68. | 88. | 87. | 63. |
| 1348 P | 153. | 68. | 90. | 92. | 62. |
| 1350 P | 151. | 68. | 86. | 92. | 66. |
| 1353 P | 154. | 68. | 86. | 79. | 64. |
| 1355 P | 189. | 87. | 100. | 107. | 77. |
| 1359 P | 158. | 68. | 86. | 80. | 70. |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

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TABLE E31 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP II | | | | 1 MG/KG/DAY |
|---|---|---|---|---|---|
| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 |
| 1362 P | 123. | 62. | 77. | 79. | 70. |
| 1363 P | a | 68. | 90. | 90. | 61. |
| 1364 P | a | 67. | 89. | 99. | 52. |
| 1367 P | 139. | 70. | 88. | 87. | 67. |
| 1368 P | 183. | 78. | 105. | 112. | 75. |
| 1371 P | 170. | 95. | 117. | 120. | 89. |
| 1375 P | 135. | 59. | 87. | 84. | 70. |
| 1376 P | 182. | 81. | 110. | 106. | 69. |
| 1378 NP | 149. | 55. | 81. | 79. | 50. |
| 1379 P | 191. | 87. | 108. | 105. | 62. |
| 1381 P | 136. | 58. | 86. | 90. | 67. |
| 1382 P | a | 62. | 84. | 90. | 69. |
| 1383 P | 144. | 67. | 88. | 92. | 66. |
| 1384 P | 148. | 62. | 80. | 88. | 68. |
| 1387 P | 177. | 83. | 117. | 110. | 84. |
| 1389 P | 194. | 86. | 108. | 109. | 80. |
| 1392 P | 191. | 94. | 118. | 108. | b |
| 1393 P | 163. | 71. | 88. | 93. | 67. |
| 1397 P | 157. | 83. | 99. | 102. | 79. |
| 1399 P | 130. | 58. | 83. | 93. | 66. |
| 1401 P | 170. | 73. | 93. | 101. | 58. |
| 1404 P | 175. | 85. | 124. | 106. | 70. |
| 1407 P | 154. | 65. | 91. | 97. | 70. |
| 1409 P | 143. | 71. | 88. | 87. | 79. |
| 1410 P | 158. | 69. | 85. | 90. | 57. |
| 1413 P | 159. | 73. | 89. | 80. | 67. |
| 1415 P | 142. | 67. | 87. | 88. | 68. |
| 1416 P | 179. | 74. | 93. | 100. | 77. |
| 1418 P | 133. | 59. | 80. | 80. | 64. |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.
b. Value was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E31 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP III | | | | 3 MG/KG/DAY |
|---|---|---|---|---|---|
| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 |
| 1421 P | a | 60. | 84. | 86. | 68. |
| 1424 P | 134. | 65. | 82. | 90. | b |
| 1426 P | 178. | 85. | 104. | 115. | 87. |
| 1428 P | a | 75. | 105. | 105. | 72. |
| 1430 P | 173. | 81. | 110. | 126. | 79. |
| 1431 P | 158. | 70. | 101. | 111. | 87. |
| 1433 P | 159. | 68. | 106. | 107. | 75. |
| 1436 P | 184. | 84. | 111. | 93. | 64. |
| 1437 P | 146. | 70. | 88. | 90. | 61. |
| 1439 P | 168. | 79. | 123. | 114. | 77. |
| 1442 P | 193. | 79. | 108. | 112. | 82. |
| 1443 P | 145. | 71. | 96. | 99. | 72. |
| 1446 NP | 136. | 66. | 85. | 73. | 47. |
| 1448 P | 123. | 56. | 74. | 96. | 70. |
| 1450 P | 128. | 58. | 80. | 89. | 66. |
| 1452 P | 160. | 82. | 100. | 102. | b |
| 1455 P | 183. | 90. | 113. | 107. | 75. |
| 1456 P | 158. | 76. | 104. | 109. | 80. |
| 1458 NP | 152. | 61. | 89. | 83. | 54. |
| 1459 P | 160. | 74. | 93. | 99. | 80. |
| 1461 P | 146. | 68. | 92. | 92. | 66. |
| 1463 P | 156. | 73. | 100. | 112. | 64. |
| 1465 P | a | 78. | 102. | 106. | 56. |
| 1468 P | 168. | a | 101. | 100. | 64. |
| 1469 P | 129. | 65. | 87. | 86. | 65. |
| 1472 P | 133. | 61. | 86. | 88. | 69. |
| 1474 P | 135. | 71. | 86. | 98. | 61. |
| 1476 P | 163. | 82. | 104. | 95. | b |
| 1477 P | 147. | 67. | 87. | 94. | 69. |
| 1480 P | 165. | 65. | 87. | 94. | 70. |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.
b. Value was not recorded.

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TABLE E31 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP IV | | | | 10 MG/KG/DAY |
|---|---|---|---|---|---|
| PREGNANCY STATUS DAYS | 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 |
| 1482 P | 173. | 75. | 101. | 101. | 64. |
| 1483 NP | 128. | 54. | 73. | 72. | 55. |
| 1486 P | a | 66. | 95. | 96. | 66. |
| 1488 P | 175. | 76. | 102. | 95. | 62. |
| 1490 P | 181. | b | 109. | 112. | 82. |
| 1491 P | 165. | 84. | 98. | 97. | 68. |
| 1494 P | 176. | 76. | 95. | 83. | 61. |
| 1496 P | 144. | 68. | 84. | 93. | 70. |
| 1497 P | 168. | 72. | 94. | 89. | 61. |
| 1500 P | 157. | 63. | 96. | 96. | 70. |
| 1502 P | 192. | 81. | 107. | 117. | 78. |
| 1505 P | 153. | 67. | 93. | 96. | 64. |
| 1507 P | 136. | 64. | 82. | 82. | b |
| 1508 P | 135. | 73. | 102. | 97. | 63. |
| 1511 NP | 143. | 68. | 88. | 77. | 52. |
| 1513 P | 158. | 70. | 91. | 102. | 75. |
| 1514 P | 150. | 68. | 86. | 91. | 60. |
| 1516 P | 155. | 67. | 97. | 106. | 78. |
| 1517 P | 159. | 55. | 91. | 98. | 65. |
| 1519 P | 125. | 55. | 82. | 93. | 61. |
| 1521 P | 132. | 58. | 71. | 77. | 61. |
| 1523 P | 150. | 68. | 91. | 82. | 56. |
| 1524 P | 164. | 63. | 100. | 95. | 76. |
| 1527 P | 148. | 72. | 98. | 99. | 73. |
| 1528 P | 145. | 60. | 88. | 85. | 61. |
| 1531 P | 145. | 73. | 94. | 91. | 81. |
| 1533 P | 150. | 70. | 104. | 105. | 61. |
| 1534 P | 139. | 57. | 82. | 86. | 63. |
| 1537 P | 175. | 69. | 90. | 100. | 61. |
| 1539 P | 165. | 76. | 99. | 113. | 84. |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.
b. Value was not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E31 (PAGE 5): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | | 30 MG/KG/DAY |
|---|---|---|---|---|---|
| PREGNANCY STATUS | DAYS 0 - 7 | 7 - 10 | 10 - 14 | 14 - 18 | 18 - 21 |
| 1541 P | 119. | 63. | 79. | 87. | 60. |
| 1544 P | 171. | 87. | 112. | 104. | 75. |
| 1545 P | 183. | 79. | 111. | 119. | 76. |
| 1546 P | 149. | 70. | 92. | 91. | 65. |
| 1548 P | a | 57. | 87. | 106. | b |
| 1550 P | 147. | a | 94. | 102. | 66. |
| 1552 P | 143. | 57. | 84. | 79. | 58. |
| 1555 P | 130. | 59. | 78. | 80. | 63. |
| 1557 P | 135. | 62. | 83. | 92. | 71. |
| 1558 P | 168. | 76. | 96. | 103. | 74. |
| 1560 P | 170. | 67. | 102. | 111. | 75. |
| 1564 P | 150. | 60. | 95. | 94. | 75. |
| 1565 P | 121. | 57. | 74. | 81. | 66. |
| 1566 P | 131. | 62. | 83. | 86. | 60. |
| 1568 P | 115. | 58. | 92. | 96. | 69. |
| 1571 P | 134. | 59. | 84. | 96. | b |
| 1573 P | 157. | 75. | 95. | 106. | 76. |
| 1576 P | 156. | 65. | 97. | 104. | 78. |
| 1578 NP | 104. | 37. | 57. | 57. | 43. |
| 1579 P | 128. | 65. | 72. | 93. | 64. |
| 1583 P | c | 62. | 86. | 99. | 74. |
| 1584 P | 168. | 56. | 81. | 86. | 62. |
| 1586 P | 136. | 60. | 82. | 81. | 56. |
| 1587 P | 143. | 67. | 93. | 104. | 78. |
| 1588 P | 136. | 57. | 89. | 92. | 67. |
| 1589 P | 166. | 73. | 106. | 111. | b |
| 1591 P | 158. | 72. | 98. | 109. | 71. |
| 1593 P | 144. | 69. | 97. | 98. | 72. |
| 1598 P | 160. | 76. | 94. | 89. | 78. |
| 1600 P | 162. | 74. | 106. | 106. | 77. |

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Wet feed precluded the calculation of this value.
b. Value was not recorded.
c. Spilled feed precluded the calculation of this value.

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TABLE E32 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP I | | | 0 MG/KG/DAY |
|---|---|---|---|---|
| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 15a |
| 1302 | 118. | 118. | 145. | 185. |
| 1304 | 125. | 148. | 180. | 199. |
| 1306 | 149. | 153. | 176. | 239. |
| 1308 | 185. | 167. | 193. | 255. |
| 1310 | b | 170. | 200. | 234. |
| 1312 | 84. | 101. | 119. | 158. |
| 1313 | 120. | 134. | 138. | 186. |
| 1316 | NOT PREGNANT | | | |
| 1318 | 154. | 184. | 170. | 270. |
| 1321 | 129. | 180. | 120. | 250. |
| 1325 | 104. | 157. | 170. | 272. |
| 1328 | 115. | 141. | 180. | 277. |
| 1330 | 90. | 117. | 163. | 232. |
| 1331 | 108. | 127. | 140. | 198. |
| 1334 | 83. | 107. | 126. | b |
| 1335 | 113. | 138. | 151. | 225. |
| 1336 | 161. | 168. | 192. | 200. |
| 1338 | 195. | 190. | 150. | 254. |
| 1340 | 125. | 132. | 165. | 306. |
| 1341 | 110. | 132. | 117. | 211. |
| 1342 | 113. | 150. | 133. | 214. |
| 1344 | 124. | 155. | 174. | 244. |
| 1345 | 131. | 159. | 184. | 271. |
| 1346 | 109. | 128. | 144. | 227. |
| 1348 | 103. | 156. | 205. | 244. |
| 1350 | 103. | 151. | 183. | 245. |
| 1353 | 115. | 98. | 159. | 273. |
| 1355 | 113. | 166. | 180. | 246. |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | |
| 1359 | 96. | 114. | 177. | 256. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E32 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP II | | | 1 MG/KG/DAY |
|---|---|---|---|---|
| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 15a |
| 1362 | 90. | 97. | 118. | 191. |
| 1363 | 122. | 148. | 177. | 213. |
| 1364 | 127. | 145. | 167. | 197. |
| 1367 | 137. | 152. | 171. | 286. |
| 1368 | 174. | 194. | 210. | 242. |
| 1371 | 142. | 171. | 161. | 278. |
| 1375 | 116. | 139. | 155. | 200. |
| 1376 | 122. | 138. | 164. | 224. |
| 1378 | NOT PREGNANT | | | |
| 1379 | 99. | 134. | 168. | 252. |
| 1381 | 125. | 141. | 157. | 230. |
| 1382 | 151. | 166. | 215. | 303. |
| 1383 | 112. | 148. | 171. | 259. |
| 1384 | 160. | 123. | 164. | 169. |
| 1387 | 125. | 146. | 180. | 213. |
| 1389 | 161. | 159. | 159. | 230. |
| 1392 | 94. | 129. | 162. | 246. |
| 1393 | 97. | 142. | 170. | 232. |
| 1397 | 109. | 163. | 147. | 263. |
| 1399 | 102. | 121. | 145. | 169. |
| 1401 | 139. | 146. | 167. | 155. |
| 1404 | 129. | 113. | 159. | 257. |
| 1407 | 161. | 163. | 196. | 203. |
| 1409 | 113. | 111. | 145. | 256. |
| 1410 | 121. | 177. | 197. | 242. |
| 1413 | 93. | 154. | 190. | 297. |
| 1415 | 91. | 141. | 130. | 222. |
| 1416 | 102. | 156. | 154. | 210. |
| 1418 | 118. | 160. | 156. | 198. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E32 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP III | | | 3 MG/KG/DAY |
|---|---|---|---|---|
| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 15a |
| 1421 | 122. | 152. | 186. | 212. |
| 1424 | 109. | 143. | 162. | 189. |
| 1426 | 93. | 132. | 157. | 230. |
| 1428 | 113. | 154. | 181. | 221. |
| 1430 | 108. | 127. | 160. | 238. |
| 1431 | 133. | 154. | 171. | 268. |
| 1433 | 133. | 163. | 169. | 230. |
| 1436 | 109. | 117. | 143. | 207. |
| 1437 | 128. | 152. | 152. | 230. |
| 1439 | 109. | 148. | 138. | 219. |
| 1442 | 118. | 121. | 152. | 205. |
| 1443 | 123. | 155. | 183. | 262. |
| 1446 | NOT PREGNANT | | | |
| 1448 | 107. | 150. | 177. | 196. |
| 1450 | 99. | 124. | 141. | 206. |
| 1452 | 80. | 114. | 157. | 171. |
| 1455 | 110. | 139. | 167. | 237. |
| 1456 | 107. | 121. | 133. | 198. |
| 1458 | NOT PREGNANT | | | |
| 1459 | 123. | 177. | 152. | 239. |
| 1461 | 103. | 126. | 153. | 239. |
| 1463 | 110. | 135. | 175. | 209. |
| 1465 | 118. | 161. | 179. | 210. |
| 1468 | 136. | 114. | b | 243. |
| 1469 | b | 130. | 176. | 256. |
| 1472 | 126. | 136. | 142. | 233. |
| 1474 | 99. | 128. | 206. | 246. |
| 1476 | 82. | 140. | 196. | 276. |
| 1477 | 149. | 110. | 180. | 307. |
| 1480 | 147. | 159. | 187. | 241. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E32 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP IV | | | 10 MG/KG/DAY |
|---|---|---|---|---|
| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 15a |
| 1482 | 100. | 121. | 160. | 185. |
| 1483 | NOT PREGNANT | | | |
| 1486 | 134. | 158. | 178. | 253. |
| 1488 | 102. | 158. | 178. | 205. |
| 1490 | b | 152. | 176. | 198. |
| 1491 | 157. | 166. | 188. | 273. |
| 1494 | 127. | 133. | 154. | 309. |
| 1496 | 99. | 90. | 166. | 225. |
| 1497 | 123. | 152. | 168. | 238. |
| 1500 | 117. | 133. | 178. | 252. |
| 1502 | b | 149. | 156. | 228. |
| 1505 | 118. | 130. | 113. | 249. |
| 1507 | 92. | 169. | 140. | 293. |
| 1508 | 96. | 122. | 135. | 143. |
| 1511 | NOT PREGNANT | | | |
| 1513 | 114. | 153. | 168. | 168. |
| 1514 | 117. | 155. | 190. | 151. |
| 1516 | 152. | 138. | 167. | 231. |
| 1517 | 87. | 120. | 172. | 248. |
| 1519 | 115. | 156. | 182. | 278. |
| 1521 | 103. | 140. | 159. | 217. |
| 1523 | 126. | 145. | 152. | 257. |
| 1524 | 79. | 64. | 79. | 112. |
| 1527 | 123. | 154. | 141. | 153. |
| 1528 | 110. | 86. | 153. | 237. |
| 1531 | 145. | 155. | 133. | 274. |
| 1533 | 116. | 158. | 155. | 261. |
| 1534 | 82. | 130. | 137. | 193. |
| 1537 | 118. | 157. | 178. | 189. |
| 1539 | 154. | 178. | 138. | 289. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E32 (PAGE 5): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| RAT # | DOSAGE GROUP V | | | 30 MG/KG/DAY |
|---|---|---|---|---|
| DAY | 1 - 5 | 5 - 8 | 8 - 11 | 11 - 15a |
| 1541 | 122. | 130. | 152. | 216. |
| 1544 | 130. | 147. | 171. | 289. |
| 1545 | 140. | 179. | 186. | 257. |
| 1546 | 128. | 122. | 112. | 205. |
| 1548 | 75. | 113. | 152. | 246. |
| 1550 | 141. | 154. | 151. | 203. |
| 1552 | 120. | 137. | 158. | 181. |
| 1555 | 111. | 119. | 146. | 179. |
| 1557 | 112. | 131. | 162. | 207. |
| 1558 | 131. | 181. | 184. | 218. |
| 1560 | 135. | 151. | 155. | 241. |
| 1564 | 123. | 118. | 152. | 263. |
| 1565 | 110. | 123. | 116. | 189. |
| 1566 | 101. | 111. | 115. | 224. |
| 1568 | 121. | 119. | 162. | 216. |
| 1571 | 84. | 123. | 168. | 174. |
| 1573 | 120. | 148. | 177. | 223. |
| 1576 | 92. | 116. | 145. | 197. |
| 1578 | NOT PREGNANT | | | |
| 1579 | 108. | 142. | 155. | 194. |
| 1583 | 127. | 144. | 169. | 167. |
| 1584 | 68. | 87. | 91. | 134. |
| 1586 | 123. | 129. | 164. | 173. |
| 1587 | 113. | 126. | 128. | 173. |
| 1588 | 118. | 137. | 132. | 273. |
| 1589 | 91. | 137. | 143. | 237. |
| 1591 | 140. | 145. | 182. | 192. |
| 1593 | 129. | 120. | 131. | 129. |
| 1598 | 143. | 128. | 153. | 225. |
| 1600 | 133. | 160. | 170. | 234. |

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because it is presumed that the pups begin to consume maternal feed after day 15 of lactation, maternal feed consumption values were not tabulated on days 15 to 22 of lactation.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E33 (PAGE 1): SEXUAL MATURATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP - MG/KG/DAY | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| I | | II | | III | | IV | | V | |
| 0 | | 1 | | 3 | | 10 | | 30 | |
| RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) |
| 1301 | 37 | 1361 | 35 | 1421 | 37 | 1481 | 35 | 1541 | 42 |
| 1302 | 37 | 1362 | 37 | 1422 | 36 | 1482 | 34 | 1542 | 37 |
| 1303 | 36 | 1363 | 37 | 1423 | 33 | 1483 | 41 | 1543 | 40 |
| 1304 | 38 | 1364 | 37 | 1424 | 34 | 1484 | a | 1544 | 36 |
| 1305 | 36 | 1365 | a | 1425 | 35 | 1485 | 36 | 1545 | 36 |
| 1306 | 35 | 1366 | 35 | 1426 | 35 | 1486 | 43 | 1546 | 35 |
| 1307 | 36 | 1367 | 35 | 1427 | 33 | 1487 | 32 | 1547 | 38 |
| 1308 | 36 | 1368 | 35 | 1428 | 34 | 1488 | 35 | 1548 | 35 |
| 1309 | 35 | 1369 | 34 | 1429 | 35 | 1489 | b | 1549 | c |
| 1310 | 34 | 1370 | 37 | 1430 | 36 | 1490 | 37 | 1550 | 37 |
| 1311 | 36 | 1371 | 35 | 1431 | 38 | 1491 | 33 | 1551 | 39 |
| 1312 | 36 | 1372 | 36 | 1432 | c | 1492 | 34 | 1552 | 36 |
| 1313 | 35 | 1373 | 36 | 1433 | 35 | 1493 | 35 | 1553 | 43 |
| 1314 | 31 | 1374 | 38 | 1434 | 36 | 1494 | 33 | 1554 | 38 |
| 1315 | 29 | 1375 | 38 | 1435 | 33 | 1495 | 35 | 1555 | 40 |
| 1316 | 31 | 1376 | 38 | 1436 | 33 | 1496 | 32 | 1556 | 35 |
| 1317 | 34 | 1377 | 38 | 1437 | 33 | 1497 | 34 | 1557 | 36 |
| 1318 | 34 | 1378 | 36 | 1438 | 33 | 1498 | 36 | 1558 | 36 |
| 19779 | 36 | 1379 | 34 | 1439 | 35 | 1499 | 35 | 1559 | c |
| 19780 | 36 | 1380 | 37 | 1440 | 33 | 1500 | 35 | 1560 | 34 |
| 1321 | 31 | 1381 | 37 | 1441 | 37 | 1501 | 36 | 1561 | 36 |
| 1322 | 31 | 1382 | 38 | 1442 | 36 | 1502 | 36 | 1562 | a |
| 1323 | 31 | 1383 | 39 | 1443 | 40 | 1503 | 36 | 1563 | a |
| 1324 | 35 | 1384 | 36 | 1444 | 35 | 1504 | 35 | 1564 | 39 |
| 1325 | 36 | 1385 | 33 | 1445 | 34 | 1505 | 36 | 1565 | 37 |
| 1326 | 35 | 1386 | 34 | 1446 | 35 | 1506 | 34 | 1566 | 35 |
| 1327 | 34 | 1387 | 36 | 1447 | 35 | 1507 | 37 | 1567 | 32 |
| 1328 | 34 | 1388 | 32 | 1448 | 33 | 1508 | 34 | 1568 | 31 |
| 1329 | 36 | 1389 | 31 | 1449 | 32 | 1509 | 33 | 1569 | 34 |
| 1330 | 36 | 1390 | 36 | 1450 | 34 | 1510 | 34 | 1570 | 36 |

DAY = DAY POSTPARTUM
a. Rat was found dead before the start of sexual maturation evaluation.
b. Sexual maturation testing was discontinued before rat became sexually mature.
c. Rat was found dead.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E33 (PAGE 2): SEXUAL MATURATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP - MG/KG/DAY | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| I | | II | | III | | IV | | V | |
| 0 | | 1 | | 3 | | 10 | | 30 | |
| RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) | RAT # | VAGINAL PATENCY (DAY) |
| 1331 | 38 | 1391 | 36 | 1451 | 31 | 1511 | 34 | 1571 | 37 |
| 1332 | 36 | 1392 | 35 | 1452 | 31 | 1512 | 35 | 1572 | 36 |
| 1333 | 36 | 1393 | 39 | 1453 | 29 | 1513 | 36 | 1573 | 36 |
| 1334 | 40 | 1394 | 35 | 1454 | 29 | 1514 | 31 | 1574 | a |
| 1335 | 35 | 1395 | 35 | 1455 | 29 | 1515 | 34 | 1575 | a |
| 1336 | 34 | 1396 | 32 | 1456 | 35 | 1516 | 37 | 1576 | 41 |
| 1337 | 35 | 1397 | 32 | 1457 | 36 | 1517 | 34 | 1577 | 40 |
| 1338 | 35 | 1398 | 38 | 1458 | 35 | 1518 | 35 | 1578 | 39 |
| 1339 | 36 | 1399 | 34 | 1459 | 33 | 1519 | 36 | 1579 | 34 |
| 1340 | 35 | 1400 | 35 | 1460 | 31 | 1520 | 32 | 1580 | 36 |
| 1341 | 34 | 1401 | 38 | 1461 | 38 | 1521 | 31 | 1581 | 34 |
| 1342 | 36 | 1402 | 33 | 1462 | 31 | 1522 | 35 | 1582 | 39 |
| 1343 | 33 | 1403 | 32 | 1463 | 31 | 1523 | 36 | 1583 | 38 |
| 1344 | 34 | 1404 | 35 | 1464 | 31 | 1524 | 35 | 1584 | 38 |
| 1345 | 38 | 1405 | 43 | 1465 | 41 | 1525 | 37 | 1585 | 38 |
| 1346 | 34 | 1406 | 37 | 1466 | 39 | 1526 | 32 | 1586 | 38 |
| 1347 | 36 | 1407 | 30 | 1467 | 34 | 1527 | 33 | 1587 | 36 |
| 1348 | 36 | 1408 | 38 | 1468 | b | 1528 | 35 | 1588 | 37 |
| 1349 | 37 | 1409 | b | 1469 | 34 | 1529 | 39 | 1589 | 31 |
| 1350 | 31 | 1410 | 34 | 1470 | 34 | 1530 | 34 | 1590 | 37 |
| 1351 | 34 | 1411 | 33 | 1471 | 34 | 1531 | 34 | 1591 | 35 |
| 1352 | 33 | 1412 | 34 | 1472 | 38 | 1532 | 34 | 1592 | 35 |
| 1353 | 33 | 1413 | 36 | 1473 | 34 | 1533 | 32 | 1593 | 36 |
| 1354 | 34 | 1414 | 37 | 1474 | 32 | 1534 | 34 | 1594 | 38 |
| 1355 | 35 | 1415 | 37 | 1475 | 35 | 1535 | 33 | 1595 | 34 |
| 1356 | 32 | 1416 | 35 | 1476 | 34 | 1536 | 34 | 1596 | 36 |
| 1357 | 36 | 1417 | 34 | 1477 | 30 | 1537 | 35 | 1597 | 38 |
| 1358 | 37 | 1418 | 35 | 1478 | 32 | 1538 | 37 | 1598 | 35 |
| 1359 | 37 | 1419 | 35 | 1479 | 33 | 1539 | 34 | 1599 | 37 |
| 1360 | 36 | 1420 | 34 | 1480 | 35 | 1540 | 35 | 1600 | 35 |

DAY = DAY POSTPARTUM
a. Rat was found dead before the start of sexual maturation evaluation.
b. Sexual maturation testing was discontinued before rat became sexually mature.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E34 (PAGE 1): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| 1302 | 6 | 4 | M | C | P | MET |
| 1304 | 5 | 2 | M | C | P | E |
| 1306 | 6 | 4 | M | C | P | D |
| 1308 | 5 | 2 | M | C | P | D |
| 1310 | 5 | 3 | M | C | P | E |
| 1312 | 4 | 1 | M | C | P | MET |
| 1313 | 3 | 2 | M | C | P | D |
| 1316 | 5 | 1 | M | C | NP | D |
| 1318 | 3 | 2 | M | C | P | D |
| 1321 | 4 | 3 | M | C | P | E |
| 1325 | 6 | 1 | M | C | P | D |
| 1328 | 6 | 4 | M | C | P | E |
| 1330 | 5 | 3 | M | C | P | D |
| 1331 | 3 | 4 | M | C | P | D |
| 1334 | 5 | 2 | M | C | P | D |
| 1335 | 5 | 3 | M | C | P | D |
| 1336 | 5 | 3 | M | C | P | MET |
| 1338 | 5 | 2 | M | C | P | D |
| 1340 | 3a | 5 | M | C | P | D |
| 1341 | 5 | 2 | M | C | P | E |
| 1342 | 4 | 2 | M | C | P | E |
| 1344 | 5 | 4 | M | C | P | D |
| 1345 | 4 | 2 | M | C | P | D |
| 1346 | 5 | 1 | M | C | P | D |
| 1348 | 5 | 1 | M | C | P | MET |
| 1350 | 5 | 2 | M | C | P | D |
| 1353 | 4 | 5 | M | C | P | PRO |
| 1355 | 5 | 3 | M | C | P | D |
| 1358 | 5 | 14 | DID NOT MATE | - | NP | PRO |
| 1359 | 4 | 4 | M | C | P | D |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS
a. Six or more consecutive days of diestrus were observed.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E34 (PAGE 2): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| 1362 | 6 | 4 | M | C | P | E |
| 1363 | 5 | 3 | M | C | P | E |
| 1364 | 5 | 3 | M | C | P | MET |
| 1367 | 6 | 4 | M | C | P | E |
| 1368 | 5 | 3 | M | C | P | D |
| 1371 | 5 | 4 | M | C | P | D |
| 1373 | FOUND DEAD ON DAY 51 POSTWEANING | | | | | |
| 1375 | 6 | 2 | M | C | P | D |
| 1376 | 5 | 4 | M | C | P | D |
| 1378 | 6 | 3 | M | C | NP | E |
| 1379 | 6 | 4 | M | C | P | MET |
| 1381 | 6 | 4 | M | C | P | D |
| 1382 | 5 | 3 | M | C | P | D |
| 1383 | 4 | 2 | M | C | P | D |
| 1384 | 5 | 2 | M | C | P | E |
| 1387 | 5 | 3 | M | C | P | E |
| 1389 | 3 | 2 | M | C | P | D |
| 1392 | 6 | 4 | M | C | P | D |
| 1393 | 5 | 2 | M | C | P | E |
| 1397 | 6 | 2 | M | C | P | MET |
| 1399 | 5 | 3 | M | C | P | D |
| 1401 | 5 | 2 | M | C | P | E |
| 1404 | 5 | 4 | M | C | P | D |
| 1407 | 5 | 3 | M | C | P | D |
| 1409 | 3 | 6 | M | C | P | D |
| 1410 | 3 | 3 | M | C | P | E |
| 1413 | 6 | 4 | M | C | P | E |
| 1415 | 4 | 1 | M | C | P | D |
| 1416 | 5 | 1 | M | C | P | PRO |
| 1418 | 5 | 2 | M | C | P | D |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E34 (PAGE 3): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP III 3 MG/KG/DAY

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| 1421 | 6 | 1 | M | C | P | D |
| 1424 | 4 | 2 | M | C | P | D |
| 1426 | 6 | 1 | M | C | P | D |
| 1428 | 5 | 3 | M | C | P | MET |
| 1430 | 5 | 2 | M | C | P | E |
| 1431 | 4 | 1 | M | C | P | D |
| 1433 | 6 | 3 | M | C | P | PRO |
| 1436 | 6 | 4 | M | C | P | D |
| 1437 | 6 | 4 | M | C | P | D |
| 1439 | 5 | 3 | M | C | P | MET |
| 1442 | 5 | 1 | M | C | P | D |
| 1443 | 4 | 2 | M | C | P | PRO |
| 1446 | 4 | 4 | M | C | NP | D |
| 1448 | 4 | 2 | M | C | P | D |
| 1450 | 5 | 3 | M | C | P | D |
| 1452 | 4 | 2 | M | C | P | D |
| 1455 | 6 | 4 | M | C | P | D |
| 1456 | 5 | 1 | M | C | P | E |
| 1458 | 5 | 1 | M | C | NP | D |
| 1459 | 4 | 2 | M | C | P | D |
| 1461 | 5 | 3 | M | C | P | D |
| 1463 | 6 | 2 | M | C | P | E |
| 1465 | 5 | 2 | M | C | P | D |
| 1468 | 6 | 4 | M | C | P | PRO |
| 1469 | 4 | 1 | M | C | P | E |
| 1472 | 5 | 4 | M | C | P | D |
| 1474 | 5 | 2 | M | C | P | D |
| 1476 | 6 | 4 | M | C | P | E |
| 1477 | 6 | 4 | M | C | P | D |
| 1480 | 4 | 1 | M | C | P | D |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E34 (PAGE 4): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| 1482 | 6 | 1 | M | C | P | D |
| 1483 | 5 | 1 | M | C | NP | E |
| 1486 | 5 | 1 | M | C | P | E |
| 1488 | 6 | 1 | M | C | P | D |
| 1490 | 7 | 1 | M | C | P | D |
| 1491 | 5 | 2 | M | C | P | E |
| 1494 | 4 | 4 | M | C | P | D |
| 1496 | 5 | 2 | M | C | P | PRO |
| 1497 | 5 | 4 | M | C | P | E |
| 1500 | 5 | 3 | M | C | P | D |
| 1502 | 2a | 1 | M | C | P | PRO |
| 1505 | 5 | 3 | M | C | P | D |
| 1507 | 6 | 4 | M | C | P | D |
| 1508 | 6 | 4 | M | C | P | D |
| 1511 | 3 | 7 | M | C | NP | D |
| 1513 | 3 | 2 | M | C | P | D |
| 1514 | 5 | 2 | M | C | P | D |
| 1516 | 6 | 4 | M | C | P | D |
| 1517 | 6 | 1 | M | C | P | E |
| 1519 | 5 | 1 | M | C | P | D |
| 1521 | 6 | 4 | M | C | P | D |
| 1523 | 6 | 4 | M | C | P | MET |
| 1524 | 6 | 1 | M | C | P | E |
| 1527 | 5 | 4 | M | C | P | D |
| 1528 | 5 | 3 | M | C | P | D |
| 1531 | 4 | 4 | M | C | P | D |
| 1533 | 5 | 3 | M | C | P | D |
| 1534 | 5 | 1 | M | C | P | D |
| 1537 | 5 | 3 | M | C | P | D |
| 1539 | 4 | 5 | M | C | P | D |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS
a. Six or more consecutive days of diestrus were observed.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E34 (PAGE 5): MATING AND FERTILITY, ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP V 30 MG/KG/DAY

| RAT # | ESTROUS STAGES/ 21 DAYS | DAYS IN COHABITATION | MATING STATUS | MATING DATE | PREGNANCY STATUS | ESTROUS STAGE AT SACRIFICE |
|---|---|---|---|---|---|---|
| 1541 | 6 | 2 | M | C | P | D |
| 1544 | 6 | 5 | M | C | P | MET |
| 1545 | 5 | 3 | M | C | P | D |
| 1546 | 6 | 4 | M | C | P | D |
| 1548 | 5 | 3 | M | C | P | D |
| 1550 | 6 | 1 | M | C | P | D |
| 1552 | 6 | 3 | M | C | P | E |
| 1555 | 6 | 4 | M | C | P | D |
| 1557 | 5 | 2 | M | C | P | D |
| 1558 | 6 | 1 | M | C | P | D |
| 1560 | 6 | 1 | M | C | P | D |
| 1564 | 5 | 3 | M | C | P | PRO |
| 1565 | 5 | 2 | M | C | P | D |
| 1566 | 5 | 4 | M | C | P | D |
| 1568 | 5 | 3 | M | C | P | D |
| 1571 | 5 | 3 | M | C | P | D |
| 1573 | 5 | 2 | M | C | P | E |
| 1576 | 5 | 1 | M | C | P | D |
| 1578 | 6 | 3 | M | C | NP | E |
| 1579 | 6 | 2 | M | C | P | D |
| 1583 | 5 | 1 | M | C | P | D |
| 1584 | 7 | 1 | M | C | P | D |
| 1586 | 6 | 4 | M | C | P | D |
| 1587 | 5 | 1 | M | C | P | PRO |
| 1588 | 5 | 3 | M | C | P | D |
| 1589 | 4 | 3 | M | C | P | D |
| 1591 | 4 | 2 | M | C | P | D |
| 1593 | 5 | 1 | M | C | P | E |
| 1598 | 5 | 4 | M | C | P | D |
| 1600 | 6 | 4 | M | C | P | D |

M = MATED C = CONFIRMED NC = NOT CONFIRMED P = PREGNANT NP = NOT PREGNANT
PRO = PROESTRUS E = ESTRUS MET = METESTRUS D = DIESTRUS

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| I | | | | | |
| 0 | 1301 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1302 | DL 22 | P | 130 | ALL TISSUES APPEARED NORMAL. |
| | 1303 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1304 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1305 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1306 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1307 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1308 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1309 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1310 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1311 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1312 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1313 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1314 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1315 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1316 | DG 25 | NP | 107 | ALL TISSUES APPEARED NORMAL. |
| | 1317 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1318 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 19779 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 19780 | DP 28 | - | 27 | SPLEEN: SMALL (0.099 G).<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | 1321 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1322 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1323 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1324 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1325 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1326 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1327 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1328 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1329 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1330 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| I | | | | | |
| 0 | 1331 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1332 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1333 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1334 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1335 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1336 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1337 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1338 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1339 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1340 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1341 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1342 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1343 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1344 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1345 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1346 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1347 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1348 | DL 22 | P | 122 | ALL TISSUES APPEARED NORMAL. |
| | 1349 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1350 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1351 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1352 | DP 27 | - | 26 | ALL TISSUES APPEARED NORMAL. |
| | 1353 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1354 | DP 27 | - | 26 | ALL TISSUES APPEARED NORMAL. |
| | 1355 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1356 | DP 27 | - | 26 | ALL TISSUES APPEARED NORMAL. |
| | 1357 | DP 24 | - | 23 | ALL TISSUES APPEARED NORMAL. |
| | 1358 | DP 114 | NP | 113 | ALL TISSUES APPEARED NORMAL. |
| | 1359 | DL 22 | P | 116 | ALL TISSUES APPEARED NORMAL. |
| | 1360 | DP 18 | - | 17 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| II<br>1 | 1361 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1362 | DL 22 | P | 130 | NECROPSY OBSERVATIONS WERE NOT RECORDED. |
| | 1363 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1364 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1365 | DP 4 | - | 3 | FOUND DEAD ON DAY 4 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1366 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1367 | DL 22 | P | 130 | ALL TISSUES APPEARED NORMAL. |
| | 1368 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1369 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1370 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1371 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1372 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1373 | DP 51 | - | 50 | FOUND DEAD ON DAY 51 POSTWEANING. STOMACH: DISTENDED. INTESTINES: DISTENDED. LUNGS: DORSAL SURFACE, RIGHT APICAL LOBE, DEPRESSED WHITE AREA (0.3 CM IN DIAMETER). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1374 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1375 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1376 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1377 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1378 | DG 25 | NP | 110 | ALL TISSUES APPEARED NORMAL. |
| | 1379 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1380 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1381 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1382 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1383 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1384 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP<br>DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| II | | | | | |
| 1 | 1385 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1386 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1387 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1388 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1389 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1390 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1391 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1392 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1393 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1394 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1395 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1396 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1397 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1398 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1399 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1400 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1401 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1402 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1403 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1404 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1405 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1406 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1407 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1408 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1409 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1410 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1411 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1412 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1413 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1414 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1415 | DL 22 | P | 122 | LIVER: LEFT LATERAL LOBE, FIRM MASS (2.0 CM X 1.2 CM X 0.4 CM), CUT SURFACE REVEALED YELLOW AND DARK RED AREAS; CAUDATE LOBE ADHERED TO LEFT LATERAL LOBE. ALL OTHER TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| II | | | | | |
| 1 | 1416 | DL 22 | P | 122 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1417 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1418 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1419 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1420 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| III | | | | | |
| 3 | 1421 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1422 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1423 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1424 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1425 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1426 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1427 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1428 | DL 22 | P | 127 | KIDNEYS: BILATERAL, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL. |
| | 1429 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1430 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1431 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1432 | DP 7 | - | 6 | FOUND DEAD ON DAY 7 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1433 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1434 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1435 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1436 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1437 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1438 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1439 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1440 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1441 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1442 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1443 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1444 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1445 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1446 | DG 25 | NP | 110 | ALL TISSUES APPEARED NORMAL. |
| | 1447 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1448 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1449 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 7): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| III | | | | | |
| 3 | 1450 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1451 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1452 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1453 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1454 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1455 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1456 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1457 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1458 | DG 25 | NP | 106 | ALL TISSUES APPEARED NORMAL. |
| | 1459 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1460 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1461 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1462 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1463 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1464 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1465 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1466 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1467 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1468 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1469 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1470 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1471 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1472 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1473 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1474 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1475 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1476 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1477 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1478 | DP 27 | - | 26 | ALL TISSUES APPEARED NORMAL. |
| | 1479 | DP 24 | - | 23 | ALL TISSUES APPEARED NORMAL. |
| | 1480 | DL 22 | P | 119 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 8): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| IV | | | | | |
| 10 | 1481 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1482 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1483 | DG 25 | NP | 108 | ALL TISSUES APPEARED NORMAL. |
| | 1484 | DP 3 | - | 2 | FOUND DEAD ON DAY 3 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1485 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1486 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1487 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1488 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1489 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1490 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1491 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1492 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1493 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1494 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1495 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1496 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1497 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1498 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1499 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1500 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1501 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1502 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1503 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1504 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1505 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1506 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1507 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1508 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 9): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| IV | | | | | |
| 10 | 1509 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1510 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1511 | DG 25 | NP | 112 | ALL TISSUES APPEARED NORMAL. |
| | 1512 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1513 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1514 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1515 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1516 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1517 | DL 22 | P | 122 | ALL TISSUES APPEARED NORMAL. |
| | 1518 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1519 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1520 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1521 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1522 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1523 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1524 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1525 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1526 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1527 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1528 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1529 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1530 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1531 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1532 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1533 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1534 | DL 22 | P | 122 | ALL TISSUES APPEARED NORMAL. |
| | 1535 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1536 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1537 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1538 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1539 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1540 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

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TABLE E35 (PAGE 10): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| V 30 | 1541 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1542 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1543 | DP 32 | - | 31 | ALL TISSUES APPEARED NORMAL. |
| | 1544 | DL 22 | P | 129 | ALL TISSUES APPEARED NORMAL. |
| | 1545 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1546 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1547 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1548 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1549 | DP 8 | - | 7 | FOUND DEAD ON DAY 8 POSTWEANING. ALL TISSUES APPEARED NORMAL. |
| | 1550 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1551 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1552 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1553 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1554 | DP 31 | - | 30 | ALL TISSUES APPEARED NORMAL. |
| | 1555 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| | 1556 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1557 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1558 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1559 | DP 6 | - | 5 | FOUND DEAD ON DAY 6 POSTWEANING. ALL TISSUES APPEARED NORMAL. |
| | 1560 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1561 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1562 | DP 2 | - | 0 | FOUND DEAD ON DAY 2 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1563 | DP 2 | - | 0 | FOUND DEAD ON DAY 2 POSTWEANING. ALL TISSUES APPEARED NORMAL. |
| | 1564 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1565 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

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TABLE E35 (PAGE 11): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| V | | | | | |
| 30 | 1566 | DL 22 | P | 128 | ALL TISSUES APPEARED NORMAL. |
| CONT. | 1567 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1568 | DL 22 | P | 127 | ALL TISSUES APPEARED NORMAL. |
| | 1569 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1570 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1571 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1572 | DP 30 | - | 29 | ALL TISSUES APPEARED NORMAL. |
| | 1573 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1574 | DP 3 | - | 3 | FOUND DEAD ON DAY 3 POSTWEANING (DEATH OCCURRED 67 MINUTES AFTER DOSAGE ADMINISTRATION). ALL TISSUES APPEARED NORMAL. |
| | 1575 | DP 3 | - | 2 | FOUND DEAD ON DAY 3 POSTWEANING (DEATH OCCURRED OVERNIGHT). ALL TISSUES APPEARED NORMAL. |
| | 1576 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1577 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1578 | DG 25 | NP | 108 | ALL TISSUES APPEARED NORMAL. |
| | 1579 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1580 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1581 | DP 29 | - | 28 | ALL TISSUES APPEARED NORMAL. |
| | 1582 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1583 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1584 | DL 22 | P | 122 | ALL TISSUES APPEARED NORMAL. |
| | 1585 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1586 | DL 22 | P | 126 | ALL TISSUES APPEARED NORMAL. |
| | 1587 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1588 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1589 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |
| | 1590 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1591 | DL 22 | P | 124 | ALL TISSUES APPEARED NORMAL. |
| | 1592 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E35 (PAGE 12): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

| DOSAGE GROUP DOSAGE (MG/KG/DAY) | RAT NUMBER | DAY OF NECROPSY | PREGNANCY STATUS | DOSAGES ADMINISTERED | OBSERVATIONS a |
|---|---|---|---|---|---|
| V 30 CONT. | 1593 | DL 22 | P | 123 | KIDNEYS: RIGHT, PELVIS, MODERATE DILATION. URINARY BLADDER: WALLS THICKENED. URETER: BILATERAL, MODERATE DILATION; ONE CALCULI LOCATED AT THE CAUDAL END (1.0 CM X 0.5 CM). ALL OTHER TISSUES APPEARED NORMAL. |
| | 1594 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1595 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1596 | DP 28 | - | 27 | ALL TISSUES APPEARED NORMAL. |
| | 1597 | DP 27 | - | 26 | ALL TISSUES APPEARED NORMAL. |
| | 1598 | DL 22 | P | 125 | ALL TISSUES APPEARED NORMAL. |
| | 1599 | DP 26 | - | 25 | ALL TISSUES APPEARED NORMAL. |
| | 1600 | DL 22 | P | 123 | ALL TISSUES APPEARED NORMAL. |

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

a. Refer to the individual clinical observations table (Table E26) for external observations confirmed at necropsy.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E36 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY | | BRAIN | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a |
| 1302 | 284. | 0.022 | 7.75 | 2.10 | 0.74 | 14.52 | 5.11 | 1.30 | 0.46 | 1.38 | 0.48 | 0.027 | 9.51 |
| 1304 | 320. | 0.021 | 6.56 | 2.10 | 0.66 | 17.50 | 5.47 | 1.38 | 0.43 | 1.40 | 0.44 | 0.044 | 13.75 |
| 1306 | 335. | 0.017 | 5.07 | 2.05 | 0.61 | 17.30 | 5.16 | 1.45 | 0.43 | 1.55 | 0.46 | 0.050 | 14.92 |
| 1308 | 357. | 0.018 | 5.04 | 2.01 | 0.56 | 18.06 | 5.06 | 1.29 | 0.36 | 1.32 | 0.37 | 0.041 | 11.48 |
| 1310 | 331. | 0.014 | 4.23 | 1.99 | 0.60 | 18.04 | 5.45 | 1.30 | 0.39 | 1.33 | 0.40 | 0.040 | 12.08 |
| 1312 | 336. | 0.022 | 6.55 | 2.15 | 0.64 | 14.95 | 4.45 | 1.24 | 0.37 | 1.36 | 0.40 | 0.036 | 10.71 |
| 1313 | 298. | 0.020 | 6.71 | 2.14 | 0.72 | 15.73 | 5.28 | 1.26 | 0.42 | 1.28 | 0.43 | 0.036 | 12.08 |
| 1316 | NOT PREGNANT | | | | | | | | | | | | |
| 1318 | 369. | 0.017 | 4.61 | 2.06 | 0.56 | 17.38 | 4.71 | 1.53 | 0.41 | 1.43 | 0.39 | 0.039 | 10.57 |
| 1321 | 329. | 0.014 | 4.26 | 2.05 | 0.62 | 18.67 | 5.67 | 1.36 | 0.41 | 1.46 | 0.44 | 0.047 | 14.28 |
| 1325 | 323. | 0.009 | 2.79 | 2.00 | 0.62 | 17.15 | 5.31 | 1.35 | 0.42 | 1.39 | 0.43 | 0.044 | 13.62 |
| 1328 | 328. | 0.015 | 4.57 | 2.09 | 0.64 | 17.40 | 5.30 | 1.41 | 0.43 | 1.47 | 0.45 | 0.044 | 13.41 |
| 1330 | 280. | 0.018 | 6.43 | 2.00 | 0.71 | 12.61 | 4.50 | 1.22 | 0.44 | 1.17 | 0.42 | 0.047 | 16.78 |
| 1331 | 300. | 0.018 | 6.00 | 2.33 | 0.78 | 14.43 | 4.81 | 1.11 | 0.37 | 1.26 | 0.42 | 0.041 | 13.67 |
| 1334 | 284. | 0.016 | 5.63 | 1.96 | 0.69 | 15.10 | 5.32 | 1.26 | 0.44 | 1.22 | 0.43 | 0.036 | 12.68 |
| 1335 | 324. | 0.012 | 3.70 | 1.93 | 0.60 | 15.81 | 4.88 | 1.28 | 0.40 | 1.40 | 0.43 | 0.036 | 11.11 |
| 1336 | 331. | 0.016 | 4.83 | 2.06 | 0.62 | 17.19 | 5.19 | 1.42 | 0.43 | 1.46 | 0.44 | 0.046 | 13.90 |
| 1338 | 345. | 0.022 | 6.38 | 2.10 | 0.61 | 18.61 | 5.39 | 1.56 | 0.45 | 1.53 | 0.44 | 0.051 | 14.78 |
| 1340 | 338. | 0.015 | 4.44 | 2.07 | 0.61 | 16.97 | 5.02 | 1.60 | 0.47 | 1.65 | 0.49 | 0.043 | 12.72 |
| 1341 | 316. | 0.029 | 9.18 | 2.06 | 0.65 | 16.15 | 5.11 | 1.17 | 0.37 | 1.18 | 0.37 | 0.039 | 12.34 |
| 1342 | 294. | 0.023 | 7.82 | 1.93 | 0.66 | 14.09 | 4.79 | 1.22 | 0.41 | 1.25 | 0.42 | 0.039 | 13.26 |
| 1344 | 333. | 0.020 | 6.01 | 2.26 | 0.68 | 17.38 | 5.22 | 1.61 | 0.48 | 1.41 | 0.42 | 0.053 | 15.92 |
| 1345 | 364. | 0.014 | 3.85 | 2.03 | 0.56 | 17.73 | 4.87 | 1.28 | 0.35 | 1.32 | 0.36 | 0.047 | 12.91 |
| 1346 | 325. | 0.018 | 5.54 | 2.03 | 0.62 | 17.30 | 5.32 | 1.35 | 0.42 | 1.41 | 0.43 | 0.052 | 16.00 |
| 1348 | 339. | 0.015 | 4.42 | 2.05 | 0.60 | 18.89 | 5.57 | 1.46 | 0.43 | 1.57 | 0.46 | 0.055 | 16.22 |
| 1350 | 339. | 0.016 | 4.72 | 2.03 | 0.60 | 18.24 | 5.38 | 1.37 | 0.40 | 1.42 | 0.42 | 0.063 | 18.58 |
| 1353 | 293. | 0.024 | 8.19 | 2.22 | 0.76 | 15.33 | 5.23 | 1.54 | 0.52 | 1.31 | 0.45 | 0.038 | 12.97 |
| 1355 | 313. | 0.007 | 2.24 | 2.04 | 0.65 | 16.39 | 5.24 | 1.40 | 0.45 | 1.38 | 0.44 | 0.037 | 11.82 |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | |
| 1359 | 313. | 0.017 | 5.43 | 2.10 | 0.67 | 15.16 | 4.84 | 1.35 | 0.43 | 1.31 | 0.42 | 0.031 | 9.90 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

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TABLE E36 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP I — 0 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT | | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW |
| 1302 | 284. | 0.028 | 9.86 | 0.63 | 0.22 | 0.13 | 0.04 | 0.054 | 19.01 | 0.068 | 23.94 | 0.48 | 0.17 |
| 1304 | 320. | 0.038 | 11.88 | 0.53 | 0.16 | 0.26 | 0.08 | 0.053 | 16.56 | 0.063 | 19.69 | 0.80 | 0.25 |
| 1306 | 335. | 0.037 | 11.04 | 0.59 | 0.18 | 0.21 | 0.06 | 0.045 | 13.43 | 0.057 | 17.01 | 0.65 | 0.19 |
| 1308 | 357. | 0.041 | 11.48 | 0.72 | 0.20 | 0.11 | 0.03 | 0.033 | 9.24 | 0.042 | 11.76 | 0.34 | 0.10 |
| 1310 | 331. | 0.047 | 14.20 | 0.66 | 0.20 | 0.18 | 0.05 | 0.045 | 13.60 | 0.049 | 14.80 | 0.70 | 0.21 |
| 1312 | 336. | 0.035 | 10.42 | 0.57 | 0.17 | 0.26 | 0.08 | 0.054 | 16.07 | 0.054 | 16.07 | 0.45 | 0.13 |
| 1313 | 298. | 0.030 | 10.07 | 0.62 | 0.21 | 0.30 | 0.10 | 0.043 | 14.43 | 0.050 | 16.78 | 0.58 | 0.19 |
| 1316 | NOT PREGNANT | | | | | | | | | | | | |
| 1318 | 369. | 0.036 | 9.76 | 0.64 | 0.17 | 0.24 | 0.06 | 0.055 | 14.90 | 0.054 | 14.63 | 0.49 | 0.13 |
| 1321 | 329. | 0.041 | 12.46 | 0.71 | 0.22 | 0.16 | 0.05 | 0.045 | 13.68 | 0.051 | 15.50 | 0.38 | 0.12 |
| 1325 | 323. | 0.035 | 10.84 | 0.57 | 0.18 | 0.23 | 0.07 | 0.037 | 11.46 | 0.032 | 9.91 | 0.78 | 0.24 |
| 1328 | 328. | 0.047 | 14.33 | 0.61 | 0.18 | 0.15 | 0.04 | 0.044 | 13.41 | 0.053 | 16.16 | 0.87 | 0.26 |
| 1330 | 280. | 0.040 | 14.28 | 0.56 | 0.20 | 0.16 | 0.06 | 0.040 | 14.28 | 0.046 | 16.43 | 0.33 | 0.12 |
| 1331 | 300. | 0.037 | 12.33 | 0.56 | 0.19 | 0.20 | 0.07 | 0.050 | 16.67 | 0.050 | 16.67 | 0.66 | 0.22 |
| 1334 | 284. | 0.031 | 10.92 | 0.52 | 0.18 | 0.22 | 0.08 | 0.029 | 10.21 | 0.033 | 11.62 | 0.40 | 0.14 |
| 1335 | 324. | 0.037 | 11.42 | 0.56 | 0.17 | 0.20 | 0.06 | 0.039 | 12.04 | 0.058 | 17.90 | 0.48 | 0.15 |
| 1336 | 331. | 0.043 | 12.99 | 0.47 | 0.14 | 0.10 | 0.03 | 0.047 | 14.20 | 0.055 | 16.62 | 0.39 | 0.12 |
| 1338 | 345. | 0.047 | 13.62 | 0.65 | 0.19 | 0.19 | 0.06 | 0.044 | 12.75 | 0.047 | 13.62 | 0.30b | 0.09 |
| 1340 | 338. | 0.041 | 12.13 | 0.76 | 0.22 | 0.30 | 0.09 | 0.070 | 20.71 | 0.092 | 27.22 | 0.79 | 0.23 |
| 1341 | 316. | 0.037 | 11.71 | 0.55 | 0.17 | 0.31 | 0.10 | 0.057 | 18.04 | 0.064 | 20.25 | 0.51 | 0.16 |
| 1342 | 294. | 0.036 | 12.24 | 0.60 | 0.20 | 0.20 | 0.07 | 0.058 | 19.73 | 0.034 | 11.56 | 0.53 | 0.18 |
| 1344 | 333. | 0.048 | 14.41 | 0.64 | 0.19 | 0.20 | 0.06 | 0.068 | 20.42 | 0.042 | 12.61 | 0.70 | 0.21 |
| 1345 | 364. | 0.041 | 11.26 | 0.65 | 0.18 | 0.13 | 0.04 | 0.049 | 13.46 | 0.055 | 15.11 | 0.32b | 0.09 |
| 1346 | 325. | 0.047 | 14.46 | 0.52 | 0.16 | 0.20 | 0.06 | 0.085 | 26.15 | 0.061 | 18.77 | 0.42 | 0.13 |
| 1348 | 339. | 0.052 | 15.34 | 0.57 | 0.17 | 0.18 | 0.05 | 0.063 | 18.58 | 0.062 | 18.29 | 0.60 | 0.18 |
| 1350 | 339. | 0.062 | 18.29 | 0.66 | 0.19 | 0.15 | 0.04 | 0.052 | 15.34 | 0.060 | 17.70 | 0.43 | 0.13 |
| 1353 | 293. | 0.035 | 11.94 | 0.52 | 0.18 | 0.26 | 0.09 | 0.061 | 20.82 | 0.075 | 25.60 | 0.52 | 0.18 |
| 1355 | 313. | 0.031 | 9.90 | 0.43 | 0.14 | 0.12 | 0.04 | 0.045 | 14.38 | 0.050 | 15.97 | 0.42 | 0.13 |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | |
| 1359 | 313. | 0.034 | 10.86 | 0.64 | 0.20 | 0.25 | 0.08 | 0.046 | 14.70 | 0.053 | 16.93 | 0.74 | 0.24 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

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TABLE E36 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP II 1 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY | | BRAIN | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a |
| 1362 | 287. | 0.015 | 5.23 | 2.09 | 0.73 | 14.91 | 5.20 | 1.29 | 0.45 | 1.28 | 0.44 | 0.041 | 14.28 |
| 1363 | 308. | 0.017 | 5.52 | 2.13 | 0.69 | 15.01 | 4.87 | 1.42 | 0.46 | 1.38 | 0.45 | 0.045 | 14.61 |
| 1364 | 323. | 0.019 | 5.88 | 2.10 | 0.65 | 17.48 | 5.41 | 1.39 | 0.43 | 1.40 | 0.43 | 0.042 | 13.00 |
| 1367 | 297. | 0.016 | 5.39 | 1.98 | 0.67 | 13.92 | 4.69 | 1.35 | 0.45 | 1.33 | 0.45 | 0.044 | 14.81 |
| 1368 | 310. | 0.014 | 4.52 | 1.95 | 0.63 | 15.62 | 5.04 | 1.45 | 0.47 | 1.44 | 0.46 | 0.053 | 17.10 |
| 1371 | 352. | 0.013 | 3.69 | 2.34 | 0.66 | 19.98 | 5.68 | 1.58 | 0.45 | 1.64 | 0.46 | 0.054 | 15.34 |
| 1375 | 299. | 0.017 | 5.68 | 2.00 | 0.67 | 14.17 | 4.74 | 1.25 | 0.42 | 1.32 | 0.44 | 0.048 | 16.05 |
| 1376 | 360. | 0.014 | 3.89 | 2.05 | 0.57 | 16.89 | 4.69 | 1.67 | 0.46 | 1.62 | 0.45 | 0.044 | 12.22 |
| 1378 | NOT PREGNANT | | | | | | | | | | | | |
| 1379 | 355. | 0.021 | 5.92 | 2.32 | 0.65 | 14.44 | 4.07 | 1.49 | 0.42 | 1.48 | 0.42 | 0.056 | 15.77 |
| 1381 | 282. | 0.016 | 5.67 | 2.13 | 0.76 | 13.26 | 4.70 | 1.52 | 0.54 | 1.51 | 0.54 | 0.038 | 13.48 |
| 1382 | 308. | 0.017 | 5.52 | 2.06 | 0.67 | 15.82 | 5.14 | 1.37 | 0.44 | 1.29 | 0.42 | 0.058 | 18.83 |
| 1383 | 350. | 0.023 | 6.57 | 1.97 | 0.56 | 17.23 | 4.92 | 1.52 | 0.43 | 1.51 | 0.43 | 0.041 | 11.71 |
| 1384 | 262. | 0.014 | 5.34 | 1.94 | 0.74 | 12.14 | 4.63 | 1.08 | 0.41 | 1.15 | 0.44 | 0.032 | 12.21 |
| 1387 | 338. | 0.012 | 3.55 | 2.06 | 0.61 | 17.48 | 5.17 | 1.26 | 0.37 | 1.43 | 0.42 | 0.046 | 13.61 |
| 1389 | 344. | 0.017 | 4.94 | 2.04 | 0.59 | 16.17 | 4.70 | 1.33 | 0.39 | 1.29 | 0.38 | 0.041 | 11.92 |
| 1392 | 347. | 0.021 | 6.05 | 2.23 | 0.64 | 18.85 | 5.43 | 1.62 | 0.47 | 1.59 | 0.46 | 0.048 | 13.83 |
| 1393 | 330. | 0.013 | 3.94 | 2.02 | 0.61 | 16.60 | 5.03 | 1.25 | 0.38 | 1.29 | 0.39 | 0.041 | 12.42 |
| 1397 | 331. | 0.018 | 5.44 | 2.10 | 0.63 | 17.41 | 5.26 | 1.49 | 0.45 | 1.57 | 0.47 | 0.046 | 13.90 |
| 1399 | 320. | 0.013 | 4.06 | 2.26 | 0.71 | 16.58 | 5.18 | 1.38 | 0.43 | 1.38 | 0.43 | 0.032 | 10.00 |
| 1401 | 297. | 0.014 | 4.71 | 1.95 | 0.66 | 13.63 | 4.59 | 1.28 | 0.43 | 1.19 | 0.40 | 0.034 | 11.45 |
| 1404 | 332. | 0.017 | 5.12 | 2.03 | 0.61 | 15.01 | 4.52 | 1.16 | 0.35 | 1.22 | 0.37 | 0.047 | 14.16 |
| 1407 | 325. | 0.015 | 4.62 | 2.07 | 0.64 | 15.09 | 4.64 | 1.40 | 0.43 | 1.36 | 0.42 | 0.040 | 12.31 |
| 1409 | 327. | 0.015 | 4.59 | 2.06 | 0.63 | 15.90 | 4.86 | 1.22 | 0.37 | 1.28 | 0.39 | 0.031 | 9.48 |
| 1410 | 344. | 0.019 | 5.52 | 2.05 | 0.60 | 18.06 | 5.25 | 1.45 | 0.42 | 1.51 | 0.44 | 0.044 | 12.79 |
| 1413 | 320. | 0.015 | 4.69 | 2.29 | 0.72 | 16.36 | 5.11 | 1.46 | 0.46 | 1.55 | 0.48 | 0.043 | 13.44 |
| 1415 | 339. | 0.011 | 3.24 | 1.92 | 0.57 | 17.79 | 5.25 | 1.51 | 0.44 | 1.52 | 0.45 | 0.046 | 13.57 |
| 1416 | 303. | 0.018 | 5.94 | 2.23 | 0.74 | 15.44 | 5.10 | 1.48 | 0.49 | 1.55 | 0.51 | 0.044 | 14.52 |
| 1418 | 317. | 0.013 | 4.10 | 2.15 | 0.68 | 15.71 | 4.96 | 1.22 | 0.38 | 1.32 | 0.42 | 0.040 | 12.62 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E36 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP II — 1 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT | | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW |
| 1362 | 287. | 0.038 | 13.24 | 0.73 | 0.25 | 0.20 | 0.07 | 0.062 | 21.60 | 0.064 | 22.30 | 0.80 | 0.28 |
| 1363 | 308. | 0.049 | 15.91 | 0.50 | 0.16 | 0.17 | 0.06 | 0.055 | 17.86 | 0.076 | 24.68 | 0.68 | 0.22 |
| 1364 | 323. | 0.039 | 12.07 | 0.47 | 0.14 | 0.07 | 0.02 | 0.055 | 17.03 | 0.061 | 18.88 | 0.46 | 0.14 |
| 1367 | 297. | 0.041 | 13.80 | 0.50 | 0.17 | 0.11 | 0.04 | 0.054 | 18.18 | 0.058 | 19.53 | 0.62 | 0.21 |
| 1368 | 310. | 0.047 | 15.16 | 0.53 | 0.17 | 0.20 | 0.06 | 0.054 | 17.42 | 0.054 | 17.42 | 0.50 | 0.16 |
| 1371 | 352. | 0.046 | 13.07 | 0.56 | 0.16 | 0.21 | 0.06 | 0.087 | 24.72 | 0.032 | 9.09 | 0.55 | 0.16 |
| 1375 | 299. | 0.043 | 14.38 | 0.64 | 0.21 | 0.19 | 0.06 | 0.050 | 16.72 | 0.040 | 13.38 | 0.67 | 0.22 |
| 1376 | 360. | 0.042 | 11.67 | 0.58 | 0.16 | 0.24 | 0.07 | 0.046 | 12.78 | 0.056 | 15.56 | 0.38 | 0.10 |
| 1378 | NOT PREGNANT | | | | | | | | | | | | |
| 1379 | 355. | 0.053 | 14.93 | 0.60 | 0.17 | 0.17 | 0.05 | 0.054 | 15.21 | 0.068 | 19.15 | 0.69 | 0.19 |
| 1381 | 282. | 0.036 | 12.76 | 0.50 | 0.18 | 0.27 | 0.10 | 0.055 | 19.50 | 0.076 | 26.95 | 0.63 | 0.22 |
| 1382 | 308. | 0.052 | 16.88 | 0.83 | 0.27 | 0.16 | 0.05 | 0.043 | 13.96 | 0.046 | 14.94 | 0.53 | 0.17 |
| 1383 | 350. | 0.031 | 8.86 | 0.59 | 0.17 | 0.24 | 0.07 | 0.059 | 16.86 | 0.066 | 18.86 | 0.57 | 0.16 |
| 1384 | 262. | 0.028 | 10.69 | 0.57 | 0.22 | 0.12 | 0.04 | 0.051 | 19.46 | 0.060 | 22.90 | 0.83 | 0.32 |
| 1387 | 338. | 0.042 | 12.43 | 0.59 | 0.17 | 0.20 | 0.06 | 0.056 | 16.57 | 0.056 | 16.57 | 0.55 | 0.16 |
| 1389 | 344. | 0.047 | 13.66 | 0.68 | 0.20 | 0.14 | 0.04 | 0.047 | 13.66 | 0.058 | 16.86 | 0.74 | 0.22 |
| 1392 | 347. | 0.041 | 11.82 | 0.61 | 0.18 | 0.12 | 0.03 | 0.047 | 13.54 | 0.056 | 16.14 | 0.38 | 0.11 |
| 1393 | 330. | 0.041 | 12.42 | 0.57 | 0.17 | 0.23 | 0.07 | 0.054 | 16.36 | 0.035 | 10.61 | 0.37 | 0.11 |
| 1397 | 331. | 0.043 | 12.99 | 0.63 | 0.19 | 0.21 | 0.06 | 0.053 | 16.01 | 0.060 | 18.13 | 0.46 | 0.14 |
| 1399 | 320. | 0.031 | 9.69 | 0.63 | 0.20 | 0.18 | 0.06 | 0.058 | 18.12 | 0.053 | 16.56 | 0.47 | 0.15 |
| 1401 | 297. | 0.033 | 11.11 | 0.67 | 0.22 | 0.21 | 0.07 | 0.042 | 14.14 | 0.045 | 15.15 | 0.57 | 0.19 |
| 1404 | 332. | 0.039 | 11.75 | 0.48 | 0.14 | 0.28 | 0.08 | 0.085 | 25.60 | 0.061 | 18.37 | 0.42b | 0.13 |
| 1407 | 325. | 0.039 | 12.00 | 0.65 | 0.20 | 0.20 | 0.06 | 0.044 | 13.54 | 0.036 | 11.08 | 0.40 | 0.12 |
| 1409 | 327. | 0.028 | 8.56 | 0.41 | 0.12 | 0.20 | 0.06 | 0.045 | 13.76 | 0.041 | 12.54 | 0.34 | 0.10 |
| 1410 | 344. | 0.035 | 10.17 | 0.58 | 0.17 | 0.20 | 0.06 | 0.054 | 15.70 | 0.051 | 14.82 | 0.60 | 0.17 |
| 1413 | 320. | 0.054 | 16.88 | 1.03 | 0.32 | 0.17 | 0.05 | 0.078 | 24.38 | 0.048 | 15.00 | 1.00 | 0.31 |
| 1415 | 339. | 0.052 | 15.34 | 0.72 | 0.21 | 0.32 | 0.09 | 0.040 | 11.80 | 0.038 | 11.21 | 0.69 | 0.20 |
| 1416 | 303. | 0.041 | 13.53 | 0.59 | 0.19 | 0.14 | 0.05 | 0.044 | 14.52 | 0.038 | 12.54 | 0.43 | 0.14 |
| 1418 | 317. | 0.035 | 11.04 | 0.57 | 0.18 | 0.14 | 0.04 | 0.040 | 12.62 | 0.062 | 19.56 | 0.46 | 0.14 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E36 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP III 3 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY | | BRAIN | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a |
| 1421 | 326. | 0.009 | 2.76 | 1.96 | 0.60 | 16.89 | 5.18 | 1.44 | 0.44 | 1.40 | 0.43 | 0.049 | 15.03 |
| 1424 | 307. | 0.013 | 4.23 | 2.05 | 0.67 | 16.43 | 5.35 | 1.42 | 0.46 | 1.36 | 0.44 | 0.048 | 15.64 |
| 1426 | 369. | 0.019 | 5.15 | 2.12 | 0.57 | 18.04 | 4.89 | 1.37 | 0.37 | 1.40 | 0.38 | 0.051 | 13.82 |
| 1428 | 334. | 0.016 | 4.79 | 2.18 | 0.65 | 16.19 | 4.85 | 1.50b | 0.45 | 1.54b | 0.46 | 0.046 | 13.77 |
| 1430 | 308. | 0.017 | 5.52 | 1.85 | 0.60 | 15.49 | 5.03 | 15.30c | 4.97c | 1.63 | 0.53 | 0.048 | 15.58 |
| 1431 | 358. | 0.015 | 4.19 | 2.02 | 0.56 | 19.48 | 5.44 | 1.49 | 0.42 | 1.63 | 0.46 | 0.042 | 11.73 |
| 1433 | 314. | 0.014 | 4.46 | 1.95 | 0.62 | 16.49 | 5.25 | 1.36 | 0.43 | 1.42 | 0.45 | 0.041 | 13.06 |
| 1436 | 341. | 0.018 | 5.28 | 2.20 | 0.64 | 15.80 | 4.63 | 1.28 | 0.38 | 1.30 | 0.38 | 0.041 | 12.02 |
| 1437 | 311. | 0.015 | 4.82 | 2.18 | 0.70 | 17.76 | 5.71 | 1.41 | 0.45 | 1.47 | 0.47 | 0.044 | 14.15 |
| 1439 | 361. | 0.017 | 4.71 | 2.01 | 0.56 | 16.30 | 4.52 | 1.48 | 0.41 | 1.43 | 0.40 | 0.048 | 13.30 |
| 1442 | 344. | 0.016 | 4.65 | 2.05 | 0.60 | 15.42 | 4.48 | 1.35 | 0.39 | 1.38 | 0.40 | 0.046 | 13.37 |
| 1443 | 336. | 0.018 | 5.36 | 2.07 | 0.62 | 14.80 | 4.40 | 1.28 | 0.38 | 1.33 | 0.40 | 0.053 | 15.77 |
| 1446 | NOT PREGNANT | | | | | | | | | | | | |
| 1448 | 343. | 0.015 | 4.37 | 2.23 | 0.65 | 17.20 | 5.01 | 1.45 | 0.42 | 1.50 | 0.44 | 0.040 | 11.66 |
| 1450 | 331. | 0.015 | 4.53 | 2.13 | 0.64 | 18.62 | 5.62 | 1.29 | 0.39 | 1.36 | 0.41 | 0.041 | 12.39 |
| 1452 | 301. | 0.016 | 5.32 | 1.96 | 0.65 | 15.77 | 5.24 | 1.34 | 0.44 | 1.38 | 0.46 | 0.043 | 14.28 |
| 1455 | 332. | 0.012 | 3.61 | 2.27 | 0.68 | 18.40 | 5.54 | 1.51 | 0.45 | 1.44 | 0.43 | 0.041 | 12.35 |
| 1456 | 329. | 0.017 | 5.17 | 2.13 | 0.65 | 16.01 | 4.87 | 1.54 | 0.47 | 1.55 | 0.47 | 0.032 | 9.73 |
| 1458 | NOT PREGNANT | | | | | | | | | | | | |
| 1459 | 368. | 0.018 | 4.89 | 2.04 | 0.55 | 17.41 | 4.73 | 1.45 | 0.39 | 1.48 | 0.40 | 0.043 | 11.68 |
| 1461 | 336. | 0.017 | 5.06 | 2.00 | 0.60 | 13.89 | 4.13 | 1.29 | 0.38 | 1.32 | 0.39 | 0.037 | 11.01 |
| 1463 | 302. | 0.016 | 5.30 | 2.07 | 0.68 | 14.98 | 4.96 | 1.34 | 0.44 | 1.32 | 0.44 | 0.043 | 14.24 |
| 1465 | 297. | 0.006 | 2.02 | 1.99 | 0.67 | 15.23 | 5.13 | 1.38 | 0.46 | 1.25 | 0.42 | 0.041 | 13.80 |
| 1468 | 300. | 0.015 | 5.00 | 2.02 | 0.67 | 14.72 | 4.91 | 1.45 | 0.48 | 1.45 | 0.48 | 0.046 | 15.33 |
| 1469 | 317. | 0.016 | 5.05 | 2.17 | 0.68 | 15.62 | 4.93 | 1.24 | 0.39 | 1.26 | 0.40 | 0.051 | 16.09 |
| 1472 | 309. | 0.013 | 4.21 | 2.08 | 0.67 | 15.33 | 4.96 | 1.62 | 0.52 | 1.32 | 0.43 | 0.036 | 11.65 |
| 1474 | 310. | 0.014 | 4.52 | 2.10 | 0.68 | 14.41 | 4.65 | 1.31 | 0.42 | 1.37 | 0.44 | 0.050 | 16.13 |
| 1476 | 358. | 0.013 | 3.63 | 1.96 | 0.55 | 17.55 | 4.90 | 1.50 | 0.42 | 1.48 | 0.41 | 0.033 | 9.22 |
| 1477 | 335. | 0.021 | 6.27 | 2.25 | 0.67 | 17.98 | 5.37 | 1.48 | 0.44 | 1.50 | 0.45 | 0.055 | 16.42 |
| 1480 | 340. | 0.018 | 5.29 | 2.13 | 0.63 | 17.23 | 5.07 | 1.43 | 0.42 | 1.44 | 0.42 | 0.058 | 17.06 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 1428 had slight dilation of the pelvis in both kidneys.

c. Value was presumed incorrectly recorded; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E36 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT | | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW |
| 1421 | 326. | 0.043 | 13.19 | 0.58 | 0.18 | 0.23 | 0.07 | 0.034 | 10.43 | 0.035 | 10.74 | 0.34 | 0.10 |
| 1424 | 307. | 0.046 | 14.98 | 0.64 | 0.21 | 0.20 | 0.06 | 0.057 | 18.57 | 0.031 | 10.10 | 0.64 | 0.21 |
| 1426 | 369. | 0.046 | 12.47 | 0.61 | 0.16 | 0.21 | 0.06 | 0.047 | 12.74 | 0.053 | 14.36 | 0.49 | 0.13 |
| 1428 | 334. | 0.047 | 14.07 | 0.62 | 0.18 | 0.14 | 0.04 | 0.059 | 17.66 | 0.055 | 16.47 | 0.47 | 0.14 |
| 1430 | 308. | 0.042 | 13.64 | 0.58 | 0.19 | 0.20 | 0.06 | 0.056 | 18.18 | 0.064 | 20.78 | 0.62 | 0.20 |
| 1431 | 358. | 0.043 | 12.01 | 0.71 | 0.20 | 0.29 | 0.08 | 0.075 | 20.95 | 0.056 | 15.64 | 0.59 | 0.16 |
| 1433 | 314. | 0.050 | 15.92 | 0.55 | 0.18 | 0.28 | 0.09 | 0.055 | 17.52 | 0.043 | 13.69 | 1.18 | 0.38 |
| 1436 | 341. | 0.039 | 11.44 | 0.64 | 0.19 | 0.26 | 0.08 | 0.068 | 19.94 | 0.034 | 9.97 | 0.83 | 0.24 |
| 1437 | 311. | 0.039 | 12.54 | 0.58 | 0.19 | 0.07 | 0.02 | 0.037 | 11.90 | 0.044 | 14.15 | 0.46 | 0.15 |
| 1439 | 361. | 0.044 | 12.19 | 0.52 | 0.14 | 0.23 | 0.06 | 0.042 | 11.63 | 0.056 | 15.51 | 0.37 | 0.10 |
| 1442 | 344. | 0.042 | 12.21 | 0.73 | 0.21 | 0.11 | 0.03 | 0.062 | 18.02 | 0.057 | 16.57 | 0.51 | 0.15 |
| 1443 | 336. | 0.052 | 15.48 | 0.60 | 0.18 | 0.22 | 0.06 | 0.045 | 13.39 | 0.041 | 12.20 | 0.54 | 0.16 |
| 1446 | NOT PREGNANT | | | | | | | | | | | | |
| 1448 | 343. | 0.037 | 10.79 | 0.70 | 0.20 | 0.20 | 0.06 | 0.042 | 12.24 | 0.045 | 13.12 | 0.50b | 0.14 |
| 1450 | 331. | 0.039 | 11.78 | 0.58 | 0.18 | 0.21 | 0.06 | 0.033 | 9.97 | 0.044 | 13.29 | 0.42 | 0.13 |
| 1452 | 301. | 0.037 | 12.29 | 0.62 | 0.20 | 0.23 | 0.08 | 0.047 | 15.61 | 0.043 | 14.28 | 0.45 | 0.15 |
| 1455 | 332. | 0.028 | 8.43 | 0.67 | 0.20 | 0.35 | 0.10 | 0.069 | 20.78 | 0.062 | 18.67 | 0.75 | 0.22 |
| 1456 | 329. | 0.042 | 12.76 | 0.70 | 0.21 | 0.29 | 0.09 | 0.052 | 15.80 | 0.068 | 20.67 | 0.67 | 0.20 |
| 1458 | NOT PREGNANT | | | | | | | | | | | | |
| 1459 | 368. | 0.036 | 9.78 | 0.57 | 0.15 | 0.12 | 0.03 | 0.038 | 10.33 | 0.045 | 12.23 | 0.28 | 0.08 |
| 1461 | 336. | 0.033 | 9.82 | 0.55 | 0.16 | 0.18 | 0.05 | 0.038 | 11.31 | 0.035 | 10.42 | 0.56 | 0.17 |
| 1463 | 302. | 0.041 | 13.58 | 0.57 | 0.19 | 0.18 | 0.06 | 0.046 | 15.23 | 0.046 | 15.23 | 0.60 | 0.20 |
| 1465 | 297. | 0.036 | 12.12 | 0.51 | 0.17 | 0.22 | 0.07 | 0.056 | 18.86 | 0.056 | 18.86 | 0.49 | 0.16 |
| 1468 | 300. | 0.033 | 11.00 | 0.55 | 0.18 | 0.18 | 0.06 | 0.071 | 23.67 | 0.057 | 19.00 | 0.58 | 0.19 |
| 1469 | 317. | 0.039 | 12.30 | 0.56 | 0.18 | 0.17 | 0.05 | 0.054 | 17.03 | 0.056 | 17.66 | 0.51 | 0.16 |
| 1472 | 309. | 0.043 | 13.92 | 0.61 | 0.20 | 0.40 | 0.13 | 0.064 | 20.71 | 0.062 | 20.06 | 0.83 | 0.27 |
| 1474 | 310. | 0.042 | 13.55 | 0.62 | 0.20 | 0.24 | 0.08 | 0.043 | 13.87 | 0.037 | 11.94 | 0.72 | 0.23 |
| 1476 | 358. | 0.038 | 10.61 | 0.51 | 0.14 | 0.19 | 0.05 | 0.050 | 13.97 | 0.059 | 16.48 | 0.56 | 0.16 |
| 1477 | 335. | 0.053 | 15.82 | 0.63 | 0.19 | 0.10 | 0.03 | 0.040 | 11.94 | 0.039 | 11.64 | 0.50 | 0.15 |
| 1480 | 340. | 0.048 | 14.12 | 0.60 | 0.18 | 0.23 | 0.07 | 0.051 | 15.00 | 0.051 | 15.00 | 0.54 | 0.16 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E36 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY | | BRAIN | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a |
| 1482 | 313. | 0.015 | 4.79 | 2.23 | 0.71 | 15.34 | 4.90 | 1.26 | 0.40 | 1.25 | 0.40 | 0.045 | 14.38 |
| 1483 | NOT PREGNANT | | | | | | | | | | | | |
| 1486 | 316. | 0.017 | 5.38 | 1.90 | 0.60 | 18.55 | 5.87 | 1.37 | 0.43 | 1.31 | 0.41 | 0.054 | 17.09 |
| 1488 | 359. | 0.013 | 3.62 | 2.06 | 0.57 | 17.62 | 4.91 | 1.33 | 0.37 | 1.41 | 0.39 | 0.042 | 11.70 |
| 1490 | 368. | 0.015 | 4.08 | 2.12 | 0.58 | 20.37 | 5.54 | 1.65 | 0.45 | 1.56 | 0.42 | 0.052 | 14.13 |
| 1491 | 316. | 0.014 | 4.43 | 2.05 | 0.65 | 16.20 | 5.13 | 1.24 | 0.39 | 1.28 | 0.40 | 0.044 | 13.92 |
| 1494 | 353. | 0.016 | 4.53 | 2.12 | 0.60 | 16.00 | 4.53 | 1.52 | 0.43 | 1.49 | 0.42 | 0.042 | 11.90 |
| 1496 | 319. | 0.015 | 4.70 | 1.76 | 0.55 | 16.62 | 5.21 | 1.33 | 0.42 | 1.28 | 0.40 | 0.047 | 14.73 |
| 1497 | 355. | 0.016 | 4.51 | 2.23 | 0.63 | 15.83 | 4.46 | 1.50 | 0.42 | 1.48 | 0.42 | 0.044 | 12.39 |
| 1500 | 302. | 0.018 | 5.96 | 1.97 | 0.65 | 16.39 | 5.43 | 1.48 | 0.49 | 1.49 | 0.49 | 0.042 | 13.91 |
| 1502 | 322. | 0.014 | 4.35 | 2.05 | 0.64 | 14.76 | 4.58 | 1.18 | 0.37 | 1.22 | 0.38 | 0.041 | 12.73 |
| 1505 | 318. | 0.015 | 4.72 | 2.05 | 0.64 | 16.77 | 5.27 | 1.51 | 0.47 | 1.68 | 0.53 | 0.046 | 14.46 |
| 1507 | 341. | 0.015 | 4.40 | 2.21 | 0.65 | 18.65 | 5.47 | 1.46 | 0.43 | 1.51 | 0.44 | 0.051 | 14.96 |
| 1508 | 338. | 0.013 | 3.85 | 2.20 | 0.65 | 16.98 | 5.02 | 1.39 | 0.41 | 1.46 | 0.43 | 0.041 | 12.13 |
| 1511 | NOT PREGNANT | | | | | | | | | | | | |
| 1513 | 250. | 0.017 | 6.80 | 2.24 | 0.90 | 13.67 | 5.47 | 1.28 | 0.51 | 1.30 | 0.52 | 0.043 | 17.20 |
| 1514 | 325. | 0.016 | 4.92 | 2.19 | 0.67 | 15.60 | 4.80 | 1.32 | 0.41 | 1.38 | 0.42 | 0.053 | 16.31 |
| 1516 | 316. | 0.014 | 4.43 | 2.15 | 0.68 | 15.89 | 5.03 | 1.28 | 0.40 | 1.27 | 0.40 | 0.036 | 11.39 |
| 1517 | 325. | 0.013 | 4.00 | 2.03 | 0.62 | 17.35 | 5.34 | 1.13 | 0.35 | 1.13 | 0.35 | 0.043 | 13.23 |
| 1519 | 317. | 0.017 | 5.36 | 2.08 | 0.66 | 17.52 | 5.53 | 1.45 | 0.46 | 1.56 | 0.49 | 0.047 | 14.83 |
| 1521 | 312. | 0.016 | 5.13 | 2.18 | 0.70 | 15.27 | 4.89 | 1.35 | 0.43 | 1.42 | 0.46 | 0.046 | 14.74 |
| 1523 | 313. | 0.011 | 3.51 | 2.02 | 0.64 | 15.78 | 5.04 | 1.32 | 0.42 | 1.38 | 0.44 | 0.041 | 13.10 |
| 1524 | 326. | 0.010 | 3.07 | 1.98 | 0.61 | 13.46 | 4.13 | 1.24 | 0.38 | 1.21 | 0.37 | 0.030 | 9.20 |
| 1527 | 315. | 0.023 | 7.30 | 2.14 | 0.68 | 18.04 | 5.73 | 1.35 | 0.43 | 1.42 | 0.45 | 0.051 | 16.19 |
| 1528 | 310. | 0.015 | 4.84 | 2.11 | 0.68 | 15.96 | 5.15 | 1.46 | 0.47 | 1.53 | 0.49 | 0.044 | 14.19 |
| 1531 | 350. | 0.014 | 4.00 | 2.15 | 0.61 | 18.68 | 5.34 | 1.49 | 0.42 | 1.58 | 0.45 | 0.054 | 15.43 |
| 1533 | 347. | 0.017 | 4.90 | 2.11 | 0.61 | 19.96 | 5.75 | 1.56 | 0.45 | 1.61 | 0.46 | 0.053 | 15.27 |
| 1534 | 316. | 0.015 | 4.75 | 2.20 | 0.70 | 16.16 | 5.11 | 1.38 | 0.44 | 1.37 | 0.43 | 0.041 | 12.97 |
| 1537 | 306. | 0.015 | 4.90 | 1.93 | 0.63 | 15.08 | 4.93 | 1.21 | 0.40 | 1.25 | 0.41 | 0.046 | 15.03 |
| 1539 | 355. | 0.017 | 4.79 | 2.22 | 0.62 | 18.63 | 5.25 | 1.69 | 0.48 | 1.81 | 0.51 | 0.056 | 15.77 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E36 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP IV — 10 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT | | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW |
| 1482 | 313. | 0.035 | 11.18 | 0.53 | 0.17 | 0.29 | 0.09 | 0.046 | 14.70 | 0.044 | 14.06 | 0.68 | 0.22 |
| 1483 | NOT PREGNANT | | | | | | | | | | | | |
| 1486 | 316. | 0.047 | 14.87 | 0.58 | 0.18 | 0.11 | 0.03 | 0.065 | 20.57 | 0.049 | 15.51 | 0.57 | 0.18 |
| 1488 | 359. | 0.043 | 11.98 | 0.61 | 0.17 | 0.33 | 0.09 | 0.041 | 11.42 | 0.033 | 9.19 | 0.44 | 0.12 |
| 1490 | 368. | 0.045 | 12.23 | 0.66 | 0.18 | 0.26 | 0.07 | 0.076 | 20.65 | 0.068 | 18.48 | 0.53 | 0.14 |
| 1491 | 316. | 0.040 | 12.66 | 0.56 | 0.18 | 0.10 | 0.03 | 0.031 | 9.81 | 0.049 | 15.51 | 0.67 | 0.21 |
| 1494 | 353. | 0.042 | 11.90 | 0.46 | 0.13 | 0.12 | 0.03 | 0.039 | 11.05 | 0.059 | 16.71 | 0.60 | 0.17 |
| 1496 | 319. | 0.047 | 14.73 | 0.57 | 0.18 | 0.15 | 0.05 | 0.045 | 14.11 | 0.063 | 19.75 | 0.56 | 0.18 |
| 1497 | 355. | 0.040 | 11.27 | 0.68 | 0.19 | 0.26 | 0.07 | 0.065 | 18.31 | 0.070 | 19.72 | 0.84 | 0.24 |
| 1500 | 302. | 0.041 | 13.58 | 0.48 | 0.16 | 0.24 | 0.08 | 0.046 | 15.23 | 0.054 | 17.88 | 0.69 | 0.23 |
| 1502 | 322. | 0.042 | 13.04 | 0.48 | 0.15 | 0.13 | 0.04 | 0.063 | 19.56 | 0.066 | 20.50 | 0.42 | 0.13 |
| 1505 | 318. | 0.040 | 12.58 | 0.70 | 0.22 | 0.23 | 0.07 | 0.048 | 15.09 | 0.045 | 14.15 | 0.41 | 0.13 |
| 1507 | 341. | 0.050 | 14.66 | 0.54 | 0.16 | 0.21 | 0.06 | 0.040 | 11.73 | 0.056 | 16.42 | 0.42 | 0.12 |
| 1508 | 338. | 0.042 | 12.43 | 0.64 | 0.19 | 0.13 | 0.04 | 0.048 | 14.20 | 0.044 | 13.02 | 0.74 | 0.22 |
| 1511 | NOT PREGNANT | | | | | | | | | | | | |
| 1513 | 250. | 0.044 | 17.60 | 0.51 | 0.20 | 0.10 | 0.04 | 0.048 | 19.20 | 0.048 | 19.20 | 0.62 | 0.25 |
| 1514 | 325. | 0.043 | 13.23 | 0.67 | 0.21 | 0.16 | 0.05 | 0.042 | 12.92 | 0.046 | 14.15 | 0.50 | 0.15 |
| 1516 | 316. | 0.033 | 10.44 | 0.55 | 0.17 | 0.18 | 0.06 | 0.064 | 20.25 | 0.045 | 14.24 | 0.54 | 0.17 |
| 1517 | 325. | 0.041 | 12.62 | 0.58 | 0.18 | 0.10 | 0.03 | 0.041 | 12.62 | 0.051 | 15.69 | 0.65 | 0.20 |
| 1519 | 317. | 0.041 | 12.93 | 0.52 | 0.16 | 0.17 | 0.05 | 0.044 | 13.88 | 0.056 | 17.66 | 0.51 | 0.16 |
| 1521 | 312. | 0.045 | 14.42 | 0.60 | 0.19 | 0.08 | 0.02 | 0.045 | 14.42 | 0.040 | 12.82 | 0.49 | 0.16 |
| 1523 | 313. | 0.040 | 12.78 | 0.54 | 0.17 | 0.35 | 0.11 | 0.051 | 16.29 | 0.039 | 12.46 | 0.84 | 0.27 |
| 1524 | 326. | 0.026 | 7.98 | 0.74 | 0.23 | 0.38 | 0.12 | 0.050 | 15.34 | 0.057 | 17.48 | 0.47 | 0.14 |
| 1527 | 315. | 0.042 | 13.33 | 0.82 | 0.26 | 0.23 | 0.07 | 0.056 | 17.78 | 0.035 | 11.11 | 0.68 | 0.22 |
| 1528 | 310. | 0.035 | 11.29 | 0.67 | 0.22 | 0.26 | 0.08 | 0.037 | 11.94 | 0.052 | 16.77 | 0.43 | 0.14 |
| 1531 | 350. | 0.049 | 14.00 | 0.67 | 0.19 | 0.30 | 0.08 | 0.042 | 12.00 | 0.049 | 14.00 | 0.53 | 0.15 |
| 1533 | 347. | 0.041 | 11.82 | 0.66 | 0.19 | 0.20 | 0.06 | 0.045 | 12.97 | 0.053 | 15.27 | 0.52 | 0.15 |
| 1534 | 316. | 0.031 | 9.81 | 0.50 | 0.16 | 0.17 | 0.05 | 0.060 | 18.99 | 0.035 | 11.08 | 0.42 | 0.13 |
| 1537 | 306. | 0.051 | 16.67 | 0.51 | 0.17 | 0.15 | 0.05 | 0.044 | 14.38 | 0.043 | 14.05 | 0.49 | 0.16 |
| 1539 | 355. | 0.052 | 14.65 | 0.57 | 0.16 | 0.29 | 0.08 | 0.061 | 17.18 | 0.075 | 21.13 | 0.40 | 0.11 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.
a. Value was multiplied by 1000.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E36 (PAGE 9): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | PITUITARY | | BRAIN | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a |
| 1541 | 296. | 0.022 | 7.43 | 2.00 | 0.68 | 14.69 | 4.96 | 1.11 | 0.38 | 1.20 | 0.40 | 0.050 | 16.89 |
| 1544 | 342. | 0.016 | 4.68 | 2.12 | 0.62 | 16.14 | 4.72 | 1.57 | 0.46 | 1.65 | 0.48 | 0.040 | 11.70 |
| 1545 | 298. | 0.012 | 4.03 | 2.13 | 0.71 | 17.89 | 6.00 | 1.40 | 0.47 | 1.47 | 0.49 | 0.065 | 21.81 |
| 1546 | 329. | 0.019 | 5.78 | 2.04 | 0.62 | 17.75 | 5.40 | 1.32 | 0.40 | 1.45 | 0.44 | 0.032 | 9.73 |
| 1548 | 306. | 0.017 | 5.56 | 2.02 | 0.66 | 18.02 | 5.89 | 1.49 | 0.49 | 1.50 | 0.49 | 0.053 | 17.32 |
| 1550 | 298. | 0.016 | 5.37 | 2.05 | 0.69 | 19.33 | 6.49 | 1.29 | 0.43 | 1.33 | 0.45 | 0.055 | 18.46 |
| 1552 | 319. | 0.018 | 5.64 | 2.19 | 0.69 | 16.81 | 5.27 | 1.43 | 0.45 | 1.56 | 0.49 | 0.042 | 13.17 |
| 1555 | 312. | 0.009 | 2.88 | 2.03 | 0.65 | 15.58 | 4.99 | 1.21 | 0.39 | 1.25 | 0.40 | 0.045 | 14.42 |
| 1557 | 319. | 0.018 | 5.64 | 2.20 | 0.69 | 15.27 | 4.79 | 1.30 | 0.41 | 1.24 | 0.39 | 0.039 | 12.22 |
| 1558 | 288. | 0.011 | 3.82 | 2.01 | 0.70 | 17.49 | 6.07 | 1.50 | 0.52 | 1.55 | 0.54 | 0.042 | 14.58 |
| 1560 | 325. | 0.015 | 4.62 | 2.21 | 0.68 | 18.14 | 5.58 | 1.37 | 0.42 | 1.57 | 0.48 | 0.041 | 12.62 |
| 1564 | 309. | 0.012 | 3.88 | 2.00 | 0.65 | 17.80 | 5.76 | 1.37 | 0.44 | 1.39 | 0.45 | 0.044 | 14.24 |
| 1565 | 275. | 0.013 | 4.73 | 2.03 | 0.74 | 14.42 | 5.24 | 1.11 | 0.40 | 1.22 | 0.44 | 0.042 | 15.27 |
| 1566 | 324. | 0.010 | 3.09 | 2.13 | 0.66 | 17.00 | 5.25 | 1.30 | 0.40 | 1.28 | 0.40 | 0.053 | 16.36 |
| 1568 | 339. | 0.018 | 5.31 | 2.21 | 0.65 | 15.50 | 4.57 | 1.24 | 0.36 | 1.27 | 0.37 | 0.040 | 11.80 |
| 1571 | 304. | 0.010 | 3.29 | 1.91 | 0.63 | 15.97 | 5.25 | 1.14 | 0.38 | 1.23 | 0.40 | 0.043 | 14.14 |
| 1573 | 336. | 0.015 | 4.46 | 2.03 | 0.60 | 17.15 | 5.10 | 1.20 | 0.36 | 1.20 | 0.36 | 0.033 | 9.82 |
| 1576 | 292. | 0.015 | 5.14 | 1.78 | 0.61 | 15.62 | 5.35 | 1.20 | 0.41 | 1.29 | 0.44 | 0.043 | 14.73 |
| 1578 | NOT PREGNANT | | | | | | | | | | | | |
| 1579 | 346. | 0.013 | 3.76 | 1.99 | 0.58 | 17.26 | 4.99 | 1.37 | 0.40 | 1.37 | 0.40 | 0.044 | 12.72 |
| 1583 | 303. | 0.014 | 4.62 | 2.11 | 0.70 | 16.59 | 5.48 | 1.38 | 0.46 | 1.42 | 0.47 | 0.044 | 14.52 |
| 1584 | 294. | 0.016 | 5.44 | 2.13 | 0.72 | 13.71 | 4.66 | 1.19 | 0.40 | 1.19 | 0.40 | 0.024 | 8.16 |
| 1586 | 294. | 0.015 | 5.10 | 2.15 | 0.73 | 15.78 | 5.37 | 1.49 | 0.51 | 1.40 | 0.48 | 0.050 | 17.01 |
| 1587 | 300. | 0.014 | 4.67 | 2.02 | 0.67 | 15.72 | 5.24 | 1.23 | 0.41 | 1.35 | 0.45 | 0.041 | 13.67 |
| 1588 | 322. | 0.016 | 4.97 | 2.10 | 0.65 | 17.39 | 5.40 | 1.34 | 0.42 | 1.35 | 0.42 | 0.047 | 14.60 |
| 1589 | 354. | 0.015 | 4.24 | 2.02 | 0.57 | 17.58 | 4.97 | 1.21 | 0.34 | 1.30 | 0.37 | 0.046 | 12.99 |
| 1591 | 318. | 0.015 | 4.72 | 2.11 | 0.66 | 18.89 | 5.94 | 1.38 | 0.43 | 1.40 | 0.44 | 0.047 | 14.78 |
| 1593 | 342. | 0.023 | 6.72 | 2.04 | 0.60 | 17.20 | 5.03 | 1.98 | 0.58 | 2.18b | 0.64 | 0.046 | 13.45 |
| 1598 | 317. | 0.015 | 4.73 | 2.18 | 0.69 | 17.75 | 5.60 | 1.59 | 0.50 | 1.52 | 0.48 | 0.045 | 14.20 |
| 1600 | 354. | 0.012 | 3.39 | 2.18 | 0.62 | 18.06 | 5.10 | 1.25 | 0.35 | 1.45 | 0.41 | 0.059 | 16.67 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Rat 1593 had moderate dilation of the pelvis in the right kidney.

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TABLE E36 (PAGE 10): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | TERMINAL BODY WEIGHT | ADRENAL RIGHT | | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW a | ABS. WT. | REL. % TBW |
| 1541 | 296. | 0.043 | 14.53 | 0.50 | 0.17 | 0.20 | 0.07 | 0.037 | 12.50 | 0.049 | 16.55 | 0.56 | 0.19 |
| 1544 | 342. | 0.050 | 14.62 | 0.76 | 0.22 | 0.44 | 0.13 | 0.098 | 28.65 | 0.089 | 26.02 | 0.82 | 0.24 |
| 1545 | 298. | 0.054 | 18.12 | 0.64 | 0.21 | 0.23 | 0.08 | 0.038 | 12.75 | 0.068 | 22.82 | 0.39 | 0.13 |
| 1546 | 329. | 0.044 | 13.37 | 0.59 | 0.18 | 0.25 | 0.08 | 0.058 | 17.63 | 0.065 | 19.76 | 0.37 | 0.11 |
| 1548 | 306. | 0.049 | 16.01 | 0.80 | 0.26 | 0.21 | 0.07 | 0.062 | 20.26 | 0.049 | 16.01 | 0.82 | 0.27 |
| 1550 | 298. | 0.053 | 17.78 | 0.60 | 0.20 | 0.14 | 0.05 | 0.050 | 16.78 | 0.049 | 16.44 | 0.27 | 0.09 |
| 1552 | 319. | 0.039 | 12.22 | 0.57 | 0.18 | 0.11 | 0.03 | 0.058 | 18.18 | 0.055 | 17.24 | 0.94 | 0.29 |
| 1555 | 312. | 0.040 | 12.82 | 0.52 | 0.17 | 0.21 | 0.07 | 0.040 | 12.82 | 0.031 | 9.94 | 0.49 | 0.16 |
| 1557 | 319. | 0.034 | 10.66 | 0.48 | 0.15 | 0.12 | 0.04 | 0.044 | 13.79 | 0.043 | 13.48 | 0.36 | 0.11 |
| 1558 | 288. | 0.039 | 13.54 | 0.74 | 0.26 | 0.24 | 0.08 | 0.058 | 20.14 | 0.058 | 20.14 | 0.71 | 0.25 |
| 1560 | 325. | 0.043 | 13.23 | 0.65 | 0.20 | 0.29 | 0.09 | 0.038 | 11.69 | 0.068 | 20.92 | 0.82 | 0.25 |
| 1564 | 309. | 0.048 | 15.53 | 0.65 | 0.21 | 0.24 | 0.08 | 0.051 | 16.50 | 0.068 | 22.01 | 0.45 | 0.14 |
| 1565 | 275. | 0.044 | 16.00 | 0.64 | 0.23 | 0.26 | 0.09 | 0.064 | 23.27 | 0.054 | 19.64 | 0.67 | 0.24 |
| 1566 | 324. | 0.035 | 10.80 | 0.56 | 0.17 | 0.19 | 0.06 | 0.045 | 13.89 | 0.043 | 13.27 | 0.46b | 0.14 |
| 1568 | 339. | 0.034 | 10.03 | 0.56 | 0.16 | 0.19 | 0.06 | 0.046 | 13.57 | 0.052 | 15.34 | 0.42 | 0.12 |
| 1571 | 304. | 0.044 | 14.47 | 0.56 | 0.18 | 0.12 | 0.04 | 0.032 | 10.53 | 0.035 | 11.51 | 0.31 | 0.10 |
| 1573 | 336. | 0.030 | 8.93 | 0.47 | 0.14 | 0.20 | 0.06 | 0.043 | 12.80 | 0.042 | 12.50 | 0.39 | 0.12 |
| 1576 | 292. | 0.039 | 13.36 | 0.62 | 0.21 | 0.17 | 0.06 | 0.043 | 14.73 | 0.054 | 18.49 | 0.34 | 0.12 |
| 1578 | NOT PREGNANT | | | | | | | | | | | | |
| 1579 | 346. | 0.037 | 10.69 | 0.69 | 0.20 | 0.13 | 0.04 | 0.051 | 14.74 | 0.041 | 11.85 | 0.66 | 0.19 |
| 1583 | 303. | 0.036 | 11.88 | 0.48 | 0.16 | 0.16 | 0.05 | 0.068 | 22.44 | 0.040 | 13.20 | 0.38 | 0.12 |
| 1584 | 294. | 0.039 | 13.26 | 0.51 | 0.17 | 0.33 | 0.11 | 0.052 | 17.69 | 0.066 | 22.45 | 0.51 | 0.17 |
| 1586 | 294. | 0.040 | 13.60 | 0.50 | 0.17 | 0.12 | 0.04 | 0.043 | 14.62 | 0.035 | 11.90 | 0.45 | 0.15 |
| 1587 | 300. | 0.034 | 11.33 | 0.52 | 0.17 | 0.26 | 0.09 | 0.060 | 20.00 | 0.055 | 18.33 | 0.59 | 0.20 |
| 1588 | 322. | 0.046 | 14.28 | 0.58 | 0.18 | 0.37 | 0.11 | 0.043 | 13.35 | 0.045 | 13.98 | 0.83 | 0.26 |
| 1589 | 354. | 0.042 | 11.86 | 0.59 | 0.17 | 0.16 | 0.04 | 0.043 | 12.15 | 0.045 | 12.71 | 0.45 | 0.13 |
| 1591 | 318. | 0.043 | 13.52 | 0.64 | 0.20 | 0.22 | 0.07 | 0.049 | 15.41 | 0.041 | 12.89 | 0.56 | 0.18 |
| 1593 | 342. | 0.041 | 11.99 | 0.95 | 0.28 | 0.50 | 0.15 | 0.069 | 20.18 | 0.069 | 20.18 | 0.61 | 0.18 |
| 1598 | 317. | 0.037 | 11.67 | 0.51 | 0.16 | 0.20 | 0.06 | 0.065 | 20.50 | 0.051 | 16.09 | 0.60 | 0.19 |
| 1600 | 354. | 0.044 | 12.43 | 0.66 | 0.19 | 0.16 | 0.04 | 0.046 | 12.99 | 0.045 | 12.71 | 0.44 | 0.12 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) X 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

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TABLE E37 (PAGE 1): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP I 0 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | PITUITARY | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1302 | 2.10 | 0.022 | 1.05 | 14.52 | 691.43 | 1.30 | 61.90 | 1.38 | 65.71 | 0.027 | 1.28 | 0.028 | 1.33 |
| 1304 | 2.10 | 0.021 | 1.00 | 17.50 | 833.33 | 1.38 | 65.71 | 1.40 | 66.67 | 0.044 | 2.10 | 0.038 | 1.81 |
| 1306 | 2.05 | 0.017 | 0.83 | 17.30 | 843.90 | 1.45 | 70.73 | 1.55 | 75.61 | 0.050 | 2.44 | 0.037 | 1.80 |
| 1308 | 2.01 | 0.018 | 0.90 | 18.06 | 898.51 | 1.29 | 64.18 | 1.32 | 65.67 | 0.041 | 2.04 | 0.041 | 2.04 |
| 1310 | 1.99 | 0.014 | 0.70 | 18.04 | 906.53 | 1.30 | 65.33 | 1.33 | 66.83 | 0.040 | 2.01 | 0.047 | 2.36 |
| 1312 | 2.15 | 0.022 | 1.02 | 14.95 | 695.35 | 1.24 | 57.67 | 1.36 | 63.26 | 0.036 | 1.67 | 0.035 | 1.63 |
| 1313 | 2.14 | 0.020 | 0.93 | 15.73 | 735.05 | 1.26 | 58.88 | 1.28 | 59.81 | 0.036 | 1.68 | 0.030 | 1.40 |
| 1316 | NOT PREGNANT | | | | | | | | | | | | |
| 1318 | 2.06 | 0.017 | 0.82 | 17.38 | 843.69 | 1.53 | 74.27 | 1.43 | 69.42 | 0.039 | 1.89 | 0.036 | 1.75 |
| 1321 | 2.05 | 0.014 | 0.68 | 18.67 | 910.73 | 1.36 | 66.34 | 1.46 | 71.22 | 0.047 | 2.29 | 0.041 | 2.00 |
| 1325 | 2.00 | 0.009 | 0.45 | 17.15 | 857.50 | 1.35 | 67.50 | 1.39 | 69.50 | 0.044 | 2.20 | 0.035 | 1.75 |
| 1328 | 2.09 | 0.015 | 0.72 | 17.40 | 832.54 | 1.41 | 67.46 | 1.47 | 70.33 | 0.044 | 2.10 | 0.047 | 2.25 |
| 1330 | 2.00 | 0.018 | 0.90 | 12.61 | 630.50 | 1.22 | 61.00 | 1.17 | 58.50 | 0.047 | 2.35 | 0.040 | 2.00 |
| 1331 | 2.33 | 0.018 | 0.77 | 14.43 | 619.31 | 1.11 | 47.64 | 1.26 | 54.08 | 0.041 | 1.76 | 0.037 | 1.59 |
| 1334 | 1.96 | 0.016 | 0.82 | 15.10 | 770.41 | 1.26 | 64.28 | 1.22 | 62.24 | 0.036 | 1.84 | 0.031 | 1.58 |
| 1335 | 1.93 | 0.012 | 0.62 | 15.81 | 819.17 | 1.28 | 66.32 | 1.40 | 72.54 | 0.036 | 1.86 | 0.037 | 1.92 |
| 1336 | 2.06 | 0.016 | 0.78 | 17.19 | 834.47 | 1.42 | 68.93 | 1.46 | 70.87 | 0.046 | 2.23 | 0.043 | 2.09 |
| 1338 | 2.10 | 0.022 | 1.05 | 18.61 | 886.19 | 1.56 | 74.28 | 1.53 | 72.86 | 0.051 | 2.43 | 0.047 | 2.24 |
| 1340 | 2.07 | 0.015 | 0.72 | 16.97 | 819.81 | 1.60 | 77.29 | 1.65 | 79.71 | 0.043 | 2.08 | 0.041 | 1.98 |
| 1341 | 2.06 | 0.029 | 1.41 | 16.15 | 783.98 | 1.17 | 56.80 | 1.18 | 57.28 | 0.039 | 1.89 | 0.037 | 1.80 |
| 1342 | 1.93 | 0.023 | 1.19 | 14.09 | 730.05 | 1.22 | 63.21 | 1.25 | 64.77 | 0.039 | 2.02 | 0.036 | 1.86 |
| 1344 | 2.26 | 0.020 | 0.88 | 17.38 | 769.03 | 1.61 | 71.24 | 1.41 | 62.39 | 0.053 | 2.34 | 0.048 | 2.12 |
| 1345 | 2.03 | 0.014 | 0.69 | 17.73 | 873.40 | 1.28 | 63.05 | 1.32 | 65.02 | 0.047 | 2.32 | 0.041 | 2.02 |
| 1346 | 2.03 | 0.018 | 0.89 | 17.30 | 852.22 | 1.35 | 66.50 | 1.41 | 69.46 | 0.052 | 2.56 | 0.047 | 2.32 |
| 1348 | 2.05 | 0.015 | 0.73 | 18.89 | 921.46 | 1.46 | 71.22 | 1.57 | 76.58 | 0.055 | 2.68 | 0.052 | 2.54 |
| 1350 | 2.03 | 0.016 | 0.79 | 18.24 | 898.52 | 1.37 | 67.49 | 1.42 | 69.95 | 0.063 | 3.10 | 0.062 | 3.05 |
| 1353 | 2.22 | 0.024 | 1.08 | 15.33 | 690.54 | 1.54 | 69.37 | 1.31 | 59.01 | 0.038 | 1.71 | 0.035 | 1.58 |
| 1355 | 2.04 | 0.007 | 0.34 | 16.39 | 803.43 | 1.40 | 68.63 | 1.38 | 67.65 | 0.037 | 1.81 | 0.031 | 1.52 |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | |
| 1359 | 2.10 | 0.017 | 0.81 | 15.16 | 721.90 | 1.35 | 64.28 | 1.31 | 62.38 | 0.031 | 1.48 | 0.034 | 1.62 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 2): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP I — 0 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1302 | 2.10 | 0.63 | 30.00 | 0.13 | 6.19 | 0.054 | 2.57 | 0.068 | 3.24 | 0.48 | 22.86 |
| 1304 | 2.10 | 0.53 | 25.24 | 0.26 | 12.38 | 0.053 | 2.52 | 0.063 | 3.00 | 0.80 | 38.10 |
| 1306 | 2.05 | 0.59 | 28.78 | 0.21 | 10.24 | 0.045 | 2.20 | 0.057 | 2.78 | 0.65 | 31.71 |
| 1308 | 2.01 | 0.72 | 35.82 | 0.11 | 5.47 | 0.033 | 1.64 | 0.042 | 2.09 | 0.34 | 16.92 |
| 1310 | 1.99 | 0.66 | 33.16 | 0.18 | 9.04 | 0.045 | 2.26 | 0.049 | 2.46 | 0.70 | 35.18 |
| 1312 | 2.15 | 0.57 | 26.51 | 0.26 | 12.09 | 0.054 | 2.51 | 0.054 | 2.51 | 0.45 | 20.93 |
| 1313 | 2.14 | 0.62 | 28.97 | 0.30 | 14.02 | 0.043 | 2.01 | 0.050 | 2.34 | 0.58 | 27.10 |
| 1316 | NOT PREGNANT | | | | | | | | | | |
| 1318 | 2.06 | 0.64 | 31.07 | 0.24 | 11.65 | 0.055 | 2.67 | 0.054 | 2.62 | 0.49 | 23.79 |
| 1321 | 2.05 | 0.71 | 34.63 | 0.16 | 7.80 | 0.045 | 2.20 | 0.051 | 2.49 | 0.38 | 18.54 |
| 1325 | 2.00 | 0.57 | 28.50 | 0.23 | 11.50 | 0.037 | 1.85 | 0.032 | 1.60 | 0.78 | 39.00 |
| 1328 | 2.09 | 0.61 | 29.19 | 0.15 | 7.18 | 0.044 | 2.10 | 0.053 | 2.54 | 0.87 | 41.63 |
| 1330 | 2.00 | 0.56 | 28.00 | 0.16 | 8.00 | 0.040 | 2.00 | 0.046 | 2.30 | 0.33 | 16.50 |
| 1331 | 2.33 | 0.56 | 24.03 | 0.20 | 8.58 | 0.050 | 2.14 | 0.050 | 2.14 | 0.66 | 28.33 |
| 1334 | 1.96 | 0.52 | 26.53 | 0.22 | 11.22 | 0.029 | 1.48 | 0.033 | 1.68 | 0.40 | 20.41 |
| 1335 | 1.93 | 0.56 | 29.02 | 0.20 | 10.36 | 0.039 | 2.02 | 0.058 | 3.00 | 0.48 | 24.87 |
| 1336 | 2.06 | 0.47 | 22.82 | 0.10 | 4.85 | 0.047 | 2.28 | 0.055 | 2.67 | 0.39 | 18.93 |
| 1338 | 2.10 | 0.65 | 30.95 | 0.19 | 9.05 | 0.044 | 2.10 | 0.047 | 2.24 | 0.30a | 14.28 |
| 1340 | 2.07 | 0.76 | 36.71 | 0.30 | 14.49 | 0.070 | 3.38 | 0.092 | 4.44 | 0.79 | 38.16 |
| 1341 | 2.06 | 0.55 | 26.70 | 0.31 | 15.05 | 0.057 | 2.77 | 0.064 | 3.11 | 0.51 | 24.76 |
| 1342 | 1.93 | 0.60 | 31.09 | 0.20 | 10.36 | 0.058 | 3.00 | 0.034 | 1.76 | 0.53 | 27.46 |
| 1344 | 2.26 | 0.64 | 28.32 | 0.20 | 8.85 | 0.068 | 3.01 | 0.042 | 1.86 | 0.70 | 30.97 |
| 1345 | 2.03 | 0.65 | 32.02 | 0.13 | 6.40 | 0.049 | 2.41 | 0.055 | 2.71 | 0.32a | 15.76 |
| 1346 | 2.03 | 0.52 | 25.62 | 0.20 | 9.85 | 0.085 | 4.19 | 0.061 | 3.00 | 0.42 | 20.69 |
| 1348 | 2.05 | 0.57 | 27.80 | 0.18 | 8.78 | 0.063 | 3.07 | 0.062 | 3.02 | 0.60 | 29.27 |
| 1350 | 2.03 | 0.66 | 32.51 | 0.15 | 7.39 | 0.052 | 2.56 | 0.060 | 2.96 | 0.43 | 21.18 |
| 1353 | 2.22 | 0.52 | 23.42 | 0.26 | 11.71 | 0.061 | 2.75 | 0.075 | 3.38 | 0.52 | 23.42 |
| 1355 | 2.04 | 0.43 | 21.08 | 0.12 | 5.88 | 0.045 | 2.20 | 0.050 | 2.45 | 0.42 | 20.59 |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | |
| 1359 | 2.10 | 0.64 | 30.48 | 0.25 | 11.90 | 0.046 | 2.19 | 0.053 | 2.52 | 0.74 | 35.24 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 3): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP II — 1 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | PITUITARY | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1362 | 2.09 | 0.015 | 0.72 | 14.91 | 713.40 | 1.29 | 61.72 | 1.28 | 61.24 | 0.041 | 1.96 | 0.038 | 1.82 |
| 1363 | 2.13 | 0.017 | 0.80 | 15.01 | 704.69 | 1.42 | 66.67 | 1.38 | 64.79 | 0.045 | 2.11 | 0.049 | 2.30 |
| 1364 | 2.10 | 0.019 | 0.90 | 17.48 | 832.38 | 1.39 | 66.19 | 1.40 | 66.67 | 0.042 | 2.00 | 0.039 | 1.86 |
| 1367 | 1.98 | 0.016 | 0.81 | 13.92 | 703.03 | 1.35 | 68.18 | 1.33 | 67.17 | 0.044 | 2.22 | 0.041 | 2.07 |
| 1368 | 1.95 | 0.014 | 0.72 | 15.62 | 801.02 | 1.45 | 74.36 | 1.44 | 73.85 | 0.053 | 2.72 | 0.047 | 2.41 |
| 1371 | 2.34 | 0.013 | 0.56 | 19.98 | 853.85 | 1.58 | 67.52 | 1.64 | 70.08 | 0.054 | 2.31 | 0.046 | 1.96 |
| 1375 | 2.00 | 0.017 | 0.85 | 14.17 | 708.50 | 1.25 | 62.50 | 1.32 | 66.00 | 0.048 | 2.40 | 0.043 | 2.15 |
| 1376 | 2.05 | 0.014 | 0.68 | 16.89 | 823.90 | 1.67 | 81.46 | 1.62 | 79.02 | 0.044 | 2.15 | 0.042 | 2.05 |
| 1378 | NOT PREGNANT | | | | | | | | | | | | |
| 1379 | 2.32 | 0.021 | 0.90 | 14.44 | 622.41 | 1.49 | 64.22 | 1.48 | 63.79 | 0.056 | 2.41 | 0.053 | 2.28 |
| 1381 | 2.13 | 0.016 | 0.75 | 13.26 | 622.54 | 1.52 | 71.36 | 1.51 | 70.89 | 0.038 | 1.78 | 0.036 | 1.69 |
| 1382 | 2.06 | 0.017 | 0.82 | 15.82 | 767.96 | 1.37 | 66.50 | 1.29 | 62.62 | 0.058 | 2.82 | 0.052 | 2.52 |
| 1383 | 1.97 | 0.023 | 1.17 | 17.23 | 874.62 | 1.52 | 77.16 | 1.51 | 76.65 | 0.041 | 2.08 | 0.031 | 1.57 |
| 1384 | 1.94 | 0.014 | 0.72 | 12.14 | 625.77 | 1.08 | 55.67 | 1.15 | 59.28 | 0.032 | 1.65 | 0.028 | 1.44 |
| 1387 | 2.06 | 0.012 | 0.58 | 17.48 | 848.54 | 1.26 | 61.16 | 1.43 | 69.42 | 0.046 | 2.23 | 0.042 | 2.04 |
| 1389 | 2.04 | 0.017 | 0.83 | 16.17 | 792.65 | 1.33 | 65.20 | 1.29 | 63.24 | 0.041 | 2.01 | 0.047 | 2.30 |
| 1392 | 2.23 | 0.021 | 0.94 | 18.85 | 845.29 | 1.62 | 72.64 | 1.59 | 71.30 | 0.048 | 2.15 | 0.041 | 1.84 |
| 1393 | 2.02 | 0.013 | 0.64 | 16.60 | 821.78 | 1.25 | 61.88 | 1.29 | 63.86 | 0.041 | 2.03 | 0.041 | 2.03 |
| 1397 | 2.10 | 0.018 | 0.86 | 17.41 | 829.05 | 1.49 | 70.95 | 1.57 | 74.76 | 0.046 | 2.19 | 0.043 | 2.05 |
| 1399 | 2.26 | 0.013 | 0.58 | 16.58 | 733.63 | 1.38 | 61.06 | 1.38 | 61.06 | 0.032 | 1.42 | 0.031 | 1.37 |
| 1401 | 1.95 | 0.014 | 0.72 | 13.63 | 698.97 | 1.28 | 65.64 | 1.19 | 61.02 | 0.034 | 1.74 | 0.033 | 1.69 |
| 1404 | 2.03 | 0.017 | 0.84 | 15.01 | 739.41 | 1.16 | 57.14 | 1.22 | 60.10 | 0.047 | 2.32 | 0.039 | 1.92 |
| 1407 | 2.07 | 0.015 | 0.72 | 15.09 | 728.98 | 1.40 | 67.63 | 1.36 | 65.70 | 0.040 | 1.93 | 0.039 | 1.88 |
| 1409 | 2.06 | 0.015 | 0.73 | 15.90 | 771.84 | 1.22 | 59.22 | 1.28 | 62.14 | 0.031 | 1.50 | 0.028 | 1.36 |
| 1410 | 2.05 | 0.019 | 0.93 | 18.06 | 880.98 | 1.45 | 70.73 | 1.51 | 73.66 | 0.044 | 2.15 | 0.035 | 1.71 |
| 1413 | 2.29 | 0.015 | 0.66 | 16.36 | 714.41 | 1.46 | 63.76 | 1.55 | 67.68 | 0.043 | 1.88 | 0.054 | 2.36 |
| 1415 | 1.92 | 0.011 | 0.57 | 17.79 | 926.56 | 1.51 | 78.64 | 1.52 | 79.17 | 0.046 | 2.40 | 0.052 | 2.71 |
| 1416 | 2.23 | 0.018 | 0.81 | 15.44 | 692.38 | 1.48 | 66.37 | 1.55 | 69.51 | 0.044 | 1.97 | 0.041 | 1.84 |
| 1418 | 2.15 | 0.013 | 0.60 | 15.71 | 730.70 | 1.22 | 56.74 | 1.32 | 61.40 | 0.040 | 1.86 | 0.035 | 1.63 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 4): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP II — 1 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % BRW | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % BRW | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1362 | 2.09 | 0.73 | 34.93 | 0.20 | 9.57 | 0.062 | 2.97 | 0.064 | 3.06 | 0.80 | 38.28 |
| 1363 | 2.13 | 0.50 | 23.47 | 0.17 | 7.98 | 0.055 | 2.58 | 0.076 | 3.57 | 0.68 | 31.92 |
| 1364 | 2.10 | 0.47 | 22.38 | 0.07 | 3.33 | 0.055 | 2.62 | 0.061 | 2.90 | 0.46 | 21.90 |
| 1367 | 1.98 | 0.50 | 25.25 | 0.11 | 5.56 | 0.054 | 2.73 | 0.058 | 2.93 | 0.62 | 31.31 |
| 1368 | 1.95 | 0.53 | 27.18 | 0.20 | 10.26 | 0.054 | 2.77 | 0.054 | 2.77 | 0.50 | 25.64 |
| 1371 | 2.34 | 0.56 | 23.93 | 0.21 | 8.97 | 0.087 | 3.72 | 0.032 | 1.37 | 0.55 | 23.50 |
| 1375 | 2.00 | 0.64 | 32.00 | 0.19 | 9.50 | 0.050 | 2.50 | 0.040 | 2.00 | 0.67 | 33.50 |
| 1376 | 2.05 | 0.58 | 28.29 | 0.24 | 11.71 | 0.046 | 2.24 | 0.056 | 2.73 | 0.38 | 18.54 |
| 1378 | NOT PREGNANT | | | | | | | | | | |
| 1379 | 2.32 | 0.60 | 25.86 | 0.17 | 7.33 | 0.054 | 2.33 | 0.068 | 2.93 | 0.69 | 29.74 |
| 1381 | 2.13 | 0.50 | 23.47 | 0.27 | 12.68 | 0.055 | 2.58 | 0.076 | 3.57 | 0.63 | 29.58 |
| 1382 | 2.06 | 0.83 | 40.29 | 0.16 | 7.77 | 0.043 | 2.09 | 0.046 | 2.23 | 0.53 | 25.73 |
| 1383 | 1.97 | 0.59 | 29.95 | 0.24 | 12.18 | 0.059 | 2.99 | 0.066 | 3.35 | 0.57 | 28.93 |
| 1384 | 1.94 | 0.57 | 29.38 | 0.12 | 6.18 | 0.051 | 2.63 | 0.060 | 3.09 | 0.83 | 42.78 |
| 1387 | 2.06 | 0.59 | 28.64 | 0.20 | 9.71 | 0.056 | 2.72 | 0.056 | 2.72 | 0.55 | 26.70 |
| 1389 | 2.04 | 0.68 | 33.33 | 0.14 | 6.86 | 0.047 | 2.30 | 0.058 | 2.84 | 0.74 | 36.27 |
| 1392 | 2.23 | 0.61 | 27.35 | 0.12 | 5.38 | 0.047 | 2.11 | 0.056 | 2.51 | 0.38 | 17.04 |
| 1393 | 2.02 | 0.57 | 28.22 | 0.23 | 11.39 | 0.054 | 2.67 | 0.035 | 1.73 | 0.37 | 18.32 |
| 1397 | 2.10 | 0.63 | 30.00 | 0.21 | 10.00 | 0.053 | 2.52 | 0.060 | 2.86 | 0.46 | 21.90 |
| 1399 | 2.26 | 0.63 | 27.88 | 0.18 | 7.96 | 0.058 | 2.57 | 0.053 | 2.34 | 0.47 | 20.80 |
| 1401 | 1.95 | 0.67 | 34.36 | 0.21 | 10.77 | 0.042 | 2.15 | 0.045 | 2.31 | 0.57 | 29.23 |
| 1404 | 2.03 | 0.48 | 23.64 | 0.28 | 13.79 | 0.085 | 4.19 | 0.061 | 3.00 | 0.42a | 20.69 |
| 1407 | 2.07 | 0.65 | 31.40 | 0.20 | 9.66 | 0.044 | 2.12 | 0.036 | 1.74 | 0.40 | 19.32 |
| 1409 | 2.06 | 0.41 | 19.90 | 0.20 | 9.71 | 0.045 | 2.18 | 0.041 | 1.99 | 0.34 | 16.50 |
| 1410 | 2.05 | 0.58 | 28.29 | 0.20 | 9.76 | 0.054 | 2.63 | 0.051 | 2.49 | 0.60 | 29.27 |
| 1413 | 2.29 | 1.03 | 44.98 | 0.17 | 7.42 | 0.078 | 3.41 | 0.048 | 2.10 | 1.00 | 43.67 |
| 1415 | 1.92 | 0.72 | 37.50 | 0.32 | 16.67 | 0.040 | 2.08 | 0.038 | 1.98 | 0.69 | 35.94 |
| 1416 | 2.23 | 0.59 | 26.46 | 0.14 | 6.28 | 0.044 | 1.97 | 0.038 | 1.70 | 0.43 | 19.28 |
| 1418 | 2.15 | 0.57 | 26.51 | 0.14 | 6.51 | 0.040 | 1.86 | 0.062 | 2.88 | 0.46 | 21.40 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 5): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP III 3 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | PITUITARY | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1421 | 1.96 | 0.009 | 0.46 | 16.89 | 861.73 | 1.44 | 73.47 | 1.40 | 71.43 | 0.049 | 2.50 | 0.043 | 2.19 |
| 1424 | 2.05 | 0.013 | 0.63 | 16.43 | 801.46 | 1.42 | 69.27 | 1.36 | 66.34 | 0.048 | 2.34 | 0.046 | 2.24 |
| 1426 | 2.12 | 0.019 | 0.90 | 18.04 | 850.94 | 1.37 | 64.62 | 1.40 | 66.04 | 0.051 | 2.40 | 0.046 | 2.17 |
| 1428 | 2.18 | 0.016 | 0.73 | 16.19 | 742.66 | 1.50a | 68.81 | 1.54a | 70.64 | 0.046 | 2.11 | 0.047 | 2.16 |
| 1430 | 1.85 | 0.017 | 0.92 | 15.49 | 837.30 | 15.30b | 827.03b | 1.63 | 88.11 | 0.048 | 2.59 | 0.042 | 2.27 |
| 1431 | 2.02 | 0.015 | 0.74 | 19.48 | 964.36 | 1.49 | 73.76 | 1.63 | 80.69 | 0.042 | 2.08 | 0.043 | 2.13 |
| 1433 | 1.95 | 0.014 | 0.72 | 16.49 | 845.64 | 1.36 | 69.74 | 1.42 | 72.82 | 0.041 | 2.10 | 0.050 | 2.56 |
| 1436 | 2.20 | 0.018 | 0.82 | 15.80 | 718.18 | 1.28 | 58.18 | 1.30 | 59.09 | 0.041 | 1.86 | 0.039 | 1.77 |
| 1437 | 2.18 | 0.015 | 0.69 | 17.76 | 814.68 | 1.41 | 64.68 | 1.47 | 67.43 | 0.044 | 2.02 | 0.039 | 1.79 |
| 1439 | 2.01 | 0.017 | 0.84 | 16.30 | 810.94 | 1.48 | 73.63 | 1.43 | 71.14 | 0.048 | 2.39 | 0.044 | 2.19 |
| 1442 | 2.05 | 0.016 | 0.78 | 15.42 | 752.20 | 1.35 | 65.85 | 1.38 | 67.32 | 0.046 | 2.24 | 0.042 | 2.05 |
| 1443 | 2.07 | 0.018 | 0.87 | 14.80 | 714.98 | 1.28 | 61.84 | 1.33 | 64.25 | 0.053 | 2.56 | 0.052 | 2.51 |
| 1446 | NOT PREGNANT | | | | | | | | | | | | |
| 1448 | 2.23 | 0.015 | 0.67 | 17.20 | 771.30 | 1.45 | 65.02 | 1.50 | 67.26 | 0.040 | 1.79 | 0.037 | 1.66 |
| 1450 | 2.13 | 0.015 | 0.70 | 18.62 | 874.18 | 1.29 | 60.56 | 1.36 | 63.85 | 0.041 | 1.92 | 0.039 | 1.83 |
| 1452 | 1.96 | 0.016 | 0.82 | 15.77 | 804.59 | 1.34 | 68.37 | 1.38 | 70.41 | 0.043 | 2.19 | 0.037 | 1.89 |
| 1455 | 2.27 | 0.012 | 0.53 | 18.40 | 810.57 | 1.51 | 66.52 | 1.44 | 63.44 | 0.041 | 1.81 | 0.028 | 1.23 |
| 1456 | 2.13 | 0.017 | 0.80 | 16.01 | 751.64 | 1.54 | 72.30 | 1.55 | 72.77 | 0.032 | 1.50 | 0.042 | 1.97 |
| 1458 | NOT PREGNANT | | | | | | | | | | | | |
| 1459 | 2.04 | 0.018 | 0.88 | 17.41 | 853.43 | 1.45 | 71.08 | 1.48 | 72.55 | 0.043 | 2.11 | 0.036 | 1.76 |
| 1461 | 2.00 | 0.017 | 0.85 | 13.89 | 694.50 | 1.29 | 64.50 | 1.32 | 66.00 | 0.037 | 1.85 | 0.033 | 1.65 |
| 1463 | 2.07 | 0.016 | 0.77 | 14.98 | 723.67 | 1.34 | 64.73 | 1.32 | 63.77 | 0.043 | 2.08 | 0.041 | 1.98 |
| 1465 | 1.99 | 0.006 | 0.30 | 15.23 | 765.33 | 1.38 | 69.35 | 1.25 | 62.81 | 0.041 | 2.06 | 0.036 | 1.81 |
| 1468 | 2.02 | 0.015 | 0.74 | 14.72 | 728.71 | 1.45 | 71.78 | 1.45 | 71.78 | 0.046 | 2.28 | 0.033 | 1.63 |
| 1469 | 2.17 | 0.016 | 0.74 | 15.62 | 719.82 | 1.24 | 57.14 | 1.26 | 58.06 | 0.051 | 2.35 | 0.039 | 1.80 |
| 1472 | 2.08 | 0.013 | 0.62 | 15.33 | 737.02 | 1.62 | 77.88 | 1.32 | 63.46 | 0.036 | 1.73 | 0.043 | 2.07 |
| 1474 | 2.10 | 0.014 | 0.67 | 14.41 | 686.19 | 1.31 | 62.38 | 1.37 | 65.24 | 0.050 | 2.38 | 0.042 | 2.00 |
| 1476 | 1.96 | 0.013 | 0.66 | 17.55 | 895.41 | 1.50 | 76.53 | 1.48 | 75.51 | 0.033 | 1.68 | 0.038 | 1.94 |
| 1477 | 2.25 | 0.021 | 0.93 | 17.98 | 799.11 | 1.48 | 65.78 | 1.50 | 66.67 | 0.055 | 2.44 | 0.053 | 2.36 |
| 1480 | 2.13 | 0.018 | 0.84 | 17.23 | 808.92 | 1.43 | 67.14 | 1.44 | 67.60 | 0.058 | 2.72 | 0.048 | 2.25 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

a. Rat 1428 had slight dilation of the pelvis in both kidneys.

b. Value appeared incorrectly recorded; values excluded from group averages and statistical analyses.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 6): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | SPLEEN ABS. WT. | SPLEEN REL. % BRW | THYMUS ABS. WT. | THYMUS REL. % BRW | OVARY LEFT ABS. WT. | OVARY LEFT REL. % BRW | OVARY RIGHT ABS. WT. | OVARY RIGHT REL. % BRW | UTERUS NON-GRAVID ABS. WT. | UTERUS NON-GRAVID REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1421 | 1.96 | 0.58 | 29.59 | 0.23 | 11.73 | 0.034 | 1.73 | 0.035 | 1.78 | 0.34 | 17.35 |
| 1424 | 2.05 | 0.64 | 31.22 | 0.20 | 9.76 | 0.057 | 2.78 | 0.031 | 1.51 | 0.64 | 31.22 |
| 1426 | 2.12 | 0.61 | 28.77 | 0.21 | 9.90 | 0.047 | 2.22 | 0.053 | 2.50 | 0.49 | 23.11 |
| 1428 | 2.18 | 0.62 | 28.44 | 0.14 | 6.42 | 0.059 | 2.71 | 0.055 | 2.52 | 0.47 | 21.56 |
| 1430 | 1.85 | 0.58 | 31.35 | 0.20 | 10.81 | 0.056 | 3.03 | 0.064 | 3.46 | 0.62 | 33.51 |
| 1431 | 2.02 | 0.71 | 35.15 | 0.29 | 14.36 | 0.075 | 3.71 | 0.056 | 2.77 | 0,59 | 29.21 |
| 1433 | 1.95 | 0.55 | 28.20 | 0.28 | 14.36 | 0.055 | 2.82 | 0.043 | 2.20 | 1.18 | 60.51 |
| 1436 | 2.20 | 0.64 | 29.09 | 0.26 | 11.82 | 0.068 | 3.09 | 0.034 | 1.54 | 0.83 | 37.73 |
| 1437 | 2.18 | 0.58 | 26.60 | 0.07 | 3.21 | 0.037 | 1.70 | 0.044 | 2.02 | 0.46 | 21.10 |
| 1439 | 2.01 | 0.52 | 25.87 | 0.23 | 11.44 | 0.042 | 2.09 | 0.056 | 2.79 | 0.37 | 18.41 |
| 1442 | 2.05 | 0.73 | 35.61 | 0.11 | 5.36 | 0.062 | 3.02 | 0.057 | 2.78 | 0.51 | 24.88 |
| 1443 | 2.07 | 0.60 | 28.98 | 0.22 | 10.63 | 0.045 | 2.17 | 0.041 | 1.98 | 0.54 | 26.09 |
| 1446 | NOT PREGNANT | | | | | | | | | | |
| 1448 | 2.23 | 0.70 | 31.39 | 0.20 | 8.97 | 0.042 | 1.88 | 0.045 | 2.02 | 0.50a | 22.42 |
| 1450 | 2.13 | 0.58 | 27.23 | 0.21 | 9.86 | 0.033 | 1.55 | 0.044 | 2.06 | 0.42 | 19.72 |
| 1452 | 1.96 | 0.62 | 31.63 | 0.23 | 11.73 | 0.047 | 2.40 | 0.043 | 2.19 | 0.45 | 22.96 |
| 1455 | 2.27 | 0.67 | 29.52 | 0.35 | 15.42 | 0.069 | 3.04 | 0.062 | 2.73 | 0.75 | 33.04 |
| 1456 | 2.13 | 0.70 | 32.86 | 0.29 | 13.62 | 0.052 | 2.44 | 0.068 | 3.19 | 0.67 | 31.46 |
| 1458 | NOT PREGNANT | | | | | | | | | | |
| 1459 | 2.04 | 0.57 | 27.94 | 0.12 | 5.88 | 0.038 | 1.86 | 0.045 | 2.20 | 0.28 | 13.72 |
| 1461 | 2.00 | 0.55 | 27.50 | 0.18 | 9.00 | 0.038 | 1.90 | 0.035 | 1.75 | 0.56 | 28.00 |
| 1463 | 2.07 | 0.57 | 27.54 | 0.18 | 8.70 | 0.046 | 2.22 | 0.046 | 2.22 | 0.60 | 28.98 |
| 1465 | 1.99 | 0.51 | 25.63 | 0.22 | 11.06 | 0.056 | 2.81 | 0.056 | 2.81 | 0.49 | 24.62 |
| 1468 | 2.02 | 0.55 | 27.23 | 0.18 | 8.91 | 0.071 | 3.51 | 0.057 | 2.82 | 0.58 | 28.71 |
| 1469 | 2.17 | 0.56 | 25.81 | 0.17 | 7.83 | 0.054 | 2.49 | 0.056 | 2.58 | 0.51 | 23.50 |
| 1472 | 2.08 | 0.61 | 29.33 | 0.40 | 19.23 | 0.064 | 3.08 | 0.062 | 2.98 | 0.83 | 39.90 |
| 1474 | 2.10 | 0.62 | 29.52 | 0.24 | 11.43 | 0.043 | 2.05 | 0.037 | 1.76 | 0.72 | 34.28 |
| 1476 | 1.96 | 0.51 | 26.02 | 0.19 | 9.69 | 0.050 | 2.55 | 0.059 | 3.01 | 0.56 | 28.57 |
| 1477 | 2.25 | 0.63 | 28.00 | 0.10 | 4.44 | 0.040 | 1.78 | 0.039 | 1.73 | 0.50 | 22.22 |
| 1480 | 2.13 | 0.60 | 28.17 | 0.23 | 10.80 | 0.051 | 2.39 | 0.051 | 2.39 | 0.54 | 25.35 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 7): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | PITUITARY | | LIVER | | KIDNEY LEFT | | KIDNEY RIGHT | | ADRENAL LEFT | | ADRENAL RIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1482 | 2.23 | 0.015 | 0.67 | 15.34 | 687.89 | 1.26 | 56.50 | 1.25 | 56.05 | 0.045 | 2.02 | 0.035 | 1.57 |
| 1483 | NOT PREGNANT | | | | | | | | | | | | |
| 1486 | 1.90 | 0.017 | 0.89 | 18.55 | 976.32 | 1.37 | 72.10 | 1.31 | 68.95 | 0.054 | 2.84 | 0.047 | 2.47 |
| 1488 | 2.06 | 0.013 | 0.63 | 17.62 | 855.34 | 1.33 | 64.56 | 1.41 | 68.45 | 0.042 | 2.04 | 0.043 | 2.09 |
| 1490 | 2.12 | 0.015 | 0.71 | 20.37 | 960.85 | 1.65 | 77.83 | 1.56 | 73.58 | 0.052 | 2.45 | 0.045 | 2.12 |
| 1491 | 2.05 | 0.014 | 0.68 | 16.20 | 790.24 | 1.24 | 60.49 | 1.28 | 62.44 | 0.044 | 2.15 | 0.040 | 1.95 |
| 1494 | 2.12 | 0.016 | 0.75 | 16.00 | 754.72 | 1.52 | 71.70 | 1.49 | 70.28 | 0.042 | 1.98 | 0.042 | 1.98 |
| 1496 | 1.76 | 0.015 | 0.85 | 16.62 | 944.32 | 1.33 | 75.57 | 1.28 | 72.73 | 0.047 | 2.67 | 0.047 | 2.67 |
| 1497 | 2.23 | 0.016 | 0.72 | 15.83 | 709.86 | 1.50 | 67.26 | 1.48 | 66.37 | 0.044 | 1.97 | 0.040 | 1.79 |
| 1500 | 1.97 | 0.018 | 0.91 | 16.39 | 831.98 | 1.48 | 75.13 | 1.49 | 75.63 | 0.042 | 2.13 | 0.041 | 2.08 |
| 1502 | 2.05 | 0.014 | 0.68 | 14.76 | 720.00 | 1.18 | 57.56 | 1.22 | 59.51 | 0.041 | 2.00 | 0.042 | 2.05 |
| 1505 | 2.05 | 0.015 | 0.73 | 16.77 | 818.05 | 1.51 | 73.66 | 1.68 | 81.95 | 0.046 | 2.24 | 0.040 | 1.95 |
| 1507 | 2.21 | 0.015 | 0.68 | 18.65 | 843.89 | 1.46 | 66.06 | 1.51 | 68.32 | 0.051 | 2.31 | 0.050 | 2.26 |
| 1508 | 2.20 | 0.013 | 0.59 | 16.98 | 771.82 | 1.39 | 63.18 | 1.46 | 66.36 | 0.041 | 1.86 | 0.042 | 1.91 |
| 1511 | NOT PREGNANT | | | | | | | | | | | | |
| 1513 | 2.24 | 0.017 | 0.76 | 13.67 | 610.27 | 1.28 | 57.14 | 1.30 | 58.04 | 0.043 | 1.92 | 0.044 | 1.96 |
| 1514 | 2.19 | 0.016 | 0.73 | 15.60 | 712.33 | 1.32 | 60.27 | 1.38 | 63.01 | 0.053 | 2.42 | 0.043 | 1.96 |
| 1516 | 2.15 | 0.014 | 0.65 | 15.89 | 739.07 | 1.28 | 59.53 | 1.27 | 59.07 | 0.036 | 1.67 | 0.033 | 1.53 |
| 1517 | 2.03 | 0.013 | 0.64 | 17.35 | 854.68 | 1.13 | 55.66 | 1.13 | 55.66 | 0.043 | 2.12 | 0.041 | 2.02 |
| 1519 | 2.08 | 0.017 | 0.82 | 17.52 | 842.31 | 1.45 | 69.71 | 1.56 | 75.00 | 0.047 | 2.26 | 0.041 | 1.97 |
| 1521 | 2.18 | 0.016 | 0.73 | 15.27 | 700.46 | 1.35 | 61.93 | 1.42 | 65.14 | 0.046 | 2.11 | 0.045 | 2.06 |
| 1523 | 2.02 | 0.011 | 0.54 | 15.78 | 781.19 | 1.32 | 65.35 | 1.38 | 68.32 | 0.041 | 2.03 | 0.040 | 1.98 |
| 1524 | 1.98 | 0.010 | 0.50 | 13.46 | 679.80 | 1.24 | 62.63 | 1.21 | 61.11 | 0.030 | 1.52 | 0.026 | 1.31 |
| 1527 | 2.14 | 0.023 | 1.07 | 18.04 | 842.99 | 1.35 | 63.08 | 1.42 | 66.36 | 0.051 | 2.38 | 0.042 | 1.96 |
| 1528 | 2.11 | 0.015 | 0.71 | 15.96 | 756.40 | 1.46 | 69.19 | 1.53 | 72.51 | 0.044 | 2.08 | 0.035 | 1.66 |
| 1531 | 2.15 | 0.014 | 0.65 | 18.68 | 868.84 | 1.49 | 69.30 | 1.58 | 73.49 | 0.054 | 2.51 | 0.049 | 2.28 |
| 1533 | 2.11 | 0.017 | 0.80 | 19.96 | 945.97 | 1.56 | 73.93 | 1.61 | 76.30 | 0.053 | 2.51 | 0.041 | 1.94 |
| 1534 | 2.20 | 0.015 | 0.68 | 16.16 | 734.54 | 1.38 | 62.73 | 1.37 | 62.27 | 0.041 | 1.86 | 0.031 | 1.41 |
| 1537 | 1.93 | 0.015 | 0.78 | 15.08 | 781.35 | 1.21 | 62.69 | 1.25 | 64.77 | 0.046 | 2.38 | 0.051 | 2.64 |
| 1539 | 2.22 | 0.017 | 0.76 | 18.63 | 839.19 | 1.69 | 76.13 | 1.81 | 81.53 | 0.056 | 2.52 | 0.052 | 2.34 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 8): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP IV 10 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1482 | 2.23 | 0.53 | 23.77 | 0.29 | 13.00 | 0.046 | 2.06 | 0.044 | 1.97 | 0.68 | 30.49 |
| 1483 | NOT PREGNANT | | | | | | | | | | |
| 1486 | 1.90 | 0.58 | 30.53 | 0.11 | 5.79 | 0.065 | 3.42 | 0.049 | 2.58 | 0.57 | 30.00 |
| 1488 | 2.06 | 0.61 | 29.61 | 0.33 | 16.02 | 0.041 | 1.99 | 0.033 | 1.60 | 0.44 | 21.36 |
| 1490 | 2.12 | 0.66 | 31.13 | 0.26 | 12.26 | 0.076 | 3.58 | 0.068 | 3.21 | 0.53 | 25.00 |
| 1491 | 2.05 | 0.56 | 27.32 | 0.10 | 4.88 | 0.031 | 1.51 | 0.049 | 2.39 | 0.67 | 32.68 |
| 1494 | 2.12 | 0.46 | 21.70 | 0.12 | 5.66 | 0.039 | 1.84 | 0.059 | 2.78 | 0.60 | 28.30 |
| 1496 | 1.76 | 0.57 | 32.39 | 0.15 | 8.52 | 0.045 | 2.56 | 0.063 | 3.58 | 0.56 | 31.82 |
| 1497 | 2.23 | 0.68 | 30.49 | 0.26 | 11.66 | 0.065 | 2.91 | 0.070 | 3.14 | 0.84 | 37.67 |
| 1500 | 1.97 | 0.48 | 24.36 | 0.24 | 12.18 | 0.046 | 2.34 | 0.054 | 2.74 | 0.69 | 35.02 |
| 1502 | 2.05 | 0.48 | 23.41 | 0.13 | 6.34 | 0.063 | 3.07 | 0.066 | 3.22 | 0.42 | 20.49 |
| 1505 | 2.05 | 0.70 | 34.15 | 0.23 | 11.22 | 0.048 | 2.34 | 0.045 | 2.20 | 0.41 | 20.00 |
| 1507 | 2.21 | 0.54 | 24.43 | 0.21 | 9.50 | 0.040 | 1.81 | 0.056 | 2.53 | 0.42 | 19.00 |
| 1508 | 2.20 | 0.64 | 29.09 | 0.13 | 5.91 | 0.048 | 2.18 | 0.044 | 2.00 | 0.74 | 33.64 |
| 1511 | NOT PREGNANT | | | | | | | | | | |
| 1513 | 2.24 | 0.51 | 22.77 | 0.10 | 4.46 | 0.048 | 2.14 | 0.048 | 2.14 | 0.62 | 27.68 |
| 1514 | 2.19 | 0.67 | 30.59 | 0.16 | 7.30 | 0.042 | 1.92 | 0.046 | 2.10 | 0.50 | 22.83 |
| 1516 | 2.15 | 0.55 | 25.58 | 0.18 | 8.37 | 0.064 | 2.98 | 0.045 | 2.09 | 0.54 | 25.12 |
| 1517 | 2.03 | 0.58 | 28.57 | 0.10 | 4.93 | 0.041 | 2.02 | 0.051 | 2.51 | 0.65 | 32.02 |
| 1519 | 2.08 | 0.52 | 25.00 | 0.17 | 8.17 | 0.044 | 2.12 | 0.056 | 2.69 | 0.51 | 24.52 |
| 1521 | 2.18 | 0.60 | 27.52 | 0.08 | 3.67 | 0.045 | 2.06 | 0.040 | 1.83 | 0.49 | 22.48 |
| 1523 | 2.02 | 0.54 | 26.73 | 0.35 | 17.33 | 0.051 | 2.52 | 0.039 | 1.93 | 0.84 | 41.58 |
| 1524 | 1.98 | 0.74 | 37.37 | 0.38 | 19.19 | 0.050 | 2.52 | 0.057 | 2.88 | 0.47 | 23.74 |
| 1527 | 2.14 | 0.82 | 38.32 | 0.23 | 10.75 | 0.056 | 2.62 | 0.035 | 1.64 | 0.68 | 31.78 |
| 1528 | 2.11 | 0.67 | 31.75 | 0.26 | 12.32 | 0.037 | 1.75 | 0.052 | 2.46 | 0.43 | 20.38 |
| 1531 | 2.15 | 0.67 | 31.16 | 0.30 | 13.95 | 0.042 | 1.95 | 0.049 | 2.28 | 0.53 | 24.65 |
| 1533 | 2.11 | 0.66 | 31.28 | 0.20 | 9.48 | 0.045 | 2.13 | 0.053 | 2.51 | 0.52 | 24.64 |
| 1534 | 2.20 | 0.50 | 22.73 | 0.17 | 7.73 | 0.060 | 2.73 | 0.035 | 1.59 | 0.42 | 19.09 |
| 1537 | 1.93 | 0.51 | 26.42 | 0.15 | 7.77 | 0.044 | 2.28 | 0.043 | 2.23 | 0.49 | 25.39 |
| 1539 | 2.22 | 0.57 | 25.68 | 0.29 | 13.06 | 0.061 | 2.75 | 0.075 | 3.38 | 0.40 | 18.02 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 9): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | PITUITARY ABS. WT. | PITUITARY REL. % BRW | LIVER ABS. WT. | LIVER REL. % BRW | KIDNEY LEFT ABS. WT. | KIDNEY LEFT REL. % BRW | KIDNEY RIGHT ABS. WT. | KIDNEY RIGHT REL. % BRW | ADRENAL LEFT ABS. WT. | ADRENAL LEFT REL. % BRW | ADRENAL RIGHT ABS. WT. | ADRENAL RIGHT REL. % BRW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1541 | 2.00 | 0.022 | 1.10 | 14.69 | 734.50 | 1.11 | 55.50 | 1.20 | 60.00 | 0.050 | 2.50 | 0.043 | 2.15 |
| 1544 | 2.12 | 0.016 | 0.75 | 16.14 | 761.32 | 1.57 | 74.06 | 1.65 | 77.83 | 0.040 | 1.89 | 0.050 | 2.36 |
| 1545 | 2.13 | 0.012 | 0.56 | 17.89 | 839.91 | 1.40 | 65.73 | 1.47 | 69.01 | 0.065 | 3.05 | 0.054 | 2.54 |
| 1546 | 2.04 | 0.019 | 0.93 | 17.75 | 870.10 | 1.32 | 64.70 | 1.45 | 71.08 | 0.032 | 1.57 | 0.044 | 2.16 |
| 1548 | 2.02 | 0.017 | 0.84 | 18.02 | 892.08 | 1.49 | 73.76 | 1.50 | 74.26 | 0.053 | 2.62 | 0.049 | 2.42 |
| 1550 | 2.05 | 0.016 | 0.78 | 19.33 | 942.93 | 1.29 | 62.93 | 1.33 | 64.88 | 0.055 | 2.68 | 0.053 | 2.58 |
| 1552 | 2.19 | 0.018 | 0.82 | 16.81 | 767.58 | 1.43 | 65.30 | 1.56 | 71.23 | 0.042 | 1.92 | 0.039 | 1.78 |
| 1555 | 2.03 | 0.009 | 0.44 | 15.58 | 767.49 | 1.21 | 59.60 | 1.25 | 61.58 | 0.045 | 2.22 | 0.040 | 1.97 |
| 1557 | 2.20 | 0.018 | 0.82 | 15.27 | 694.09 | 1.30 | 59.09 | 1.24 | 56.36 | 0.039 | 1.77 | 0.034 | 1.54 |
| 1558 | 2.01 | 0.011 | 0.55 | 17.49 | 870.15 | 1.50 | 74.63 | 1.55 | 77.11 | 0.042 | 2.09 | 0.039 | 1.94 |
| 1560 | 2.21 | 0.015 | 0.68 | 18.14 | 820.81 | 1.37 | 61.99 | 1.57 | 71.04 | 0.041 | 1.86 | 0.043 | 1.94 |
| 1564 | 2.00 | 0.012 | 0.60 | 17.80 | 890.00 | 1.37 | 68.50 | 1.39 | 69.50 | 0.044 | 2.20 | 0.048 | 2.40 |
| 1565 | 2.03 | 0.013 | 0.64 | 14.42 | 710.34 | 1.11 | 54.68 | 1.22 | 60.10 | 0.042 | 2.07 | 0.044 | 2.17 |
| 1566 | 2.13 | 0.010 | 0.47 | 17.00 | 798.12 | 1.30 | 61.03 | 1.28 | 60.09 | 0.053 | 2.49 | 0.035 | 1.64 |
| 1568 | 2.21 | 0.018 | 0.81 | 15.50 | 701.36 | 1.24 | 56.11 | 1.27 | 57.47 | 0.040 | 1.81 | 0.034 | 1.54 |
| 1571 | 1.91 | 0.010 | 0.52 | 15.97 | 836.12 | 1.14 | 59.68 | 1.23 | 64.40 | 0.043 | 2.25 | 0.044 | 2.30 |
| 1573 | 2.03 | 0.015 | 0.74 | 17.15 | 844.83 | 1.20 | 59.11 | 1.20 | 59.11 | 0.033 | 1.62 | 0.030 | 1.48 |
| 1576 | 1.78 | 0.015 | 0.84 | 15.62 | 877.53 | 1.20 | 67.42 | 1.29 | 72.47 | 0.043 | 2.42 | 0.039 | 2.19 |
| 1578 | NOT PREGNANT | | | | | | | | | | | | |
| 1579 | 1.99 | 0.013 | 0.65 | 17.26 | 867.34 | 1.37 | 68.84 | 1.37 | 68.84 | 0.044 | 2.21 | 0.037 | 1.86 |
| 1583 | 2.11 | 0.014 | 0.66 | 16.59 | 786.26 | 1.38 | 65.40 | 1.42 | 67.30 | 0.044 | 2.08 | 0.036 | 1.71 |
| 1584 | 2.13 | 0.016 | 0.75 | 13.71 | 643.66 | 1.19 | 55.87 | 1.19 | 55.87 | 0.024 | 1.13 | 0.039 | 1.83 |
| 1586 | 2.15 | 0.015 | 0.70 | 15.78 | 733.95 | 1.49 | 69.30 | 1.40 | 65.12 | 0.050 | 2.32 | 0.040 | 1.86 |
| 1587 | 2.02 | 0.014 | 0.69 | 15.72 | 778.22 | 1.23 | 60.89 | 1.35 | 66.83 | 0.041 | 2.03 | 0.034 | 1.68 |
| 1588 | 2.10 | 0.016 | 0.76 | 17.39 | 828.10 | 1.34 | 63.81 | 1.35 | 64.28 | 0.047 | 2.24 | 0.046 | 2.19 |
| 1589 | 2.02 | 0.015 | 0.74 | 17.58 | 870.30 | 1.21 | 59.90 | 1.30 | 64.36 | 0.046 | 2.28 | 0.042 | 2.08 |
| 1591 | 2.11 | 0.015 | 0.71 | 18.89 | 895.26 | 1.38 | 65.40 | 1.40 | 66.35 | 0.047 | 2.23 | 0.043 | 2.04 |
| 1593 | 2.04 | 0.023 | 1.13 | 17.20 | 843.14 | 1.98 | 97.06 | 2.18a | 106.86 | 0.046 | 2.25 | 0.041 | 2.01 |
| 1598 | 2.18 | 0.015 | 0.69 | 17.75 | 814.22 | 1.59 | 72.94 | 1.52 | 69.72 | 0.045 | 2.06 | 0.037 | 1.70 |
| 1600 | 2.18 | 0.012 | 0.55 | 18.06 | 828.44 | 1.25 | 57.34 | 1.45 | 66.51 | 0.059 | 2.71 | 0.044 | 2.02 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Rat 1593 had moderate dilation of the pelvis in the right kidney.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E37 (PAGE 10): BRAIN WEIGHTS, ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT NUMBER | BRAIN WEIGHT | SPLEEN | | THYMUS | | OVARY LEFT | | OVARY RIGHT | | UTERUS NON-GRAVID | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW | ABS. WT. | REL. % BRW |
| 1541 | 2.00 | 0.50 | 25.00 | 0.20 | 10.00 | 0.037 | 1.85 | 0.049 | 2.45 | 0.56 | 28.00 |
| 1544 | 2.12 | 0.76 | 35.85 | 0.44 | 20.75 | 0.098 | 4.62 | 0.089 | 4.20 | 0.82 | 38.68 |
| 1545 | 2.13 | 0.64 | 30.05 | 0.23 | 10.80 | 0.038 | 1.78 | 0.068 | 3.19 | 0.39 | 18.31 |
| 1546 | 2.04 | 0.59 | 28.92 | 0.25 | 12.25 | 0.058 | 2.84 | 0.065 | 3.19 | 0.37 | 18.14 |
| 1548 | 2.02 | 0.80 | 39.60 | 0.21 | 10.40 | 0.062 | 3.07 | 0.049 | 2.42 | 0.82 | 40.59 |
| 1550 | 2.05 | 0.60 | 29.27 | 0.14 | 6.83 | 0.050 | 2.44 | 0.049 | 2.39 | 0.27 | 13.17 |
| 1552 | 2.19 | 0.57 | 26.03 | 0.11 | 5.02 | 0.058 | 2.65 | 0.055 | 2.51 | 0.94 | 42.92 |
| 1555 | 2.03 | 0.52 | 25.62 | 0.21 | 10.34 | 0.040 | 1.97 | 0.031 | 1.53 | 0.49 | 24.14 |
| 1557 | 2.20 | 0.48 | 21.82 | 0.12 | 5.45 | 0.044 | 2.00 | 0.043 | 1.95 | 0.36 | 16.36 |
| 1558 | 2.01 | 0.74 | 36.82 | 0.24 | 11.94 | 0.058 | 2.88 | 0.058 | 2.88 | 0.71 | 35.32 |
| 1560 | 2.21 | 0.65 | 29.41 | 0.29 | 13.12 | 0.038 | 1.72 | 0.068 | 3.08 | 0.82 | 37.10 |
| 1564 | 2.00 | 0.65 | 32.50 | 0.24 | 12.00 | 0.051 | 2.55 | 0.068 | 3.40 | 0.45 | 22.50 |
| 1565 | 2.03 | 0.64 | 31.53 | 0.26 | 12.81 | 0.064 | 3.15 | 0.054 | 2.66 | 0.67 | 33.00 |
| 1566 | 2.13 | 0.56 | 26.29 | 0.19 | 8.92 | 0.045 | 2.11 | 0.043 | 2.02 | 0.46a | 21.60 |
| 1568 | 2.21 | 0.56 | 25.34 | 0.19 | 8.60 | 0.046 | 2.08 | 0.052 | 2.35 | 0.42 | 19.00 |
| 1571 | 1.91 | 0.56 | 29.32 | 0.12 | 6.28 | 0.032 | 1.68 | 0.035 | 1.83 | 0.31 | 16.23 |
| 1573 | 2.03 | 0.47 | 23.15 | 0.20 | 9.85 | 0.043 | 2.12 | 0.042 | 2.07 | 0.39 | 19.21 |
| 1576 | 1.78 | 0.62 | 34.83 | 0.17 | 9.55 | 0.043 | 2.42 | 0.054 | 3.03 | 0.34 | 19.10 |
| 1578 | NOT PREGNANT | | | | | | | | | | |
| 1579 | 1.99 | 0.69 | 34.67 | 0.13 | 6.53 | 0.051 | 2.56 | 0.041 | 2.06 | 0.66 | 33.16 |
| 1583 | 2.11 | 0.48 | 22.75 | 0.16 | 7.58 | 0.068 | 3.22 | 0.040 | 1.90 | 0.38 | 18.01 |
| 1584 | 2.13 | 0.51 | 23.94 | 0.33 | 15.49 | 0.052 | 2.44 | 0.066 | 3.10 | 0.51 | 23.94 |
| 1586 | 2.15 | 0.50 | 23.26 | 0.12 | 5.58 | 0.043 | 2.00 | 0.035 | 1.63 | 0.45 | 20.93 |
| 1587 | 2.02 | 0.52 | 25.74 | 0.26 | 12.87 | 0.060 | 2.97 | 0.055 | 2.72 | 0.59 | 29.21 |
| 1588 | 2.10 | 0.58 | 27.62 | 0.37 | 17.62 | 0.043 | 2.05 | 0.045 | 2.14 | 0.83 | 39.52 |
| 1589 | 2.02 | 0.59 | 29.21 | 0.16 | 7.92 | 0.043 | 2.13 | 0.045 | 2.23 | 0.45 | 22.28 |
| 1591 | 2.11 | 0.64 | 30.33 | 0.22 | 10.43 | 0.049 | 2.32 | 0.041 | 1.94 | 0.56 | 26.54 |
| 1593 | 2.04 | 0.95 | 46.57 | 0.50 | 24.51 | 0.069 | 3.38 | 0.069 | 3.38 | 0.61 | 29.90 |
| 1598 | 2.18 | 0.51 | 23.39 | 0.20 | 9.17 | 0.065 | 2.98 | 0.051 | 2.34 | 0.60 | 27.52 |
| 1600 | 2.18 | 0.66 | 30.28 | 0.16 | 7.34 | 0.046 | 2.11 | 0.045 | 2.06 | 0.44 | 20.18 |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/BRAIN WEIGHT) X 100.
a. Damaged during processing (weight not affected).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E38 (PAGE 1): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP I — 0 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) | LITTER DELIVERED | | | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM | | | | | | | | | | TOTAL IMPLAN-TATIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIVE BORN | STILL-BORN | TOTAL BORN | 1 | | 5 | | 8 | | 15 | | 22 | | |
| | N | N | N | N | M | F | M | F | M | F | M | F | M | F | N |
| 1302 | 22 | 11 | 0 | 11 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 13 |
| 1304 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 14 |
| 1306 | 22 | 16 | 0 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 17 |
| 1308 | 22 | 16 | 0 | 16 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 17 |
| 1310 | 23 | 14 | 0 | 14 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 15 |
| 1312 | 23 | 4 | 0 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| 1313 | 23 | 13 | 0 | 13 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 7 | 15 |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1318 | 23 | 15 | 0 | 15 | 9 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 16 |
| 1321 | 23 | 17 | 0 | 17 | 8 | 9 | 8 | 9 | 8 | 9 | 7 | 8 | 7 | 8 | 17 |
| 1325 | 23 | 11 | 0 | 11 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 12 |
| 1328 | 22 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 16 |
| 1330 | 23 | 16 | 0 | 16 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 16 |
| 1331 | 23 | 16 | 0 | 16 | 12 | 4 | 12 | 4 | 12 | 4 | 11 | 4 | 11 | 4 | 16 |
| 1334 | 23 | 9 | 0 | 9 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 10 |
| 1335 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 13 |
| 1336 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 16 |
| 1338 | 23 | 17 | 0 | 17 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 8 | 18 |
| 1340 | 22 | 14 | 0 | 14 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 16 |
| 1341 | 23 | 12 | 0 | 12 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 14 |
| 1342 | 23 | 16 | 0 | 16 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 16 |
| 1344 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 16 |
| 1345 | 23 | 14 | 2 | 16 | 5 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 16 |
| 1346 | 23 | 10 | 0 | 10 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 10 |
| 1348 | 23 | 14 | 2 | 16 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 18 |
| 1350 | 23 | 17 | 0 | 17 | 13 | 4 | 13 | 4 | 13 | 4 | 13 | 4 | 13 | 4 | 18 |
| 1353 | 22 | 13 | 0 | 14[1] | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 15 |
| 1355 | 23 | 15 | 0 | 15 | 4 | 11 | 4 | 11 | 4 | 11 | 4 | 11 | 4 | 11 | 16 |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | |
| 1359 | 23 | 13 | 1 | 14 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 14 |

M = MALE F = FEMALE

[ ] = NUMBER OF PUPS IN WHICH CANNIBALIZATION AND/OR AUTOLYSIS PRECLUDED THE DETERMINATION OF VIABILITY.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E38 (PAGE 2): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP II — 1 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1362 | 23 | 7 | 0 | 7 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 12 |
| 1363 | 22 | 17 | 1 | 18 | 7 | 10 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 20 |
| 1364 | 22 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 17 |
| 1367 | 22 | 13 | 0 | 13 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 14 |
| 1368 | 23 | 15 | 0 | 15 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 18 |
| 1371 | 23 | 17 | 0 | 17 | 11 | 6 | 11 | 6 | 11 | 6 | 11 | 5 | 11 | 5 | 18 |
| 1375 | 22 | 14 | 0 | 14 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 4 | 14 |
| 1376 | 23 | 15 | 2 | 17 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 17 |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1379 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 16 |
| 1381 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 13 |
| 1382 | 23 | 13 | 0 | 13 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 16 |
| 1383 | 23 | 11 | 0 | 11 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 20 |
| 1384 | 22 | 13 | 0 | 13 | 6 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 15 |
| 1387 | 23 | 16 | 1 | 17 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 17 |
| 1389 | 22 | 16 | 0 | 16 | 8 | 8 | 8 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 16 |
| 1392 | 22 | 17 | 0 | 17 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 18 |
| 1393 | 23 | 11 | 1 | 12 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 14 |
| 1397 | 23 | 12 | 0 | 12 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 15 |
| 1399 | 23 | 10 | 0 | 10 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 16 |
| 1401 | 22 | 12 | 0 | 12 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 15 |
| 1404 | 23 | 15 | 0 | 15 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 16 |
| 1407 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 17 |
| 1409 | 23 | 12 | 0 | 12 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 12 |
| 1410 | 21 | 17 | 0 | 17 | 13 | 4 | 13 | 3 | 13 | 3 | 13 | 3 | 13 | 3 | 18 |
| 1413 | 23 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 14 |
| 1415 | 23 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 13 |
| 1416 | 23 | 14 | 0 | 14 | 3 | 11 | 3 | 11 | 3 | 11 | 3 | 11 | 3 | 11 | 16 |
| 1418 | 23 | 16 | 0 | 16 | 6 | 10 | 6 | 8 | 6 | 8 | 6 | 7 | 6 | 7 | 16 |

M = MALE F = FEMALE

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E38 (PAGE 3): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP III — 3 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) | LITTER DELIVERED LIVE BORN | STILL-BORN | TOTAL BORN | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 | | 5 | | 8 | | 15 | | 22 | | TOTAL IMPLAN-TATIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | N | N | N | M | F | M | F | M | F | M | F | M | F | N |
| 1421 | 23 | 17(2) | 0 | 17 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 17 |
| 1424 | 22 | 17 | 0 | 17 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 17 |
| 1426 | 23 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 14 |
| 1428 | 23 | 15 | 0 | 15 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 16 |
| 1430 | 23 | 17 | 0 | 17 | 6 | 11 | 6 | 11 | 6 | 11 | 6 | 11 | 6 | 11 | 17 |
| 1431 | 23 | 16(1) | 0 | 16 | 9 | 6 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 16 |
| 1433 | 22 | 18 | 0 | 18 | 10 | 8 | 10 | 8 | 10 | 7 | 10 | 7 | 10 | 7 | 19 |
| 1436 | 23 | 12 | 0 | 12 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 14 |
| 1437 | 22 | 16 | 0 | 16 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 16 |
| 1439 | 23 | 10(1) | 2 | 12 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 14 |
| 1442 | 23 | 7 | 0 | 7 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 7 |
| 1443 | 23 | 14 | 0 | 14 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 14 |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1448 | 23 | 14 | 2 | 16 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 16 |
| 1450 | 23 | 14 | 0 | 14 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 16 |
| 1452 | 22 | 14 | 0 | 14 | 8 | 6 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 15 |
| 1455 | 22 | 15 | 0 | 15 | 8 | 7 | 6 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 16 |
| 1456 | 23 | 6 | 0 | 6 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 7 |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1459 | 23 | 14 | 0 | 14 | 9 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 15 |
| 1461 | 23 | 11 | 0 | 11 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 12 |
| 1463 | 23 | 13 | 2 | 15 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 16 |
| 1465 | 23 | 16 | 0 | 16 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 16 |
| 1468 | 22 | 16 | 0 | 16 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 16 |
| 1469 | 23 | 12 | 0 | 12 | 9 | 3 | 9 | 3 | 9 | 3 | 9 | 3 | 9 | 3 | 12 |
| 1472 | 23 | 10 | 0 | 10 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 11 |
| 1474 | 23 | 14 | 0 | 14 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 15 |
| 1476 | 22 | 17(1) | 0 | 17 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 17 |
| 1477 | 22 | 17 | 0 | 17 | 8 | 9 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 17 |
| 1480 | 23 | 13 | 0 | 13 | 3 | 10 | 3 | 10 | 3 | 10 | 3 | 10 | 3 | 10 | 14 |

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E38 (PAGE 4): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP IV — 10 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1482 | 23 | 15(1) | 1 | 16 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 16 |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1486 | 23 | 15 | 0 | 15 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 15 |
| 1488 | 23 | 15 | 0 | 15 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 15 |
| 1490 | 23 | 10 | 0 | 10 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 16 |
| 1491 | 22 | 14 | 0 | 15[1] | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 15 |
| 1494 | 23 | 14(1) | 0 | 14 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 17 |
| 1496 | 22 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 15 |
| 1497 | 23 | 11 | 0 | 11 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 11 |
| 1500 | 23 | 14 | 1 | 15 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 20 |
| 1502 | 23 | 13 | 0 | 13 | 4 | 9 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 16 |
| 1505 | 23 | 16 | 0 | 16 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 16 |
| 1507 | 22 | 16 | 0 | 16 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 7 | 16 |
| 1508 | 23 | 13 | 0 | 13 | 4 | 9 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 15 |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1513 | 23 | 13 | 1 | 14 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 15 |
| 1514 | 23 | 17 | 0 | 17 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 7 | 9 | 7 | 17 |
| 1516 | 22 | 13 | 0 | 13 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 15 |
| 1517 | 22 | 15 | 0 | 15 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 15 |
| 1519 | 23 | 16 | 0 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 16 |
| 1521 | 23 | 12 | 0 | 12 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 12 |
| 1523 | 22 | 12(1) | 0 | 12 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 14 |
| 1524 | 25 | 2 | 0 | 2 | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 4 |
| 1527 | 23 | 17 | 0 | 17 | 11 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 17 |
| 1528 | 23 | 10 | 0 | 10 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 11 |
| 1531 | 23 | 13 | 2 | 15 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 15 |
| 1533 | 22 | 19(1) | 0 | 19 | 6 | 12 | 6 | 12 | 6 | 11 | 6 | 11 | 6 | 11 | 20 |
| 1534 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 14 |
| 1537 | 23 | 14 | 1 | 15 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 15 |
| 1539 | 23 | 14 | 0 | 14 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 9 | 5 | 16 |

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.
[ ] = NUMBER OF PUPS IN WHICH CANNIBALIZATION AND/OR AUTOLYSIS PRECLUDED THE DETERMINATION OF VIABILITY.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E38 (PAGE 5): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP V — 30 MG/KG/DAY

| RAT/ LITTER NUMBER | DURATION OF GESTATION (DAYS) N | LITTER DELIVERED LIVE BORN N | STILL-BORN N | TOTAL BORN N | NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M | 1 F | 5 M | 5 F | 8 M | 8 F | 15 M | 15 F | 22 M | 22 F | TOTAL IMPLAN-TATIONS N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1541 | 23 | 14 | 0 | 14 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 15 |
| 1544 | 23 | 13 | 1 | 14 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 15 |
| 1545 | 23 | 19 | 0 | 19 | 9 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 19 |
| 1546 | 22 | 15 | 0 | 15 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 17 |
| 1548 | 22 | 13 | 1 | 14 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 14 |
| 1550 | 22 | 12 | 0 | 12 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 14 |
| 1552 | 23 | 14 | 0 | 14 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 16 |
| 1555 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 15 |
| 1557 | 23 | 13 | 0 | 13 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 14 |
| 1558 | 23 | 16 | 0 | 16 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 17 |
| 1560 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 15 |
| 1564 | 23 | 13 | 0 | 13 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 15 |
| 1565 | 23 | 12 | 0 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 16 |
| 1566 | 23 | 15 | 0 | 15 | 2 | 13 | 2 | 13 | 2 | 13 | 2 | 13 | 2 | 13 | 15 |
| 1568 | 23 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 17 |
| 1571 | 22 | 13 | 0 | 13 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 15 |
| 1573 | 23 | 15 | 0 | 15 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 16 |
| 1576 | 22 | 13 | 0 | 13 | 8 | 5 | 8 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 13 |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1579 | 22 | 15 | 0 | 15 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 15 |
| 1583 | 22 | 12 | 0 | 12 | 5 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 4 | 7 | 12 |
| 1584 | 23 | 4 | 0 | 4 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 5 |
| 1586 | 23 | 13 | 0 | 13 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 13 |
| 1587 | 22 | 11 | 0 | 11 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 13 |
| 1588 | 23 | 13 | 0 | 13 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 4 | 9 | 14 |
| 1589 | 22 | 14 | 0 | 14 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 16 |
| 1591 | 23 | 14 | 0 | 14 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 14 |
| 1593 | 23 | 6 | 0 | 6 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 6 |
| 1598 | 23 | 17 | 0 | 17 | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | 17 |
| 1600 | 23 | 15(1) | 0 | 15 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 10 | 4 | 17 |

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E39 (PAGE 1): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP I 0 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 1302 | 6.9 | 6.3 | 6.6 | 11.7 | 10.4 | 11.0 | 16.2 | 15.0 | 15.6 | 28.4 | 26.5 | 27.4 | 47.4 | 44.1 | 45.6 |
| 1304 | 6.5 | 6.1 | 6.3 | 11.6 | 10.5 | 11.1 | 17.2 | 15.6 | 16.4 | 28.6 | 26.3 | 27.4 | 45.6 | 43.3 | 44.4 |
| 1306 | 6.2 | 5.9 | 6.1 | 9.7 | 9.9 | 9.8 | 14.0 | 13.4 | 13.7 | 23.2 | 22.5 | 22.8 | 34.2 | 34.0 | 34.1 |
| 1308 | 6.2 | 6.1 | 6.1 | 8.3 | 8.6 | 8.4 | 12.0 | 11.6 | 11.7 | 22.1 | 22.4 | 22.3 | 27.6 | 28.5 | 28.2 |
| 1310 | 6.8 | 6.1 | 6.5 | 10.7 | 10.2 | 10.5 | 15.9 | 14.9 | 15.6 | 27.8 | 25.0 | 26.8 | 44.6 | 40.0 | 43.0 |
| 1312 | 8.4 | 8.0 | 8.2 | 13.8 | 14.2 | 14.0 | 21.2 | 21.8 | 21.5 | 36.9 | 39.2 | 38.0 | 53.0 | 53.3 | 53.2 |
| 1313 | 6.7 | 6.2 | 6.4 | 10.8 | 10.5 | 10.6 | 15.5 | 14.8 | 15.0 | 24.4 | 22.0 | 23.0 | 40.7 | 38.4 | 39.4 |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1318 | 7.3 | 7.0 | 7.2 | 12.3 | 12.2 | 12.2 | 17.7 | 17.6 | 17.6 | 28.4 | 28.2 | 28.3 | 48.3 | 48.1 | 48.2 |
| 1321 | 6.4 | 6.2 | 6.3 | 8.8 | 8.6 | 8.7 | 12.7 | 12.3 | 12.5 | 18.9 | 16.4 | 17.6 | 31.2 | 27.4 | 29.2 |
| 1325 | 6.8 | 6.6 | 6.7 | 10.7 | 10.6 | 10.7 | 15.4 | 15.3 | 15.3 | 28.6 | 28.2 | 28.4 | 36.5 | 36.2 | 36.3 |
| 1328 | 6.2 | 6.0 | 6.1 | 9.8 | 9.5 | 9.6 | 14.9 | 14.3 | 14.6 | 29.1 | 27.9 | 28.5 | 48.9 | 45.4 | 47.3 |
| 1330 | 6.6 | 6.3 | 6.5 | 8.8 | 8.3 | 8.5 | 11.5 | 10.9 | 11.2 | 21.3 | 19.0 | 20.0 | 27.9 | 23.4 | 25.4 |
| 1331 | 6.1 | 6.0 | 6.1 | 8.8 | 8.2 | 8.6 | 11.8 | 11.0 | 11.6 | 22.0 | 20.0 | 21.5 | 30.8 | 28.0 | 30.0 |
| 1334 | 7.2 | 6.5 | 7.0 | 11.1 | 10.4 | 10.9 | 15.3 | 14.7 | 15.1 | 28.4 | 28.2 | 28.3 | 38.7 | 38.3 | 38.5 |
| 1335 | 6.6 | 6.0 | 6.3 | 9.8 | 9.4 | 9.6 | 14.8 | 14.2 | 14.5 | 25.4 | 25.0 | 25.2 | 41.6 | 39.9 | 40.7 |
| 1336 | 7.1 | 6.9 | 7.0 | 10.4 | 10.4 | 10.4 | 15.6 | 15.8 | 15.7 | 24.8 | 25.5 | 25.2 | 40.9 | 41.2 | 41.1 |
| 1338 | 6.4 | 6.3 | 6.3 | 10.4 | 10.0 | 10.2 | 15.0 | 14.6 | 14.8 | 20.2 | 17.7 | 18.9 | 29.0 | 27.9 | 28.4 |
| 1340 | 6.4 | 5.9 | 6.2 | 10.9 | 10.2 | 10.6 | 14.6 | 13.8 | 14.3 | 27.0 | 25.1 | 26.2 | 42.5 | 40.6 | 41.7 |
| 1341 | 7.2 | 6.7 | 6.9 | 11.3 | 10.7 | 10.9 | 16.2 | 15.7 | 15.8 | 28.7 | 27.6 | 28.0 | 47.6 | 45.4 | 46.1 |
| 1342 | 6.3 | 5.8 | 6.1 | 10.3 | 9.5 | 10.0 | 14.6 | 13.2 | 14.0 | 23.6 | 19.8 | 21.9 | 38.2 | 33.6 | 36.2 |
| 1344 | 7.0 | 6.6 | 6.8 | 10.7 | 9.9 | 10.3 | 14.5 | 14.0 | 14.2 | 25.0 | 24.3 | 24.7 | 43.8 | 42.4 | 43.1 |
| 1345 | 7.3 | 6.5 | 6.8 | 10.6 | 9.9 | 10.1 | 15.7 | 14.9 | 15.1 | 29.4 | 28.3 | 28.6 | 40.0 | 39.4 | 39.6 |
| 1346 | 6.2 | 5.8 | 6.0 | 11.1 | 10.6 | 10.9 | 16.8 | 16.2 | 16.5 | 31.8 | 30.8 | 31.4 | 42.2 | 40.7 | 41.6 |
| 1348 | 6.3 | 6.0 | 6.2 | 9.1 | 8.7 | 9.0 | 13.4 | 12.9 | 13.2 | 26.4 | 25.4 | 26.0 | 37.1 | 35.4 | 36.3 |
| 1350 | 6.1 | 5.7 | 6.0 | 8.6 | 8.0 | 8.4 | 12.1 | 11.2 | 11.9 | 21.3 | 19.6 | 20.9 | 25.8 | 24.2 | 25.4 |
| 1353 | 6.3 | 6.1 | 6.2 | 11.0 | 10.5 | 10.7 | 13.0 | 12.4 | 12.7 | 24.4 | 23.7 | 24.0 | 41.4 | 40.5 | 40.9 |
| 1355 | 6.8 | 6.5 | 6.6 | 9.9 | 9.8 | 9.8 | 14.4 | 13.8 | 14.0 | 26.5 | 25.5 | 25.8 | 41.3 | 39.8 | 40.2 |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | |
| 1359 | 6.3 | 6.0 | 6.1 | 9.3 | 9.2 | 9.3 | 12.3 | 12.0 | 12.1 | 25.2 | 24.0 | 24.4 | 41.9 | 39.7 | 40.5 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E39 (PAGE 2): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP II 1 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 1362 | 6.6 | 6.2 | 6.4 | 12.0 | 11.5 | 11.7 | 17.6 | 17.1 | 17.4 | 33.8 | 32.8 | 33.3 | 42.7 | 42.3 | 42.5 |
| 1363 | 6.0 | 5.7 | 5.8 | 8.6 | 8.5 | 8.6 | 12.8 | 12.4 | 12.6 | 21.8 | 20.7 | 21.2 | 32.5 | 32.1 | 32.3 |
| 1364 | 5.4 | 5.1 | 5.3 | 9.1 | 8.7 | 8.9 | 13.5 | 12.8 | 13.1 | 23.0 | 21.5 | 22.2 | 32.9 | 30.6 | 31.7 |
| 1367 | 6.9 | 6.6 | 6.8 | 11.1 | 10.8 | 11.0 | 16.0 | 15.5 | 15.8 | 28.8 | 27.4 | 28.3 | 37.4 | 35.8 | 36.7 |
| 1368 | 6.5 | 5.9 | 6.2 | 10.9 | 10.2 | 10.6 | 15.8 | 15.1 | 15.5 | 24.9 | 24.0 | 24.4 | 42.2 | 38.8 | 40.6 |
| 1371 | 6.6 | 6.4 | 6.5 | 8.9 | 9.0 | 8.9 | 12.0 | 12.1 | 12.0 | 21.3 | 22.5 | 21.7 | 33.7 | 36.2 | 34.5 |
| 1375 | 6.6 | 6.0 | 6.4 | 10.2 | 9.1 | 9.8 | 14.6 | 12.8 | 14.0 | 26.1 | 22.2 | 24.7 | 34.5 | 30.5 | 33.3 |
| 1376 | 6.2 | 6.1 | 6.1 | 9.1 | 9.2 | 9.2 | 12.9 | 13.0 | 12.9 | 22.4 | 22.2 | 22.3 | 36.7 | 36.0 | 36.4 |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1379 | 6.6 | 6.4 | 6.5 | 11.0 | 10.0 | 10.5 | 16.0 | 14.8 | 15.4 | 28.9 | 27.2 | 28.0 | 38.8 | 36.0 | 37.4 |
| 1381 | 7.6 | 6.8 | 7.2 | 12.3 | 11.1 | 11.7 | 16.9 | 15.2 | 16.0 | 29.3 | 27.0 | 28.2 | 50.9 | 47.3 | 49.1 |
| 1382 | 6.3 | 5.7 | 5.9 | 10.2 | 9.1 | 9.5 | 15.7 | 14.1 | 14.7 | 31.0 | 28.5 | 29.5 | 38.3 | 35.1 | 36.3 |
| 1383 | 6.4 | 6.1 | 6.2 | 10.7 | 10.4 | 10.6 | 15.9 | 15.8 | 15.8 | 29.9 | 29.8 | 29.9 | 46.8 | 47.1 | 46.9 |
| 1384 | 7.1 | 6.5 | 6.8 | 11.9 | 11.2 | 11.5 | 17.5 | 16.7 | 17.0 | 28.3 | 27.6 | 27.9 | 41.8 | 41.5 | 41.7 |
| 1387 | 6.9 | 6.4 | 6.7 | 10.4 | 9.9 | 10.2 | 14.6 | 14.3 | 14.5 | 24.4 | 24.7 | 24.5 | 36.0 | 36.4 | 36.2 |
| 1389 | 6.0 | 5.3 | 5.6 | 8.3 | 8.0 | 8.2 | 12.3 | 11.6 | 11.9 | 23.0 | 21.3 | 22.1 | 36.8 | 34.7 | 35.7 |
| 1392 | 5.9 | 5.6 | 5.7 | 8.6 | 7.7 | 8.2 | 12.3 | 11.2 | 11.8 | 22.8 | 21.7 | 22.3 | 30.2 | 28.6 | 29.4 |
| 1393 | 6.6 | 6.1 | 6.4 | 11.2 | 10.4 | 10.8 | 17.1 | 16.1 | 16.5 | 32.4 | 31.1 | 31.7 | 44.4 | 43.0 | 43.6 |
| 1397 | 7.5 | 7.4 | 7.5 | 12.1 | 12.3 | 12.2 | 17.9 | 17.4 | 17.7 | 26.7 | 26.0 | 26.4 | 49.5 | 47.1 | 48.5 |
| 1399 | 7.0 | 6.7 | 6.8 | 12.4 | 11.8 | 12.0 | 17.3 | 16.3 | 16.7 | 27.9 | 26.2 | 26.9 | 47.4 | 45.0 | 46.0 |
| 1401 | 6.8 | 6.6 | 6.6 | 11.4 | 11.2 | 11.3 | 15.9 | 15.9 | 15.9 | 24.7 | 24.3 | 24.5 | 44.3 | 41.5 | 42.6 |
| 1404 | 6.1 | 5.8 | 6.0 | 10.1 | 10.0 | 10.1 | 12.9 | 12.5 | 12.8 | 23.4 | 21.9 | 22.9 | 37.2 | 33.4 | 35.9 |
| 1407 | 6.5 | 6.1 | 6.3 | 8.7 | 8.7 | 8.7 | 13.0 | 13.1 | 13.0 | 21.4 | 21.6 | 21.6 | 34.5 | 35.7 | 35.1 |
| 1409 | 6.0 | 5.8 | 5.9 | 10.1 | 10.0 | 10.1 | 14.1 | 14.0 | 14.0 | 27.7 | 27.0 | 27.4 | 47.5 | 45.2 | 46.6 |
| 1410 | 6.0 | 5.5 | 5.9 | 9.6 | 9.2 | 9.5 | 14.0 | 13.0 | 13.8 | 24.2 | 22.0 | 23.8 | 39.5 | 36.2 | 38.9 |
| 1413 | 6.5 | 5.9 | 6.2 | 9.4 | 8.5 | 9.0 | 12.8 | 12.2 | 12.5 | 26.1 | 25.7 | 25.9 | 45.2 | 43.6 | 44.5 |
| 1415 | 6.6 | 6.0 | 6.4 | 9.4 | 8.8 | 9.1 | 13.2 | 12.5 | 12.9 | 22.6 | 21.4 | 22.1 | 37.8 | 36.6 | 37.2 |
| 1416 | 6.3 | 6.5 | 6.4 | 9.3 | 9.2 | 9.2 | 12.9 | 13.2 | 13.1 | 21.9 | 21.9 | 21.9 | 35.3 | 35.4 | 35.4 |
| 1418 | 6.4 | 6.0 | 6.2 | 9.0 | 8.0 | 8.4 | 13.9 | 11.4 | 12.5 | 23.2 | 20.6 | 21.8 | 36.2 | 32.7 | 34.3 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E39 (PAGE 3): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP III 3 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 1421 | 6.7 | 6.3 | 6.6 | 9.8 | 9.6 | 9.8 | 13.9 | 13.2 | 13.6 | 24.5 | 22.6 | 23.8 | 31.6 | 30.0 | 31.0 |
| 1424 | 5.5 | 5.2 | 5.3 | 8.3 | 7.8 | 8.1 | 12.2 | 11.4 | 11.8 | 20.0 | 19.2 | 19.6 | 27.5 | 27.2 | 27.4 |
| 1426 | 6.7 | 6.2 | 6.5 | 10.2 | 9.5 | 9.9 | 14.0 | 13.4 | 13.7 | 27.5 | 25.6 | 26.6 | 35.7 | 33.8 | 34.8 |
| 1428 | 6.9 | 6.2 | 6.5 | 10.4 | 9.7 | 10.0 | 15.1 | 14.1 | 14.5 | 24.6 | 22.5 | 23.3 | 39.6 | 37.2 | 38.2 |
| 1430 | 6.7 | 6.1 | 6.3 | 9.4 | 8.7 | 9.0 | 12.3 | 11.4 | 11.7 | 21.8 | 19.7 | 20.4 | 32.9 | 30.2 | 31.1 |
| 1431 | 6.3 | 6.5 | 6.4 | 10.3 | 10.3 | 10.3 | 14.7 | 14.6 | 14.7 | 26.9 | 26.2 | 26.6 | 43.3 | 43.0 | 43.2 |
| 1433 | 6.1 | 5.9 | 6.0 | 9.4 | 9.0 | 9.2 | 13.6 | 13.8 | 13.7 | 23.4 | 24.2 | 23.7 | 37.1 | 38.8 | 37.8 |
| 1436 | 6.4 | 5.8 | 6.2 | 10.4 | 9.8 | 10.2 | 15.3 | 14.3 | 14.9 | 27.7 | 25.9 | 27.1 | 37.8 | 35.8 | 37.2 |
| 1437 | 6.0 | 5.9 | 6.0 | 9.4 | 9.2 | 9.3 | 13.4 | 13.0 | 13.2 | 23.7 | 21.5 | 22.8 | 39.1 | 36.8 | 38.1 |
| 1439 | 6.8 | 6.5 | 6.7 | 11.3 | 10.8 | 11.2 | 17.4 | 16.5 | 17.1 | 32.6 | 29.9 | 31.7 | 54.2 | 50.7 | 53.0 |
| 1442 | 8.3 | 7.9 | 8.1 | 14.3 | 14.1 | 14.2 | 20.6 | 20.0 | 20.3 | 37.4 | 36.8 | 37.2 | 52.0 | 53.1 | 52.4 |
| 1443 | 6.3 | 6.2 | 6.2 | 10.0 | 10.0 | 10.0 | 14.5 | 14.4 | 14.5 | 26.6 | 26.2 | 26.4 | 40.3 | 40.0 | 40.2 |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1448 | 6.8 | 6.3 | 6.5 | 10.8 | 9.2 | 9.9 | 14.6 | 13.0 | 13.7 | 25.9 | 23.6 | 24.6 | 42.3 | 37.8 | 39.8 |
| 1450 | 6.1 | 6.0 | 6.0 | 8.6 | 8.6 | 8.6 | 12.6 | 12.5 | 12.5 | 24.1 | 23.5 | 23.7 | 31.4 | 29.7 | 30.2 |
| 1452 | 5.6 | 5.0 | 5.3 | 8.5 | 7.9 | 8.2 | 12.7 | 11.8 | 12.4 | 22.3 | 21.2 | 21.8 | 34.1 | 32.9 | 33.6 |
| 1455 | 6.0 | 5.6 | 5.8 | 9.5 | 8.6 | 9.0 | 15.2 | 14.2 | 14.7 | 32.2 | 29.5 | 30.9 | 49.0 | 45.1 | 47.0 |
| 1456 | 7.1 | 6.8 | 7.0 | 13.2 | 12.7 | 13.0 | 19.4 | 18.0 | 18.9 | 36.8 | 36.6 | 36.7 | 50.1 | 49.4 | 49.9 |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1459 | 6.3 | 5.9 | 6.2 | 10.9 | 10.7 | 10.8 | 16.5 | 16.3 | 16.4 | 25.9 | 25.6 | 25.8 | 44.8 | 44.4 | 44.6 |
| 1461 | 6.8 | 6.7 | 6.7 | 9.9 | 10.6 | 10.4 | 14.8 | 16.1 | 15.6 | 28.4 | 30.2 | 29.5 | 49.1 | 49.9 | 49.6 |
| 1463 | 6.5 | 6.0 | 6.3 | 10.4 | 9.8 | 10.1 | 14.5 | 13.4 | 14.0 | 25.0 | 24.0 | 24.5 | 37.3 | 37.7 | 37.5 |
| 1465 | 6.9 | 6.7 | 6.8 | 10.9 | 10.7 | 10.8 | 14.8 | 14.8 | 14.8 | 25.6 | 24.3 | 24.8 | 43.7 | 40.8 | 41.9 |
| 1468 | 5.9 | 5.5 | 5.6 | 10.0 | 9.1 | 9.4 | 13.0 | 11.9 | 12.2 | 20.1 | 20.8 | 20.6 | 32.4 | 31.6 | 31.9 |
| 1469 | 6.4 | 6.5 | 6.4 | 9.9 | 9.8 | 9.8 | 13.5 | 13.8 | 13.6 | 27.5 | 27.1 | 27.4 | 36.1 | 35.1 | 35.8 |
| 1472 | 8.3 | 7.9 | 8.1 | 14.2 | 13.0 | 13.6 | 19.0 | 17.1 | 18.0 | 28.8 | 26.8 | 27.8 | 49.9 | 46.5 | 48.2 |
| 1474 | 6.5 | 6.4 | 6.5 | 10.2 | 9.7 | 10.0 | 13.8 | 13.9 | 13.8 | 24.9 | 24.8 | 24.8 | 40.9 | 39.8 | 40.6 |
| 1476 | 6.0 | 5.7 | 5.8 | 8.1 | 7.5 | 7.8 | 11.3 | 10.4 | 10.8 | 23.4 | 23.2 | 23.3 | 36.5 | 35.4 | 35.9 |
| 1477 | 5.5 | 5.5 | 5.5 | 8.5 | 8.3 | 8.4 | 10.0 | 10.2 | 10.1 | 18.8 | 20.9 | 19.8 | 29.9 | 34.7 | 32.3 |
| 1480 | 7.7 | 7.4 | 7.4 | 12.1 | 11.6 | 11.7 | 17.1 | 16.4 | 16.5 | 28.2 | 28.4 | 28.3 | 46.1 | 44.6 | 45.0 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E39 (PAGE 4): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP IV 10 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 1482 | 7.1 | 6.8 | 6.9 | 10.8 | 10.1 | 10.4 | 14.3 | 12.8 | 13.4 | 23.6 | 21.4 | 22.4 | 37.9 | 34.5 | 35.9 |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1486 | 7.1 | 6.8 | 7.0 | 10.4 | 9.9 | 10.2 | 14.6 | 14.1 | 14.4 | 25.7 | 25.2 | 25.5 | 33.1 | 34.4 | 33.6 |
| 1488 | 6.5 | 6.0 | 6.3 | 10.8 | 9.8 | 10.3 | 15.6 | 14.2 | 15.0 | 26.9 | 24.3 | 25.7 | 39.4 | 36.1 | 37.9 |
| 1490 | 7.9 | 7.1 | 7.7 | 14.1 | 13.1 | 13.8 | 19.8 | 18.3 | 19.4 | 31.0 | 28.7 | 30.4 | 52.2 | 49.3 | 51.4 |
| 1491 | 6.0 | 5.7 | 5.8 | 10.0 | 9.2 | 9.4 | 14.3 | 13.2 | 13.5 | 27.3 | 25.7 | 26.1 | 34.1 | 31.8 | 32.4 |
| 1494 | 6.7 | 6.0 | 6.4 | 10.2 | 9.4 | 9.8 | 14.0 | 13.0 | 13.6 | 24.7 | 23.6 | 24.3 | 43.3 | 40.1 | 42.1 |
| 1496 | 6.3 | 6.3 | 6.3 | 9.2 | 9.7 | 9.4 | 11.3 | 11.2 | 11.2 | 22.1 | 22.0 | 22.0 | 37.7 | 37.7 | 37.7 |
| 1497 | 7.0 | 6.9 | 6.9 | 11.4 | 11.0 | 11.2 | 17.2 | 17.0 | 17.1 | 30.2 | 30.3 | 30.3 | 52.4 | 48.3 | 49.8 |
| 1500 | 6.1 | 6.2 | 6.2 | 9.0 | 8.8 | 9.0 | 12.4 | 12.7 | 12.5 | 24.6 | 24.2 | 24.5 | 40.1 | 40.7 | 40.3 |
| 1502 | 6.4 | 5.8 | 6.0 | 11.4 | 10.4 | 10.8 | 16.6 | 15.5 | 15.9 | 31.1 | 28.4 | 29.3 | 47.9 | 45.9 | 46.5 |
| 1505 | 6.3 | 6.1 | 6.2 | 9.3 | 8.6 | 8.9 | 12.1 | 11.9 | 12.0 | 19.4 | 19.4 | 19.4 | 29.3 | 29.3 | 29.3 |
| 1507 | 5.5 | 5.4 | 5.4 | 7.7 | 7.6 | 7.7 | 10.8 | 10.4 | 10.6 | 22.6 | 21.1 | 22.0 | 33.6 | 31.4 | 32.7 |
| 1508 | 6.5 | 5.7 | 6.0 | 11.1 | 10.0 | 10.4 | 16.0 | 15.0 | 15.3 | 29.4 | 27.7 | 28.2 | 40.8 | 39.9 | 40.2 |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1513 | 6.8 | 6.7 | 6.8 | 10.1 | 10.2 | 10.1 | 14.7 | 13.7 | 14.4 | 23.7 | 22.4 | 23.3 | 38.3 | 36.6 | 37.8 |
| 1514 | 6.3 | 6.1 | 6.2 | 9.2 | 8.8 | 9.0 | 13.3 | 12.1 | 12.8 | 20.7 | 19.4 | 20.1 | 32.4 | 31.0 | 31.8 |
| 1516 | 6.8 | 6.8 | 6.8 | 11.4 | 11.1 | 11.3 | 16.3 | 15.7 | 16.1 | 28.6 | 27.2 | 28.2 | 46.2 | 43.8 | 45.4 |
| 1517 | 5.8 | 5.6 | 5.7 | 9.8 | 9.3 | 9.6 | 14.2 | 13.2 | 13.7 | 26.8 | 25.8 | 26.4 | 35.0 | 31.9 | 33.6 |
| 1519 | 6.3 | 5.7 | 6.0 | 9.8 | 8.4 | 9.1 | 13.3 | 11.9 | 12.6 | 23.1 | 19.8 | 21.4 | 36.4 | 33.2 | 34.9 |
| 1521 | 7.1 | 6.9 | 7.0 | 10.7 | 10.4 | 10.6 | 14.5 | 14.1 | 14.3 | 24.7 | 23.3 | 24.1 | 43.2 | 41.3 | 42.4 |
| 1523 | 6.1 | 5.8 | 6.0 | 10.6 | 10.1 | 10.4 | 15.8 | 14.7 | 15.4 | 30.1 | 27.0 | 29.0 | 46.8 | 44.3 | 45.9 |
| 1524 | 8.6 | --- | 8.6 | 15.0 | --- | 15.0 | 21.5 | --- | 21.5 | 33.6 | --- | 33.6 | 54.4 | --- | 54.4 |
| 1527 | 6.3 | 5.9 | 6.2 | 9.3 | 8.6 | 9.0 | 13.2 | 12.0 | 12.7 | 18.7 | 16.8 | 18.0 | 28.5 | 25.4 | 27.3 |
| 1528 | 7.1 | 6.5 | 6.8 | 11.0 | 10.2 | 10.7 | 13.0 | 12.1 | 12.6 | 26.4 | 24.3 | 25.6 | 44.1 | 40.5 | 42.6 |
| 1531 | 6.7 | 5.8 | 6.3 | 10.8 | 9.7 | 10.4 | 15.7 | 13.9 | 15.0 | 24.4 | 22.9 | 23.8 | 40.0 | 37.4 | 39.0 |
| 1533 | 5.6 | 5.3 | 5.4 | 8.9 | 8.4 | 8.6 | 12.6 | 12.9 | 12.8 | 21.1 | 21.9 | 21.6 | 35.2 | 36.0 | 35.7 |
| 1534 | 7.3 | 6.9 | 7.1 | 10.1 | 9.6 | 9.8 | 13.8 | 13.2 | 13.5 | 22.5 | 22.2 | 22.4 | 39.4 | 37.8 | 38.6 |
| 1537 | 6.4 | 5.8 | 6.2 | 10.0 | 8.6 | 9.6 | 14.1 | 12.2 | 13.6 | 22.6 | 20.6 | 22.0 | 34.9 | 33.2 | 34.4 |
| 1539 | 6.4 | 6.4 | 6.4 | 11.2 | 11.2 | 11.2 | 16.3 | 16.3 | 16.3 | 25.4 | 24.8 | 25.2 | 40.6 | 40.7 | 40.6 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E39 (PAGE 5): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP V — 30 MG/KG/DAY

| RAT/ LITTER NUMBER | DAY 1 | | | DAY 5 | | | DAY 8 | | | DAY 15 | | | DAY 22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T |
| 1541 | 6.0 | 5.6 | 5.7 | 10.4 | 9.6 | 9.8 | 14.4 | 13.4 | 13.6 | 25.1 | 23.8 | 24.2 | 33.2 | 33.3 | 33.3 |
| 1544 | 6.4 | 6.4 | 6.4 | 11.1 | 10.9 | 11.0 | 15.7 | 15.0 | 15.3 | 30.3 | 29.7 | 30.0 | 45.0 | 45.0 | 45.0 |
| 1545 | 6.3 | 6.1 | 6.2 | 9.5 | 8.7 | 9.1 | 13.8 | 12.4 | 13.1 | 21.8 | 19.9 | 20.9 | 33.4 | 32.5 | 33.0 |
| 1546 | 5.6 | 5.4 | 5.5 | 9.4 | 9.1 | 9.2 | 13.0 | 12.3 | 12.7 | 18.7 | 17.8 | 18.3 | 32.0 | 31.3 | 31.7 |
| 1548 | 5.3 | 5.2 | 5.2 | 8.7 | 8.6 | 8.6 | 12.6 | 12.4 | 12.4 | 24.3 | 23.9 | 24.0 | 37.0 | 36.5 | 36.7 |
| 1550 | 6.6 | 6.0 | 6.2 | 10.5 | 9.6 | 10.0 | 14.9 | 13.8 | 14.2 | 24.0 | 22.3 | 23.0 | 41.0 | 37.3 | 38.9 |
| 1552 | 6.3 | 6.0 | 6.2 | 9.0 | 8.6 | 8.8 | 12.6 | 12.6 | 12.6 | 21.1 | 21.1 | 21.1 | 34.0 | 33.5 | 33.7 |
| 1555 | 6.3 | 5.4 | 5.8 | 9.0 | 8.3 | 8.7 | 12.8 | 11.9 | 12.4 | 21.7 | 20.2 | 20.9 | 31.4 | 28.4 | 29.9 |
| 1557 | 6.8 | 6.5 | 6.6 | 11.3 | 11.1 | 11.1 | 15.5 | 15.3 | 15.4 | 27.3 | 27.3 | 27.3 | 33.5 | 33.8 | 33.7 |
| 1558 | 6.5 | 6.5 | 6.5 | 9.9 | 10.2 | 10.0 | 13.9 | 13.9 | 13.9 | 23.3 | 22.9 | 23.1 | 34.5 | 34.8 | 34.6 |
| 1560 | 5.8 | 5.5 | 5.7 | 7.4 | 7.0 | 7.2 | 10.6 | 10.0 | 10.2 | 20.3 | 18.1 | 19.0 | 33.4 | 29.9 | 31.4 |
| 1564 | 6.2 | 5.8 | 6.0 | 10.2 | 9.2 | 9.7 | 13.0 | 12.3 | 12.6 | 22.9 | 21.6 | 22.2 | 38.7 | 35.3 | 36.9 |
| 1565 | 6.2 | 5.8 | 6.0 | 11.0 | 9.9 | 10.5 | 15.4 | 13.9 | 14.6 | 24.6 | 23.0 | 23.8 | 38.9 | 38.1 | 38.5 |
| 1566 | 6.2 | 5.9 | 5.9 | 9.4 | 8.4 | 8.5 | 12.4 | 11.4 | 11.5 | 21.7 | 19.2 | 19.5 | 37.8 | 33.5 | 34.0 |
| 1568 | 6.8 | 6.5 | 6.7 | 10.4 | 10.3 | 10.3 | 14.3 | 14.4 | 14.4 | 25.7 | 25.7 | 25.7 | 43.5 | 45.4 | 44.4 |
| 1571 | 5.6 | 5.2 | 5.3 | 8.0 | 7.4 | 7.6 | 11.3 | 10.4 | 10.8 | 21.3 | 19.8 | 20.5 | 31.2 | 29.2 | 30.1 |
| 1573 | 6.5 | 6.0 | 6.3 | 10.3 | 9.5 | 9.9 | 14.2 | 13.9 | 14.1 | 24.2 | 23.4 | 23.8 | 37.6 | 36.8 | 37.2 |
| 1576 | 5.8 | 5.8 | 5.8 | 7.3 | 7.4 | 7.3 | 10.5 | 10.8 | 10.7 | 20.3 | 20.5 | 20.4 | 32.2 | 32.9 | 32.5 |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | |
| 1579 | 6.4 | 6.0 | 6.2 | 10.4 | 10.1 | 10.3 | 14.0 | 13.5 | 13.8 | 21.7 | 20.9 | 21.3 | 34.1 | 32.8 | 33.5 |
| 1583 | 5.4 | 5.2 | 5.3 | 10.1 | 9.6 | 9.8 | 15.5 | 14.6 | 14.9 | 25.2 | 24.4 | 24.7 | 40.0 | 40.8 | 40.5 |
| 1584 | 6.8 | 6.5 | 6.8 | 12.3 | 10.9 | 12.0 | 18.6 | 17.4 | 18.3 | 35.5 | 32.0 | 34.6 | 58.2 | 50.7 | 56.4 |
| 1586 | 5.7 | 5.4 | 5.6 | 9.3 | 9.0 | 9.2 | 13.1 | 12.7 | 12.9 | 21.3 | 20.4 | 20.9 | 37.8 | 36.6 | 37.2 |
| 1587 | 5.8 | 5.6 | 5.6 | 9.8 | 9.3 | 9.5 | 13.9 | 13.9 | 13.9 | 23.7 | 22.6 | 23.1 | 39.5 | 37.6 | 38.4 |
| 1588 | 6.4 | 6.0 | 6.2 | 9.2 | 9.5 | 9.4 | 13.1 | 13.5 | 13.4 | 23.8 | 24.4 | 24.2 | 39.3 | 39.6 | 39.5 |
| 1589 | 5.7 | 5.4 | 5.5 | 8.4 | 7.8 | 8.1 | 11.4 | 10.8 | 11.1 | 21.0 | 20.7 | 20.8 | 25.6 | 25.9 | 25.8 |
| 1591 | 6.1 | 5.9 | 6.0 | 9.9 | 9.6 | 9.8 | 13.7 | 14.0 | 13.8 | 22.1 | 22.0 | 22.1 | 35.5 | 35.4 | 35.5 |
| 1593 | 7.0 | 7.1 | 7.1 | 12.4 | 12.9 | 12.7 | 19.0 | 19.6 | 19.4 | 30.1 | 31.3 | 30.9 | 51.6 | 53.8 | 53.1 |
| 1598 | 5.9 | 5.8 | 5.8 | 9.3 | 8.8 | 9.0 | 11.6 | 11.0 | 11.3 | 19.8 | 18.5 | 19.0 | 27.8 | 26.2 | 26.9 |
| 1600 | 6.3 | 5.7 | 6.1 | 10.4 | 9.6 | 10.2 | 14.6 | 13.5 | 14.3 | 23.4 | 21.8 | 23.0 | 38.1 | 36.0 | 37.5 |

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 1): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | 0 MG/KG/DAY | | | | | POSTPARTUM DAY 1 | | | | | | | | |
| 1302 | 7.0 | 6.9 | 6.9 | 7.2 | 6.5 | 5.8 | 6.9 | 6.3 | 6.7 | 6.0 | 6.2 | | | | | | | | | |
| 1304 | 6.3 | 6.5 | 7.2 | 6.8 | 6.4 | 5.7 | 6.4 | 5.8 | 5.8 | 6.5 | 5.6 | 6.4 | | | | | | | | |
| 1306 | 6.4 | 6.2 | 6.4 | 6.4 | 6.6 | 5.6 | 6.3 | 6.0 | 5.8 | 6.1 | 5.6 | 5.4 | 5.8 | 5.9 | 6.2 | 6.3 | | | | |
| 1308 | 5.9 | 6.5 | 6.3 | 6.3 | 6.2 | 6.2 | 6.5 | 6.1 | 6.1 | 5.8 | 6.1 | 6.3 | 5.9 | 5.7 | 6.6 | 5.8 | | | | |
| 1310 | 6.5 | 6.9 | 7.1 | 7.3 | 6.7 | 6.7 | 6.7 | 6.3 | 6.8 | 6.5 | 6.2 | 6.4 | 5.9 | 5.5 | | | | | | |
| 1312 | 8.1 | 8.6 | 8.4 | 7.5 | | | | | | | | | | | | | | | | |
| 1313 | 6.8 | 6.4 | 6.8 | 6.8 | 6.8 | 6.7 | 6.6 | 6.3 | 5.9 | 6.1 | 5.9 | 6.1 | 6.4 | | | | | | | |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1318 | 7.5 | 7.8 | 7.7 | 7.4 | 6.9 | 7.2 | 6.7 | 7.6 | 6.8 | 5.8 | 7.2 | 7.3 | 6.9 | 7.4 | 7.2 | | | | | |
| 1321 | 6.2 | 6.7 | 6.6 | 6.7 | 6.2 | 6.0 | 6.4 | 6.4 | 6.3 | 6.2 | 6.1 | 6.5 | 6.1 | 6.0 | 6.5 | 5.7 | 6.0 | | | |
| 1325 | 6.3 | 6.4 | 7.1 | 6.7 | 7.5 | 6.0 | 6.6 | 6.9 | 6.0 | 7.3 | 6.5 | | | | | | | | | |
| 1328 | 6.1 | 6.2 | 6.6 | 6.2 | 6.1 | 5.6 | 6.5 | 6.1 | 5.8 | 6.1 | 5.8 | 6.0 | 6.1 | | | | | | | |
| 1330 | 6.7 | 6.8 | 6.5 | 6.8 | 6.3 | 6.9 | 6.3 | 6.3 | 6.2 | 6.2 | 6.0 | 6.5 | 6.4 | 6.7 | 6.5 | 6.3 | | | | |
| 1331 | 6.8 | 5.4 | 6.1 | 6.0 | 5.7 | 6.1 | 6.7 | 5.9 | 6.7 | 6.0 | 6.1 | 6.2 | 5.6 | 6.4 | 6.2 | 5.8 | | | | |
| 1334 | 7.2 | 7.3 | 7.3 | 7.1 | 7.3 | 7.1 | 6.9 | 6.5 | 6.2 | | | | | | | | | | | |
| 1335 | 6.9 | 6.1 | 6.9 | 6.6 | 6.6 | 6.2 | 5.9 | 5.9 | 6.2 | 6.0 | 6.1 | 6.0 | | | | | | | | |
| 1336 | 6.8 | 7.4 | 7.4 | 6.5 | 7.1 | 7.0 | 7.6 | 7.1 | 7.2 | 6.7 | 6.5 | 6.5 | 7.2 | 7.2 | 6.8 | | | | | |
| 1338 | 6.6 | 6.4 | 6.3 | 5.8 | 6.4 | 6.7 | 6.2 | 6.6 | 6.5 | 6.3 | 6.6 | 5.9 | 6.8 | 6.5 | 6.3 | 5.7 | 6.3 | | | |
| 1340 | 6.7 | 6.0 | 6.3 | 5.8 | 6.6 | 7.0 | 6.5 | 6.5 | 6.5 | 5.3 | 6.0 | 5.8 | 5.5 | 6.3 | | | | | | |
| 1341 | 7.1 | 7.1 | 7.5 | 7.3 | 6.7 | 6.8 | 6.6 | 6.0 | 7.0 | 6.6 | 7.0 | 6.9 | | | | | | | | |
| 1342 | 6.6 | 6.4 | 6.2 | 6.1 | 6.1 | 6.2 | 6.7 | 6.1 | 6.3 | 5.7 | 5.7 | 5.7 | 5.6 | 5.9 | 6.2 | 5.8 | | | | |
| 1344 | 7.1 | 7.4 | 6.9 | 6.8 | 6.7 | 7.1 | 7.3 | 6.3 | 6.6 | 6.7 | 6.4 | 7.2 | 7.1 | 6.8 | 5.6 | | | | | |
| 1345 | 7.6 | 6.5 | 7.3 | 7.6 | 7.5 | MS | 6.7 | 6.8 | 6.3 | 7.2 | 7.0 | 6.2 | 6.1 | 5.8 | 6.7 | FS | | | | |
| 1346 | 6.4 | 6.3 | 6.2 | 6.2 | 6.2 | 6.0 | 5.6 | 6.1 | 5.7 | 5.8 | | | | | | | | | | |
| 1348 | 5.9 | 6.8 | 5.7 | 5.9 | 6.5 | 6.8 | MS | 6.2 | 6.7 | 5.8 | 6.8 | 6.7 | 4.9 | 5.5 | 6.4 | FS | | | | |
| 1350 | 6.1 | 6.0 | 6.7 | 6.1 | 5.3 | 5.4 | 5.9 | 7.0 | 6.9 | 6.5 | 4.8 | 6.0 | 6.8 | 6.8 | 5.5 | 4.9 | 5.6 | | | |
| 1353 | 6.0 | 6.5 | 7.4 | 6.7 | 5.5 | 5.5 | 6.1 | 6.1 | 6.2 | 6.4 | 6.0 | 5.7 | 6.1 | FU | | | | | | |
| 1355 | 6.6 | 6.7 | 7.0 | 6.9 | 6.7 | 6.5 | 6.4 | 6.3 | 6.5 | 6.3 | 6.3 | 6.8 | 6.4 | 6.4 | 6.7 | | | | | |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | |
| 1359 | 6.4 | 6.7 | 5.7 | 6.2 | 6.5 | 6.3 | 6.1 | 5.9 | 6.1 | 6.0 | 6.2 | 5.7 | 6.1 | FS | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 2): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | 1 MG/KG/DAY | | | | | POSTPARTUM DAY 1 | | | | | | | | |
| 1362 | 6.8 | 6.4 | 6.7 | 6.3 | 6.5 | 5.9 | 6.1 | | | | | | | | | | | | | |
| 1363 | 5.7 | 6.3 | 6.3 | 6.3 | 5.6 | 6.0 | 6.1 | 5.5 | 5.6 | 6.2 | 4.7 | 5.0 | 6.6 | 5.6 | 6.0 | 6.1 | 5.6 | FS | | |
| 1364 | 5.5 | 5.6 | 5.1 | 5.6 | 5.0 | 5.3 | 5.9 | 5.1 | 5.5 | 5.2 | 5.3 | 4.5 | 5.1 | 5.0 | 5.4 | | | | | |
| 1367 | 6.6 | 7.4 | 7.0 | 7.4 | 6.6 | 6.7 | 7.0 | 6.8 | 6.4 | 6.7 | 6.6 | 6.2 | 7.0 | | | | | | | |
| 1368 | 6.6 | 5.7 | 6.7 | 7.1 | 6.7 | 6.6 | 6.5 | 6.0 | 5.8 | 5.2 | 6.0 | 6.3 | 5.4 | 5.7 | 7.2 | | | | | |
| 1371 | 6.3 | 7.2 | 6.5 | 6.4 | 6.7 | 6.4 | 6.5 | 6.7 | 6.6 | 6.6 | 6.6 | 6.3 | 6.1 | 6.3 | 6.7 | 6.4 | 6.4 | | | |
| 1375 | 6.4 | 6.9 | 7.2 | 6.7 | 6.4 | 6.6 | 6.4 | 6.6 | 6.5 | 6.4 | 6.1 | 5.5 | 5.5 | 6.3 | | | | | | |
| 1376 | 6.4 | 6.6 | 6.2 | 6.7 | 6.2 | 6.0 | 5.8 | 6.2 | 5.8 | 5.8 | MS | MS | 6.6 | 5.9 | 6.3 | 6.1 | 5.4 | | | |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1379 | 6.4 | 6.2 | 6.6 | 7.0 | 6.8 | 6.5 | 5.9 | 6.8 | 6.3 | 6.7 | 6.5 | 6.4 | | | | | | | | |
| 1381 | 7.6 | 7.9 | 7.0 | 8.2 | 7.1 | 7.6 | 7.4 | 6.8 | 6.5 | 6.8 | 6.5 | 6.7 | | | | | | | | |
| 1382 | 6.1 | 6.0 | 6.0 | 6.9 | 6.3 | 5.7 | 5.8 | 5.8 | 5.9 | 5.6 | 5.5 | 5.6 | 5.9 | | | | | | | |
| 1383 | 5.4 | 6.3 | 7.0 | 6.6 | 6.2 | 6.8 | 6.1 | 6.0 | 5.7 | 6.7 | 6.0 | | | | | | | | | |
| 1387 | 7.3 | 6.9 | 7.1 | 6.7 | 6.6 | 7.0 | 6.8 | 6.7 | 6.9 | 6.1 | 6.3 | 7.2 | 6.8 | 6.4 | 6.1 | 6.0 | FS | | | |
| 1389 | 6.3 | 6.0 | 6.2 | 6.3 | 6.0 | 5.2 | 6.1 | 5.6 | 5.2 | 5.2 | 5.7 | 5.4 | 5.0 | 5.3 | 5.4 | 5.4 | | | | |
| 1392 | 5.5 | 5.6 | 6.5 | 6.2 | 6.1 | 6.1 | 5.8 | 5.7 | 5.8 | 5.5 | 5.6 | 5.9 | 5.1 | 5.8 | 5.7 | 5.4 | 5.4 | | | |
| 1393 | 7.0 | 7.3 | 6.5 | 6.4 | 6.0 | MS | 6.4 | 6.5 | 6.6 | 6.6 | 5.4 | 5.3 | | | | | | | | |
| 1397 | 7.8 | 7.5 | 7.3 | 8.1 | 6.8 | 7.6 | 7.7 | 7.1 | 7.4 | 7.4 | 8.1 | 6.9 | | | | | | | | |
| 1399 | 7.1 | 7.2 | 7.1 | 6.7 | 6.5 | 6.8 | 7.3 | 7.3 | 6.1 | 6.4 | | | | | | | | | | |
| 1401 | 6.9 | 6.9 | 6.2 | 7.0 | 7.0 | 7.1 | 6.0 | 6.1 | 6.7 | 6.9 | 6.5 | 6.6 | | | | | | | | |
| 1404 | 5.7 | 6.2 | 6.4 | 6.4 | 6.8 | 5.0 | 5.7 | 6.4 | 6.0 | 6.2 | 6.4 | 5.6 | 5.4 | 6.0 | 5.7 | | | | | |
| 1407 | 6.5 | 6.2 | 6.1 | 6.5 | 6.3 | 6.8 | 7.2 | 6.6 | 5.6 | 6.3 | 6.0 | 6.4 | 6.1 | 5.8 | 6.3 | | | | | |
| 1409 | 6.2 | 6.1 | 5.9 | 6.0 | 6.2 | 6.0 | 5.8 | 5.8 | 5.4 | 5.8 | 5.7 | 6.3 | | | | | | | | |
| 1410 | 5.7 | 6.0 | 5.9 | 5.7 | 6.0 | 6.0 | 6.7 | 5.7 | 6.2 | 6.2 | 6.2 | 5.2 | 6.3 | 5.8 | 6.2 | 5.4 | 4.5 | | | |
| 1413 | 6.5 | 6.4 | 6.6 | 6.4 | 6.9 | 6.7 | 6.3 | 6.0 | 5.9 | 6.1 | 5.5 | 6.5 | 5.4 | | | | | | | |
| 1415 | 6.5 | 6.4 | 6.7 | 6.6 | 6.7 | 6.9 | 6.6 | 5.8 | 6.0 | 5.8 | 5.9 | 6.8 | 6.0 | | | | | | | |
| 1416 | 6.2 | 6.7 | 6.1 | 6.4 | 6.0 | 6.6 | 6.6 | 6.4 | 6.5 | 6.5 | 6.8 | 6.5 | 6.8 | 6.3 | | | | | | |
| 1418 | 6.6 | 6.6 | 6.4 | 6.0 | 6.6 | 6.0 | 5.9 | 6.0 | 6.1 | 6.2 | 5.8 | 6.0 | 6.3 | 6.2 | 5.7 | 6.0 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 3): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | 3 MG/KG/DAY | | | | | POSTPARTUM DAY 1 | | | | | | | | |
| 1421 | 7.3 | 6.3 | 6.6 | 6.8 | 6.6 | 6.8 | 7.1 | 6.5 | 6.8 | 6.6 | 6.2 | 6.9 | 5.9 | 6.2 | 6.4 | FD 1 | FD 1 | | | |
| 1424 | 5.9 | 5.8 | 5.4 | 5.4 | 5.4 | 5.1 | 5.4 | 5.3 | 5.6 | 5.4 | 5.4 | 5.2 | 4.9 | 4.9 | 5.0 | 5.1 | 5.3 | | | |
| 1426 | 6.8 | 6.5 | 6.7 | 6.9 | 7.1 | 6.7 | 6.3 | 6.2 | 5.9 | 6.1 | 6.4 | 6.6 | 6.2 | | | | | | | |
| 1428 | 7.0 | 6.3 | 7.2 | 6.8 | 7.0 | 6.9 | 5.8 | 5.6 | 6.1 | 6.8 | 6.0 | 6.7 | 6.4 | 6.6 | 6.2 | | | | | |
| 1430 | 6.2 | 7.2 | 6.7 | 6.7 | 6.6 | 7.0 | 5.7 | 6.1 | 6.0 | 6.2 | 7.0 | 5.8 | 6.1 | 5.9 | 6.5 | 6.4 | 5.6 | | | |
| 1431 | 6.4 | 6.6 | 5.6 | 6.8 | 6.3 | 6.4 | 6.6 | 6.5 | 5.9 | MD 1 | 6.6 | 6.6 | 6.1 | 6.4 | 6.2 | 6.9 | | | | |
| 1433 | 6.2 | 6.1 | 6.1 | 5.6 | 5.9 | 5.4 | 6.4 | 6.2 | 6.7 | 6.7 | 6.0 | 6.0 | 5.5 | 6.2 | 5.8 | 5.8 | 6.0 | 5.6 | | |
| 1436 | 5.8 | 6.5 | 6.6 | 6.4 | 6.8 | 6.9 | 6.2 | 6.0 | 5.8 | 5.8 | 5.9 | 5.6 | | | | | | | | |
| 1437 | 6.4 | 5.9 | 5.5 | 6.2 | 6.4 | 6.0 | 6.2 | 6.7 | 5.1 | 6.1 | 6.2 | 6.0 | 6.1 | 5.7 | 5.5 | 5.8 | | | | |
| 1439 | 6.7 | 6.9 | 7.1 | 6.7 | 6.6 | 6.5 | 6.2 | 6.4 | 6.9 | FD 1 | FS | FS | | | | | | | | |
| 1442 | 8.7 | 8.2 | 8.0 | 8.3 | 8.3 | 8.0 | 7.4 | | | | | | | | | | | | | |
| 1443 | 6.4 | 6.4 | 6.3 | 6.6 | 6.4 | 6.5 | 6.8 | 5.1 | 6.1 | 6.4 | 6.5 | 6.1 | 6.0 | 6.0 | | | | | | |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1448 | 6.6 | 7.4 | 6.8 | 6.6 | 7.3 | 6.1 | MS | MS | 6.4 | 6.1 | 6.0 | 6.0 | 5.9 | 6.5 | 6.7 | 6.5 | | | | |
| 1450 | 5.8 | 6.6 | 5.7 | 6.3 | 6.2 | 6.4 | 5.6 | 5.6 | 6.3 | 5.9 | 6.6 | 5.9 | 6.0 | 5.8 | | | | | | |
| 1452 | 5.8 | 5.4 | 5.7 | 5.5 | 5.8 | 5.5 | 5.3 | 5.4 | 5.5 | 4.5 | 5.4 | 5.2 | 4.7 | 4.9 | | | | | | |
| 1455 | 6.2 | 5.7 | 5.9 | 5.8 | 5.9 | 6.1 | 6.0 | 6.4 | 5.4 | 5.2 | 5.9 | 5.5 | 5.2 | 5.8 | 5.9 | | | | | |
| 1456 | 7.2 | 6.9 | 7.1 | 7.1 | 6.9 | 6.6 | | | | | | | | | | | | | | |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1459 | 6.8 | 6.0 | 6.0 | 6.1 | 6.2 | 6.4 | 6.2 | 6.8 | 6.3 | 5.9 | 6.4 | 6.0 | 5.5 | 5.9 | | | | | | |
| 1461 | 7.0 | 6.5 | 7.2 | 6.6 | 7.2 | 6.0 | 6.7 | 6.7 | 7.1 | 6.6 | 6.6 | | | | | | | | | |
| 1463 | 6.4 | 6.5 | 6.0 | 6.5 | 6.9 | 6.5 | 6.9 | MS | 5.9 | 5.9 | 5.9 | 6.5 | 5.9 | 5.9 | FS | | | | | |
| 1465 | 6.6 | 7.3 | 6.9 | 6.6 | 6.7 | 7.1 | 6.8 | 6.4 | 7.1 | 7.0 | 6.5 | 6.3 | 6.9 | 6.1 | 7.0 | 6.7 | | | | |
| 1468 | 5.9 | 5.9 | 6.1 | 5.7 | 6.0 | 4.7 | 5.7 | 5.3 | 5.4 | 5.5 | 5.7 | 5.8 | 5.6 | 5.8 | 5.5 | 5.8 | | | | |
| 1469 | 6.3 | 6.5 | 6.8 | 6.0 | 5.9 | 5.9 | 6.3 | 7.0 | 6.6 | 6.3 | 6.3 | 6.8 | | | | | | | | |
| 1472 | 8.7 | 8.8 | 8.5 | 7.7 | 7.8 | 8.5 | 7.6 | 7.6 | 7.7 | 8.2 | | | | | | | | | | |
| 1474 | 6.7 | 6.3 | 6.0 | 6.5 | 7.0 | 6.7 | 6.0 | 6.5 | 6.5 | 6.8 | 6.4 | 6.3 | 6.5 | 6.6 | | | | | | |
| 1476 | 6.0 | 5.7 | 5.6 | 6.2 | 6.0 | 6.4 | 6.1 | MD 1 | 6.0 | 5.4 | 5.3 | 6.1 | 6.1 | 5.3 | 5.9 | 5.7 | 5.3 | | | |
| 1477 | 5.9 | 5.8 | 5.0 | 5.0 | 6.1 | 4.9 | 5.1 | 6.2 | 5.9 | 4.8 | 6.1 | 5.9 | 4.9 | 5.7 | 5.2 | 5.3 | 5.5 | | | |
| 1480 | 8.0 | 7.6 | 7.5 | 8.0 | 7.7 | 7.4 | 7.2 | 7.3 | 7.5 | 7.1 | 7.4 | 7.6 | 6.5 | | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 4): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | 10 MG/KG/DAY | | | | | POSTPARTUM DAY 1 | | | | | | | | |
| 1482 | 7.2 | 7.2 | 7.1 | 7.3 | 7.0 | 6.9 | 6.3 | 5.9 | 6.9 | 7.3 | 7.1 | 7.1 | 6.9 | 6.7 | FD 1 | FS | | | | |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1486 | 7.1 | 7.3 | 7.7 | 6.8 | 7.4 | 7.4 | 6.5 | 7.2 | 6.5 | 6.7 | 7.3 | 6.7 | 6.2 | 7.1 | 6.7 | | | | | |
| 1488 | 6.1 | 7.2 | 6.3 | 6.0 | 6.0 | 6.7 | 6.5 | 7.2 | 6.1 | 6.5 | 6.2 | 6.2 | 5.7 | 6.1 | 5.6 | | | | | |
| 1490 | 8.5 | 7.5 | 8.1 | 8.9 | 7.1 | 6.6 | 8.5 | 7.5 | 6.2 | 7.7 | | | | | | | | | | |
| 1491 | 5.9 | 6.1 | 5.9 | 6.0 | 5.7 | 5.9 | 4.8 | 6.2 | 5.9 | 5.6 | 5.8 | 6.0 | 5.9 | 4.9 | UU | | | | | |
| 1494 | 6.2 | 6.6 | 6.9 | 6.6 | 7.0 | 6.7 | 6.6 | 6.9 | MD 1 | 6.4 | 5.6 | 6.7 | 4.9 | 6.2 | | | | | | |
| 1496 | 6.6 | 5.7 | 6.7 | 6.4 | 6.2 | 6.8 | 5.9 | 6.0 | 6.3 | 6.5 | 6.3 | 6.1 | 6.5 | | | | | | | |
| 1497 | 6.9 | 7.2 | 6.9 | 7.0 | 6.8 | 6.8 | 6.6 | 7.3 | 6.8 | 6.5 | 7.4 | | | | | | | | | |
| 1500 | 6.3 | 6.0 | 6.5 | 6.8 | 5.9 | 5.2 | 5.9 | 6.3 | 6.3 | 6.3 | 6.1 | 6.2 | 6.4 | 6.0 | FS | | | | | |
| 1502 | 6.3 | 6.6 | 6.7 | 6.2 | 5.5 | 5.6 | 6.0 | 5.8 | 6.5 | 5.7 | 5.7 | 6.2 | 5.5 | | | | | | | |
| 1505 | 6.6 | 6.1 | 6.2 | 6.1 | 6.7 | 6.6 | 6.0 | 6.3 | 6.1 | 6.1 | 5.7 | 6.0 | 5.9 | 6.6 | 5.7 | 6.3 | | | | |
| 1507 | 5.9 | 5.6 | 5.3 | 5.4 | 5.6 | 5.4 | 5.4 | 5.7 | 4.9 | 5.8 | 5.5 | 4.8 | 5.3 | 5.5 | 5.4 | 5.5 | | | | |
| 1508 | 6.2 | 7.0 | 6.4 | 6.4 | 5.6 | 5.4 | 5.9 | 5.6 | 5.6 | 5.3 | 5.4 | 6.8 | 5.9 | | | | | | | |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1513 | 7.0 | 6.5 | 6.7 | 7.3 | 6.0 | 7.2 | 7.1 | 6.8 | 6.9 | 6.7 | 6.4 | 6.6 | 7.0 | MS | | | | | | |
| 1514 | 6.7 | 6.5 | 6.5 | 6.8 | 6.0 | 6.6 | 6.0 | 5.6 | 6.2 | 5.7 | 5.9 | 6.0 | 6.3 | 6.3 | 5.7 | 6.4 | 6.2 | | | |
| 1516 | 6.8 | 7.1 | 7.0 | 6.9 | 6.7 | 7.1 | 6.3 | 6.4 | 7.4 | 7.2 | 6.8 | 6.7 | 6.7 | | | | | | | |
| 1517 | 6.3 | 6.0 | 5.5 | 5.4 | 5.5 | 6.0 | 5.9 | 6.1 | 5.8 | 5.6 | 5.6 | 5.9 | 5.6 | 5.5 | 5.4 | | | | | |
| 1519 | 5.9 | 6.3 | 6.7 | 6.4 | 5.8 | 6.4 | 6.4 | 6.2 | 6.5 | 5.5 | 5.0 | 6.1 | 6.3 | 5.3 | 5.6 | 5.3 | | | | |
| 1521 | 7.0 | 7.7 | 6.3 | 7.4 | 7.5 | 7.0 | 6.7 | 6.6 | 7.2 | 6.7 | 7.1 | 6.8 | | | | | | | | |
| 1523 | 6.4 | 6.3 | 6.6 | 6.2 | 6.3 | 6.6 | 4.6 | MD 1 | 4.6 | 5.9 | 6.2 | 6.6 | | | | | | | | |
| 1524 | 8.4 | 8.9 | | | | | | | | | | | | | | | | | | |
| 1527 | 6.5 | 6.9 | 6.5 | 6.7 | 6.3 | 6.3 | 6.8 | 6.3 | 4.4 | 6.6 | 6.5 | 5.7 | 5.6 | 6.4 | 6.0 | 5.5 | 6.0 | | | |
| 1528 | 7.1 | 7.6 | 6.6 | 7.0 | 7.3 | 7.0 | 6.3 | 6.6 | 6.5 | 6.5 | | | | | | | | | | |
| 1531 | 6.6 | 7.2 | 6.5 | 6.2 | 7.0 | 6.3 | 6.7 | 6.9 | MS | 4.9 | 6.2 | 5.8 | 5.9 | 6.3 | FS | | | | | |
| 1533 | 5.0 | 5.5 | 5.7 | 6.2 | 5.7 | 5.5 | 5.4 | 5.3 | 5.9 | 5.4 | 5.8 | 5.7 | 2.9 | 5.3 | 5.3 | 5.9 | 5.0 | 5.7 | FD 1 | |
| 1534 | 6.9 | 7.2 | 7.8 | 7.6 | 6.8 | 7.4 | 7.3 | 7.2 | 7.0 | 6.6 | 6.5 | 6.8 | | | | | | | | |
| 1537 | 6.2 | 6.6 | 6.9 | 5.6 | 6.4 | 6.7 | 6.3 | 6.6 | 6.6 | 6.5 | 5.8 | 6.1 | 4.9 | 6.3 | FS | | | | | |
| 1539 | 6.9 | 6.6 | 6.1 | 6.7 | 6.4 | 6.4 | 6.4 | 6.7 | 5.8 | 6.5 | 6.3 | 6.4 | 6.5 | 6.5 | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 5): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | 30 MG/KG/DAY | | | | | POSTPARTUM DAY 1 | | | | | | | | |
| 1541 | 5.8 | 5.8 | 6.2 | 6.4 | 5.7 | 5.7 | 5.2 | 6.1 | 5.6 | 5.4 | 5.4 | 5.8 | 5.7 | 5.3 | | | | | | |
| 1544 | 5.1 | 7.3 | 6.6 | 6.7 | 6.1 | 6.3 | 6.3 | 6.4 | 6.2 | 6.4 | 6.2 | 6.5 | 6.6 | FS | | | | | | |
| 1545 | 6.2 | 6.6 | 5.3 | 6.3 | 6.6 | 6.6 | 6.5 | 6.5 | 5.8 | 7.0 | 5.0 | 6.0 | 4.6 | 6.3 | 6.1 | 6.2 | 6.2 | 6.6 | 6.6 | |
| 1546 | 5.9 | 5.6 | 5.7 | 4.9 | 5.9 | 5.5 | 6.0 | 5.1 | 5.0 | 5.2 | 5.9 | 5.4 | 5.3 | 5.3 | 5.7 | | | | | |
| 1548 | 5.5 | 5.4 | 5.1 | 5.2 | 5.1 | 5.2 | 5.7 | 5.6 | 5.0 | 5.0 | 5.0 | 5.4 | 5.0 | FS | | | | | | |
| 1550 | 6.3 | 6.6 | 6.6 | 6.9 | 6.8 | 5.8 | 6.4 | 6.4 | 6.0 | 5.7 | 5.6 | 5.9 | | | | | | | | |
| 1552 | 5.6 | 6.8 | 5.5 | 6.4 | 5.9 | 7.4 | 6.7 | 6.4 | 5.9 | 6.0 | 5.4 | 6.2 | 6.0 | 5.9 | | | | | | |
| 1555 | 6.9 | 6.1 | 6.0 | 6.2 | 5.4 | 7.0 | 6.5 | 5.8 | 5.3 | 5.6 | 5.4 | 5.4 | 5.8 | 4.9 | 5.3 | | | | | |
| 1557 | 7.0 | 6.6 | 7.0 | 6.4 | 6.8 | 6.3 | 6.4 | 6.4 | 6.7 | 6.8 | 6.3 | 6.4 | 6.6 | | | | | | | |
| 1558 | 6.8 | 6.4 | 6.2 | 6.9 | 6.8 | 6.2 | 6.8 | 6.6 | 6.3 | 6.1 | 6.5 | 6.8 | 6.4 | 6.4 | 6.5 | 6.6 | | | | |
| 1560 | 5.8 | 5.7 | 5.5 | 6.0 | 5.9 | 6.1 | 6.0 | 5.7 | 5.8 | 5.3 | 5.3 | 5.7 | 5.2 | 5.7 | 5.3 | | | | | |
| 1564 | 6.2 | 6.1 | 6.8 | 6.6 | 5.4 | 6.0 | 6.2 | 6.1 | 5.1 | 5.7 | 5.5 | 5.8 | 5.9 | | | | | | | |
| 1565 | 6.3 | 5.7 | 6.3 | 6.3 | 6.2 | 6.4 | 5.5 | 5.6 | 6.0 | 5.6 | 5.8 | 6.0 | | | | | | | | |
| 1566 | 6.2 | 6.2 | 5.6 | 5.7 | 5.5 | 6.2 | 6.5 | 6.2 | 6.1 | 5.9 | 5.6 | 5.6 | 5.3 | 6.2 | 6.1 | | | | | |
| 1568 | 7.3 | 4.7 | 7.5 | 7.2 | 7.9 | 7.1 | 5.8 | 6.9 | 6.7 | 6.5 | 6.9 | 6.2 | 5.9 | | | | | | | |
| 1571 | 5.6 | 5.8 | 5.0 | 5.1 | 5.9 | 5.9 | 5.3 | 5.3 | 4.8 | 5.1 | 5.3 | 5.1 | 5.3 | | | | | | | |
| 1573 | 6.2 | 7.1 | 6.1 | 6.2 | 6.8 | 6.7 | 6.5 | 6.6 | 6.0 | 5.6 | 6.3 | 5.8 | 5.7 | 6.3 | 6.1 | | | | | |
| 1576 | 6.6 | 5.8 | 5.8 | 5.6 | 5.5 | 5.6 | 5.6 | 5.9 | 6.1 | 5.3 | 5.7 | 5.9 | 5.8 | | | | | | | |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1579 | 6.5 | 6.6 | 6.3 | 5.8 | 6.4 | 6.9 | 6.2 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.4 | 6.0 | 6.1 | | | | | |
| 1583 | 5.7 | 5.2 | 5.7 | 5.1 | 5.4 | 4.8 | 5.2 | 5.0 | 5.4 | 5.1 | 5.4 | 5.2 | | | | | | | | |
| 1584 | 6.9 | 6.9 | 6.7 | 6.5 | | | | | | | | | | | | | | | | |
| 1586 | 5.4 | 5.9 | 4.9 | 5.8 | 5.8 | 6.2 | 6.0 | 5.4 | 5.0 | 5.7 | 5.6 | 5.2 | 5.7 | | | | | | | |
| 1587 | 6.2 | 5.6 | 5.3 | 6.2 | 5.5 | 5.7 | 5.4 | 5.5 | 5.6 | 5.5 | 5.7 | | | | | | | | | |
| 1588 | 6.3 | 5.9 | 6.7 | 6.7 | 6.3 | 6.3 | 6.0 | 6.5 | 5.7 | 5.8 | 6.6 | 5.8 | 5.5 | | | | | | | |
| 1589 | 5.7 | 5.7 | 5.5 | 5.9 | 5.6 | 5.8 | 5.4 | 5.0 | 5.2 | 5.0 | 5.3 | 6.0 | 5.1 | 6.0 | | | | | | |
| 1591 | 6.3 | 6.4 | 6.0 | 6.1 | 6.2 | 4.9 | 6.1 | 6.5 | 6.3 | 6.0 | 6.1 | 6.0 | 6.7 | 4.7 | | | | | | |
| 1593 | 7.0 | 7.0 | 7.6 | 6.5 | 7.8 | 6.6 | | | | | | | | | | | | | | |
| 1598 | 5.9 | 5.6 | 6.3 | 6.0 | 6.1 | 6.0 | 5.6 | 6.0 | 6.0 | 5.9 | 5.4 | 6.2 | 5.6 | 5.4 | 5.5 | 5.8 | 6.2 | | | |
| 1600 | 6.2 | 7.1 | 5.9 | 6.3 | 6.6 | 6.3 | 6.5 | 6.0 | 6.1 | 6.0 | MD 1 | 6.0 | 5.5 | 5.6 | 5.8 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 6): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | 0 MG/KG/DAY | | | | | POSTPARTUM DAY 5 | | | | | | | | |
| 1302 | 11.6 | 12.9 | 11.5 | 11.0 | 11.7 | 11.2 | 11.4 | 11.2 | 10.9 | 10.6 | 7.4 | | | | | | | | | |
| 1304 | 12.2 | 11.6 | 10.3 | 12.6 | 11.8 | 11.3 | 10.7 | 8.3 | 11.5 | 10.6 | 10.2 | 11.7 | | | | | | | | |
| 1306 | 9.5 | 10.3 | 9.0 | 9.5 | 10.4 | 9.6 | 9.7 | 9.8 | 11.0 | 9.9 | 10.2 | 8.8 | 8.8 | 10.2 | 9.9 | 10.2 | | | | |
| 1308 | 8.4 | 7.8 | 8.1 | 9.0 | 8.2 | 8.1 | 8.3 | 9.3 | 8.3 | 8.1 | 8.7 | 7.9 | 9.2 | 7.8 | 9.4 | 8.6 | | | | |
| 1310 | 10.6 | 10.9 | 10.8 | 10.3 | 10.1 | 10.4 | 11.0 | 10.9 | 11.2 | 9.5 | 9.5 | 10.8 | 10.4 | 10.6 | | | | | | |
| 1312 | 14.2 | 13.5 | 13.6 | 14.9 | | | | | | | | | | | | | | | | |
| 1313 | 11.2 | 10.3 | 11.2 | 11.0 | 10.5 | 10.1 | 11.1 | 10.5 | 10.6 | 9.9 | 10.4 | 10.7 | 11.0 | | | | | | | |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1318 | 12.0 | 11.0 | 11.9 | 12.5 | 13.3 | 13.5 | 11.4 | 12.8 | MM 2 | 12.1 | 13.0 | 13.0 | 10.6 | 12.0 | 12.2 | | | | | |
| 1321 | 8.3 | 9.0 | 8.5 | 9.5 | 9.2 | 7.4 | 9.6 | 8.9 | 8.0 | 8.2 | 9.0 | 8.4 | 8.8 | 8.5 | 8.4 | 9.1 | 8.6 | | | |
| 1325 | 9.9 | 10.3 | 11.0 | 11.6 | 10.7 | 11.5 | 10.2 | 9.7 | 11.3 | 10.9 | 10.2 | | | | | | | | | |
| 1328 | 9.9 | 9.4 | 10.3 | 9.9 | 8.9 | 9.8 | 10.3 | 10.2 | 9.4 | 9.0 | 9.4 | 9.5 | 9.4 | | | | | | | |
| 1330 | 8.6 | 9.1 | 9.0 | 9.0 | 8.4 | 9.1 | 8.1 | 8.1 | 9.0 | 8.7 | 7.3 | 8.1 | 8.6 | 8.2 | 7.9 | 9.0 | | | | |
| 1331 | 10.3 | 9.5 | 9.2 | 8.4 | 8.6 | 7.4 | 8.8 | 8.4 | 9.1 | 8.6 | 9.4 | 7.8 | 8.2 | 8.2 | 7.7 | 8.8 | | | | |
| 1334 | 10.3 | 11.4 | 11.2 | 11.2 | 11.3 | 11.4 | 10.0 | 10.5 | 10.7 | | | | | | | | | | | |
| 1335 | 10.0 | 9.7 | 10.0 | 9.8 | 9.3 | 10.1 | 9.5 | 9.5 | 9.4 | 9.6 | 9.4 | 8.9 | | | | | | | | |
| 1336 | 10.5 | 10.7 | 10.4 | 10.8 | 10.0 | 10.2 | 10.6 | 10.6 | 10.2 | 10.0 | 10.7 | 11.3 | 10.7 | 10.9 | 8.8 | | | | | |
| 1338 | 10.1 | 11.2 | 10.2 | 9.2 | 10.3 | 11.2 | 10.3 | 10.9 | 11.4 | 10.2 | 9.1 | 9.9 | 9.1 | 9.3 | 10.5 | 11.1 | 9.5 | | | |
| 1340 | 10.8 | 11.1 | 10.4 | 11.2 | 11.4 | 10.7 | 10.5 | 10.8 | 10.8 | 9.3 | 10.6 | 10.2 | 10.6 | 9.5 | | | | | | |
| 1341 | 12.3 | 10.8 | 11.0 | 11.2 | 9.8 | 11.3 | 10.8 | 10.0 | 11.2 | 10.8 | 9.9 | 12.1 | | | | | | | | |
| 1342 | 10.6 | 10.9 | 9.5 | 10.9 | 9.6 | 10.9 | 11.0 | 10.1 | 9.2 | 9.6 | 9.6 | 9.6 | 9.2 | 8.6 | 9.7 | 10.5 | | | | |
| 1344 | 10.7 | 11.5 | 10.3 | 10.8 | 10.9 | 10.9 | 10.0 | 9.3 | 10.0 | 9.5 | 11.1 | 10.5 | 10.3 | 10.1 | 8.4 | | | | | |
| 1345 | 10.3 | 11.0 | 11.1 | 10.2 | MD 4 | MS | 8.8 | 9.5 | 9.4 | 11.0 | 10.3 | 10.2 | 9.5 | 10.3 | 10.2 | FS | | | | |
| 1346 | 11.1 | 12.1 | 10.7 | 11.0 | 10.7 | 11.0 | 10.3 | 9.9 | 10.4 | 11.7 | | | | | | | | | | |
| 1348 | 8.8 | 8.7 | 9.3 | 8.6 | 9.7 | 9.1 | MS | 9.8 | 9.1 | 9.7 | 10.0 | 10.0 | 6.9 | 8.3 | 7.5 | FS | | | | |
| 1350 | 8.7 | 9.1 | 8.8 | 8.5 | 7.6 | 9.4 | 8.3 | 9.5 | 9.3 | 8.5 | 7.6 | 8.1 | 8.4 | 7.2 | 7.8 | 8.9 | 8.0 | | | |
| 1353 | 10.4 | 12.3 | 11.4 | 9.8 | 10.6 | 11.2 | 11.6 | 9.4 | 10.5 | 10.8 | 10.6 | 10.8 | 10.0 | FU | | | | | | |
| 1355 | 10.6 | 10.0 | 9.7 | 9.4 | 9.9 | 9.8 | 10.6 | 10.4 | 9.8 | 9.0 | 9.4 | 9.7 | 9.6 | 10.2 | 9.4 | | | | | |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | |
| 1359 | 9.1 | 9.5 | 10.0 | 9.5 | 8.6 | 9.6 | 9.2 | 9.4 | 9.0 | 9.2 | 8.9 | 9.5 | 9.2 | FS | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 7): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | 1 MG/KG/DAY | | | | | | POSTPARTUM DAY 5 | | | | | | | |
| 1362 | 11.4 | 12.1 | 12.1 | 12.2 | 10.9 | 11.5 | 12.0 | | | | | | | | | | | | | |
| 1363 | 8.3 | 9.0 | 8.0 | 8.8 | 8.8 | 9.0 | 8.0 | 9.3 | 8.3 | 9.2 | 9.7 | 7.2 | 9.3 | 7.8 | 7.3 | 8.8 | FD 4 | FS | | |
| 1364 | 8.1 | 9.3 | 9.2 | 9.7 | 9.8 | 8.8 | 8.9 | 9.2 | 9.2 | 7.6 | 9.4 | 9.2 | 8.5 | 8.8 | 7.7 | | | | | |
| 1367 | 10.6 | 10.9 | 11.2 | 11.2 | 11.6 | 11.2 | 11.7 | 10.5 | 10.3 | 11.2 | 10.8 | 10.7 | 10.9 | | | | | | | |
| 1368 | 10.8 | 11.0 | 10.5 | 11.5 | 10.8 | 9.9 | 12.2 | 10.5 | 9.6 | 9.9 | 8.9 | 9.9 | 11.7 | 10.6 | 11.1 | | | | | |
| 1371 | 7.0 | 8.5 | 7.6 | 8.0 | 8.7 | 9.8 | 9.3 | 10.1 | 10.0 | 8.9 | 9.6 | 9.3 | 9.0 | 8.3 | 10.2 | 9.1 | 8.1 | | | |
| 1375 | 10.0 | 10.6 | 10.0 | 10.1 | 10.1 | 10.9 | 9.9 | 10.1 | 10.5 | 9.2 | 8.5 | 10.2 | 9.8 | 7.6 | | | | | | |
| 1376 | 9.5 | 9.1 | 9.3 | 9.7 | 8.4 | 8.3 | 9.7 | 9.5 | 9.1 | 8.7 | MS | MS | 9.3 | 8.5 | 10.1 | 8.5 | 9.7 | | | |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1379 | 11.6 | 11.8 | 10.9 | 10.9 | 10.7 | 10.1 | 9.8 | 10.0 | 10.5 | 9.8 | 9.9 | 10.1 | | | | | | | | |
| 1381 | 11.8 | 12.6 | 11.7 | 11.8 | 12.6 | 13.2 | 11.0 | 11.1 | 11.4 | 10.1 | 12.1 | 11.1 | | | | | | | | |
| 1382 | 11.4 | 9.8 | 10.2 | 9.4 | 10.0 | 9.4 | 9.8 | 8.7 | 9.0 | 9.4 | 8.5 | 9.9 | 8.4 | | | | | | | |
| 1383 | 11.1 | 9.0 | 11.1 | 10.4 | 11.3 | 11.2 | 9.7 | 10.5 | 9.8 | 11.3 | 10.8 | | | | | | | | | |
| 1384 | 12.8 | 11.5 | 11.7 | 11.7 | 11.9 | MM 4 | 11.3 | 11.4 | 10.9 | 11.0 | 10.9 | 11.5 | 11.2 | | | | | | | |
| 1387 | 11.2 | 9.8 | 9.5 | 10.8 | 10.4 | 10.1 | 10.9 | 10.3 | 10.5 | 10.3 | 9.5 | 10.2 | 8.7 | 9.5 | 10.6 | 10.3 | FS | | | |
| 1389 | 8.3 | 7.2 | 8.0 | 7.2 | 9.6 | 8.4 | 8.8 | 9.0 | 8.5 | 8.3 | 8.0 | 7.5 | 7.6 | 8.2 | 8.2 | 7.7 | | | | |
| 1392 | 7.6 | 9.7 | 8.0 | 9.5 | 8.5 | 8.4 | 8.0 | 9.3 | 8.7 | 7.1 | 7.6 | 8.0 | 8.1 | 8.1 | 7.4 | 7.7 | 7.5 | | | |
| 1393 | 11.2 | 12.0 | 10.8 | 10.4 | 11.7 | MS | 11.1 | 9.4 | 11.0 | 11.3 | 9.8 | 9.8 | | | | | | | | |
| 1397 | 11.3 | 12.2 | 12.0 | 13.4 | 11.8 | 12.5 | 11.3 | 11.7 | 11.5 | 12.4 | 12.7 | 13.2 | | | | | | | | |
| 1399 | 12.5 | 12.6 | 11.9 | 12.6 | 11.1 | 12.2 | 12.9 | 11.8 | 11.1 | 11.5 | | | | | | | | | | |
| 1401 | 11.7 | 12.0 | 10.8 | 11.2 | 11.2 | 12.0 | 10.4 | 11.2 | 10.2 | 11.7 | 11.2 | 11.6 | | | | | | | | |
| 1404 | 10.5 | 10.3 | 10.4 | 9.0 | 10.8 | 9.4 | 9.8 | 9.7 | 10.4 | 10.9 | 10.7 | 9.8 | 10.2 | 10.4 | 8.7 | | | | | |
| 1407 | 9.2 | 7.4 | 9.5 | 8.8 | 9.6 | 9.0 | 7.4 | 9.6 | 6.2 | 9.2 | 8.8 | 8.3 | 9.6 | 8.9 | 8.7 | | | | | |
| 1409 | 10.5 | 10.1 | 9.8 | 10.1 | 9.9 | 10.5 | 9.7 | 9.9 | 9.9 | 9.6 | 10.4 | 10.4 | | | | | | | | |
| 1410 | 10.4 | 9.9 | 9.5 | 9.1 | 8.7 | 10.4 | 9.5 | 8.1 | 9.8 | 9.5 | 9.9 | 10.4 | 9.5 | 8.6 | 9.7 | 9.4 | FM 5 | | | |
| 1413 | 9.0 | 9.9 | 9.7 | 9.0 | 9.3 | 9.3 | 9.5 | 8.9 | 8.1 | 8.4 | 8.0 | 8.6 | 8.9 | | | | | | | |
| 1415 | 8.9 | 9.8 | 9.1 | 9.7 | 9.3 | 9.6 | 9.4 | 8.5 | 9.1 | 8.8 | 8.9 | 8.8 | 8.5 | | | | | | | |
| 1416 | 9.7 | 8.5 | 9.7 | 8.9 | 9.4 | 8.9 | 8.8 | 8.9 | 9.2 | 10.5 | 8.0 | 9.9 | 10.0 | 9.0 | | | | | | |
| 1418 | 7.2 | 8.6 | 9.6 | 9.1 | 9.8 | 9.7 | 7.0 | 7.9 | 8.1 | 6.4 | 6.8 | 8.9 | 9.5 | 9.2 | FD 3 | FM 3 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 8): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | 3 MG/KG/DAY | | | | | POSTPARTUM DAY 5 | | | | | | | | |
| 1421 | 11.0 | 9.8 | 9.3 | 9.5 | 9.7 | 10.1 | 10.0 | 10.3 | 10.0 | 8.7 | 9.1 | 9.8 | 9.5 | 9.9 | 9.8 | FD 1 | FD 1 | | | |
| 1424 | 7.8 | 8.0 | 8.9 | 7.6 | 8.5 | 7.8 | 8.0 | 8.9 | 9.1 | 7.9 | 8.0 | 8.0 | 8.4 | 7.7 | 7.9 | 7.1 | 7.7 | | | |
| 1426 | 10.2 | 10.5 | 10.7 | 10.2 | 9.8 | 9.4 | 10.5 | 9.8 | 8.5 | 10.3 | 8.6 | 9.2 | 10.6 | | | | | | | |
| 1428 | 10.9 | 10.7 | 10.8 | 9.6 | 10.6 | 10.0 | 9.6 | 10.4 | 9.3 | 8.9 | 9.7 | 9.5 | 10.4 | 10.0 | 9.8 | | | | | |
| 1430 | 9.0 | 9.3 | 9.4 | 9.1 | 9.5 | 10.0 | 8.1 | 8.3 | 8.9 | 8.9 | 8.7 | 9.2 | 8.1 | 9.5 | 8.5 | 9.1 | 8.8 | | | |
| 1431 | 10.7 | 11.5 | 10.5 | 10.0 | 10.6 | 9.9 | 10.9 | 10.1 | 8.3 | MD 1 | 10.9 | 10.8 | 9.8 | 9.9 | 10.2 | FM 2 | | | | |
| 1433 | 10.1 | 9.7 | 10.1 | 8.8 | 10.5 | 9.6 | 9.1 | 8.7 | 9.1 | 8.3 | 9.5 | 9.1 | 9.7 | 8.2 | 8.3 | 9.2 | 7.5 | 10.6 | | |
| 1436 | 10.3 | 10.6 | 10.9 | 9.9 | 9.8 | 10.3 | 10.4 | 11.0 | 9.8 | 9.8 | 9.7 | 10.0 | | | | | | | | |
| 1437 | 9.4 | 9.8 | 9.6 | 10.8 | 7.9 | 9.5 | 8.9 | 10.5 | 8.7 | 9.1 | 9.5 | 8.3 | 9.5 | 9.1 | 9.5 | 9.4 | | | | |
| 1439 | 11.3 | 11.1 | 11.5 | 11.2 | 11.2 | 11.7 | 11.1 | 10.8 | 10.5 | FD 1 | FS | FS | | | | | | | | |
| 1442 | 14.9 | 14.2 | 13.2 | 15.0 | 14.1 | 14.6 | 13.7 | | | | | | | | | | | | | |
| 1443 | 10.3 | 10.4 | 10.3 | 9.5 | 10.3 | 8.1 | 10.4 | 10.5 | 9.9 | 10.5 | 9.2 | 10.3 | 10.0 | 10.0 | | | | | | |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1448 | 11.1 | 11.3 | 11.1 | 9.4 | 11.1 | 10.7 | MS | MS | 9.1 | 9.6 | 9.5 | 8.8 | 8.4 | 10.4 | 9.5 | 8.5 | | | | |
| 1450 | 8.9 | 7.5 | 9.2 | 8.9 | 9.4 | 8.8 | 8.4 | 8.1 | 9.2 | 8.1 | 8.4 | 9.5 | 7.9 | 8.6 | | | | | | |
| 1452 | 8.4 | 8.5 | 8.9 | 8.8 | 8.8 | 8.6 | 7.1 | 8.9 | 7.1 | 8.1 | 7.4 | 7.6 | 9.1 | FM 2 | | | | | | |
| 1455 | 10.1 | 10.4 | 6.5 | 10.6 | 9.4 | 9.9 | MD 5 | MM 3 | 6.6 | 9.3 | 6.5 | 9.5 | 9.1 | 9.6 | 9.6 | | | | | |
| 1456 | 12.8 | 12.9 | 13.3 | 13.6 | 13.0 | 12.4 | | | | | | | | | | | | | | |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1459 | 11.5 | 11.1 | 9.7 | 10.4 | 11.0 | 11.7 | 10.5 | 11.0 | MD 2 | 11.4 | 10.8 | 9.9 | 10.1 | 11.2 | | | | | | |
| 1461 | 8.9 | 10.3 | 9.8 | 10.7 | 10.9 | 10.0 | 10.5 | 11.1 | 11.0 | 9.3 | 11.7 | | | | | | | | | |
| 1463 | 11.2 | 10.3 | 10.9 | 10.4 | 8.9 | 10.1 | 10.7 | MS | 9.8 | 10.4 | 10.0 | 9.4 | 9.8 | 9.4 | FS | | | | | |
| 1465 | 11.2 | 11.6 | 10.6 | 10.0 | 10.4 | 11.8 | 10.9 | 9.4 | 10.5 | 11.1 | 9.4 | 10.4 | 10.6 | 11.6 | 11.9 | 11.0 | | | | |
| 1468 | 10.2 | 10.4 | 10.2 | 9.6 | 9.7 | 9.9 | 8.9 | 9.2 | 9.2 | 8.9 | 9.7 | 6.5 | 8.7 | 8.7 | 10.4 | 10.1 | | | | |
| 1469 | 9.9 | 9.4 | 9.3 | 9.7 | 10.1 | 11.0 | 9.1 | 9.8 | 10.5 | 9.3 | 10.7 | 9.5 | | | | | | | | |
| 1472 | 14.0 | 14.5 | 13.9 | 13.9 | 14.5 | 12.6 | 12.6 | 13.3 | 13.3 | 13.0 | | | | | | | | | | |
| 1474 | 9.9 | 11.0 | 10.0 | 9.4 | 10.1 | 10.2 | 9.8 | 11.2 | 9.8 | 10.1 | 10.0 | 9.1 | 9.6 | 10.2 | | | | | | |
| 1476 | 7.6 | 7.5 | 7.8 | 8.9 | 8.9 | 7.7 | 8.2 | MD 1 | 8.2 | 6.9 | 7.9 | 8.1 | 7.2 | 7.7 | 7.0 | 6.9 | 7.9 | | | |
| 1477 | 8.2 | 8.5 | 8.8 | 7.0 | 9.4 | 10.0 | 7.4 | 8.7 | 7.7 | 9.0 | 8.6 | 8.7 | 8.8 | 7.9 | 7.9 | 6.9 | 9.1 | | | |
| 1480 | 12.0 | 12.1 | 12.2 | 11.5 | 12.3 | 12.6 | 10.9 | 10.4 | 11.2 | 12.5 | 11.1 | 12.0 | 11.1 | | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 9): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | POSTPARTUM DAY 5 | | | | | | | | |
| 1482 | 10.7 | 10.3 | 11.5 | 10.7 | 10.8 | 10.9 | 10.1 | 9.4 | 10.4 | 10.0 | 9.5 | 9.9 | 11.0 | 10.3 | FD 1 | FS | | | | |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1486 | 9.3 | 9.8 | 11.0 | 10.0 | 11.1 | 10.8 | 11.1 | 9.4 | 11.1 | 8.9 | 10.2 | 9.9 | 9.3 | 11.0 | 10.3 | | | | | |
| 1488 | 10.7 | 11.9 | 11.0 | 10.6 | 10.7 | 10.1 | 11.8 | 9.2 | 10.5 | 9.8 | 10.2 | 9.6 | 9.6 | 10.5 | 8.6 | | | | | |
| 1490 | 14.8 | 15.3 | 15.0 | 13.5 | 15.4 | 12.8 | 11.7 | 11.5 | 13.9 | 14.0 | | | | | | | | | | |
| 1491 | 10.4 | 9.2 | 10.8 | 9.7 | 9.4 | 6.9 | 7.7 | 10.3 | 10.2 | 9.4 | 9.9 | 8.8 | 10.0 | 9.1 | UU | | | | | |
| 1494 | 10.3 | 10.4 | 10.9 | 9.8 | 9.6 | 9.3 | 10.2 | 10.7 | MD 1 | 9.9 | 9.5 | 9.8 | 9.6 | 8.0 | | | | | | |
| 1496 | 9.6 | 9.1 | 10.3 | 8.1 | 9.6 | 9.6 | 8.5 | 9.9 | 9.4 | 10.7 | 10.1 | 9.1 | 8.9 | | | | | | | |
| 1497 | 10.8 | 11.9 | 11.2 | 11.6 | 10.8 | 11.6 | 11.6 | 12.0 | 10.4 | 10.7 | 10.3 | | | | | | | | | |
| 1500 | 9.1 | 9.9 | 10.3 | 8.7 | 9.2 | 7.5 | 7.8 | 9.3 | 9.5 | 8.3 | 8.9 | 9.2 | 8.7 | 9.0 | FS | | | | | |
| 1502 | 11.4 | 11.8 | 11.0 | 11.3 | 10.2 | 11.2 | 10.8 | 11.1 | 10.4 | 10.2 | 9.5 | 10.1 | FD 2 | | | | | | | |
| 1505 | 9.4 | 9.0 | 9.4 | 10.1 | 8.7 | 8.5 | 9.9 | 8.0 | 9.5 | 8.9 | 8.4 | 8.4 | 8.6 | 8.6 | 8.8 | 8.3 | | | | |
| 1507 | 7.1 | 7.4 | 8.8 | 7.4 | 8.5 | 7.3 | 7.5 | 7.8 | 7.9 | 7.3 | 7.9 | 7.3 | 8.0 | 7.8 | 6.7 | 8.2 | | | | |
| 1508 | 11.6 | 8.9 | 12.2 | 11.6 | 7.8 | 10.2 | 10.8 | 10.6 | 11.7 | 10.0 | 9.7 | 9.1 | FD 2 | | | | | | | |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1513 | 10.3 | 9.9 | 9.9 | 10.2 | 10.2 | 10.4 | 9.0 | 10.7 | 10.4 | 9.2 | 10.6 | 10.3 | 10.7 | MS | | | | | | |
| 1514 | 9.5 | 9.6 | 9.3 | 8.8 | 7.4 | 10.5 | 8.9 | 10.2 | 8.4 | 7.6 | 9.4 | 8.0 | 9.1 | 8.7 | 8.8 | 9.4 | 9.2 | | | |
| 1516 | 11.6 | 11.7 | 12.9 | 11.4 | 10.9 | 11.4 | 10.2 | 12.1 | 10.4 | 11.1 | 12.0 | 10.2 | 11.2 | | | | | | | |
| 1517 | 10.2 | 9.7 | 9.0 | 10.2 | 10.1 | 10.2 | 8.7 | 10.5 | 8.9 | 9.2 | 10.0 | 9.9 | 9.8 | 9.0 | 8.3 | | | | | |
| 1519 | 9.5 | 9.8 | 10.5 | 9.8 | 9.9 | 9.4 | 9.6 | 9.8 | 8.7 | 7.6 | 9.9 | 8.1 | 9.4 | 8.3 | 7.4 | 8.1 | | | | |
| 1521 | 10.7 | 10.6 | 10.2 | 10.8 | 10.4 | 11.0 | 11.1 | 11.1 | 9.6 | 10.3 | 10.7 | 10.1 | | | | | | | | |
| 1523 | 10.9 | 11.4 | 11.3 | 10.6 | 7.6 | 11.1 | 11.1 | MD 1 | 10.7 | 7.5 | 11.6 | 10.6 | | | | | | | | |
| 1524 | 14.8 | 15.2 | | | | | | | | | | | | | | | | | | |
| 1527 | 9.6 | 9.6 | 8.4 | 9.2 | 9.5 | 8.8 | 10.1 | 10.2 | 8.9 | 8.9 | MM 5 | 9.1 | 8.7 | 8.1 | 9.0 | 8.3 | 8.4 | | | |
| 1528 | 11.5 | 10.4 | 10.5 | 11.9 | 10.8 | 10.8 | 9.9 | 10.6 | 9.6 | 10.9 | | | | | | | | | | |
| 1531 | 10.9 | 11.1 | 10.8 | 10.7 | 11.2 | 11.2 | 10.0 | 10.3 | MS | 10.6 | 11.0 | 9.7 | 10.1 | 7.3 | FS | | | | | |
| 1533 | 8.3 | 8.5 | 9.2 | 9.6 | 7.9 | 9.7 | 9.3 | 8.1 | 9.0 | 9.0 | 8.6 | 4.0 | 9.5 | 9.1 | 9.5 | 8.7 | 8.7 | 7.8 | FD 1 | |
| 1534 | 10.5 | 10.2 | 10.1 | 9.7 | 10.5 | 9.4 | 8.9 | 8.3 | 7.7 | 11.6 | 10.3 | 10.6 | | | | | | | | |
| 1537 | 10.0 | 10.2 | 9.7 | 10.3 | 10.0 | 9.6 | 10.4 | 10.2 | 10.4 | 8.8 | 8.8 | 9.1 | 7.5 | 9.0 | FS | | | | | |
| 1539 | 11.3 | 10.9 | 11.9 | 10.3 | 10.5 | 10.9 | 11.4 | 11.2 | 12.3 | 10.4 | 11.8 | 10.9 | 11.0 | 11.9 | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 10): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | 30 MG/KG/DAY | | | | | POSTPARTUM DAY 5 | | | | | | | | |
| 1541 | 10.4 | 10.1 | 10.6 | 10.4 | 9.5 | 9.9 | 8.6 | 9.0 | 9.7 | 9.9 | 9.8 | 10.0 | 9.6 | 9.7 | | | | | | |
| 1544 | 12.2 | 10.8 | 8.6 | 11.3 | 11.5 | 12.3 | 11.2 | 11.1 | 10.4 | 11.1 | 10.8 | 10.7 | FM 2 | FS | | | | | | |
| 1545 | 10.4 | 9.9 | 10.7 | 9.1 | 9.6 | 10.1 | 8.5 | 9.0 | 8.2 | 9.0 | 7.7 | 9.3 | 6.7 | 8.8 | 9.8 | 8.5 | 9.4 | 9.1 | FD 3 | |
| 1546 | 10.2 | 10.0 | 10.2 | 10.0 | 8.8 | 9.0 | 8.3 | 8.5 | 9.0 | 9.4 | 8.3 | 8.9 | 9.5 | 9.0 | 9.5 | | | | | |
| 1548 | 9.1 | 8.9 | 9.0 | 7.7 | 8.4 | 8.9 | 7.8 | 8.5 | 8.6 | 8.5 | 8.9 | 8.9 | 9.2 | FS | | | | | | |
| 1550 | 11.8 | 9.8 | 10.4 | 10.3 | 10.2 | 9.6 | 10.2 | 10.2 | 9.8 | 9.5 | 8.3 | 9.6 | | | | | | | | |
| 1552 | 9.8 | 9.3 | 8.3 | 9.3 | 8.4 | 8.5 | 9.3 | 8.6 | 8.9 | 7.8 | 9.3 | 8.3 | 8.4 | 8.6 | | | | | | |
| 1555 | 8.6 | 10.3 | 8.8 | 7.9 | 9.5 | 9.2 | 9.0 | 7.8 | 7.5 | 8.1 | 8.0 | 9.5 | 8.2 | 9.2 | 8.4 | | | | | |
| 1557 | 11.5 | 11.3 | 11.3 | 11.4 | 10.8 | 10.9 | 11.3 | 10.9 | 10.9 | 10.9 | 11.1 | 11.2 | 11.3 | | | | | | | |
| 1558 | 10.8 | 10.1 | 10.7 | 9.8 | 9.8 | 9.6 | 9.5 | 9.3 | 9.3 | 10.4 | 10.5 | 10.6 | 9.6 | 10.4 | 9.8 | 10.2 | | | | |
| 1560 | 7.7 | 7.6 | 6.9 | 8.1 | 6.7 | 8.6 | 6.3 | 5.9 | 7.1 | 7.9 | 6.2 | 7.8 | 7.2 | 7.2 | 7.1 | | | | | |
| 1564 | 10.2 | 9.8 | 9.2 | 10.0 | 11.1 | 10.7 | 9.3 | 9.5 | 9.6 | 10.1 | 8.9 | 9.1 | 8.3 | | | | | | | |
| 1565 | 11.1 | 11.6 | 11.2 | 11.1 | 10.6 | 10.7 | 10.2 | 9.9 | 9.6 | 8.8 | 10.5 | 10.3 | | | | | | | | |
| 1566 | 9.2 | 9.5 | 7.4 | 9.1 | 8.5 | 7.0 | 8.2 | 8.6 | 9.0 | 8.5 | 7.8 | 9.2 | 8.4 | 8.5 | 8.4 | | | | | |
| 1568 | 11.3 | 7.4 | 11.8 | 10.6 | 11.7 | 9.0 | 10.8 | 10.5 | 10.6 | 10.4 | 9.5 | 10.7 | 10.0 | | | | | | | |
| 1571 | 8.1 | 7.3 | 7.9 | 8.2 | 8.3 | 7.9 | 6.7 | 7.8 | 7.5 | 7.4 | 7.6 | 7.3 | 7.3 | | | | | | | |
| 1573 | 11.9 | 10.0 | 10.6 | 8.9 | 10.4 | 9.9 | 10.6 | 9.4 | 9.5 | 9.9 | 9.0 | 9.6 | 8.8 | 9.9 | 10.2 | | | | | |
| 1576 | 6.8 | 7.1 | 6.8 | 7.6 | 7.7 | 7.6 | 7.5 | 7.1 | 7.6 | 7.7 | 7.2 | 7.0 | 7.4 | | | | | | | |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1579 | 10.2 | 11.2 | 11.2 | 11.0 | 9.8 | 9.5 | 10.9 | 9.6 | 9.3 | 10.7 | 10.2 | 11.1 | 10.2 | 8.7 | 10.4 | | | | | |
| 1583 | 9.6 | 10.2 | 9.8 | 10.7 | MM 3 | 10.0 | 8.1 | 10.5 | 9.9 | 9.6 | 9.3 | 9.7 | | | | | | | | |
| 1584 | 12.6 | 12.4 | 11.9 | 10.9 | | | | | | | | | | | | | | | | |
| 1586 | 9.0 | 9.6 | 8.8 | 9.2 | 8.7 | 9.9 | 10.0 | 9.5 | 8.6 | 9.4 | 8.4 | 8.6 | 9.4 | | | | | | | |
| 1587 | 10.4 | 8.1 | 10.7 | 9.0 | 10.8 | 9.3 | 9.1 | 9.2 | 9.6 | 9.2 | 9.3 | | | | | | | | | |
| 1588 | 8.8 | 9.3 | 8.9 | 9.9 | 9.7 | 9.9 | 9.3 | 10.4 | 9.6 | 9.5 | 8.4 | 9.3 | 9.1 | | | | | | | |
| 1589 | 8.6 | 8.4 | 8.2 | 8.5 | 8.8 | 8.2 | 8.4 | 7.5 | 7.0 | 8.8 | 8.1 | 7.8 | 7.6 | 7.6 | | | | | | |
| 1591 | 10.5 | 9.3 | 10.8 | 9.9 | 9.9 | 9.5 | 7.6 | 10.7 | 10.7 | 9.8 | 8.5 | 10.5 | 9.6 | 9.9 | | | | | | |
| 1593 | 12.5 | 12.3 | 14.3 | 12.6 | 13.0 | 11.6 | | | | | | | | | | | | | | |
| 1598 | 9.4 | 9.4 | 8.5 | 9.7 | 9.0 | 9.7 | 9.2 | 9.0 | 7.6 | 8.4 | 8.6 | 9.4 | 8.5 | 9.9 | 8.0 | 9.6 | 8.6 | | | |
| 1600 | 10.0 | 11.6 | 11.2 | 10.1 | 10.3 | 10.9 | 10.3 | 10.6 | 10.3 | 9.1 | MD 1 | 10.0 | 9.9 | 8.5 | 10.1 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 11): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | 0 MG/KG/DAY | | | | | POSTPARTUM DAY 8 | | | | | | | | |
| 1302 | 16.1 | 17.5 | 15.8 | 15.4 | 16.4 | 16.0 | 14.8 | 11.2 | 15.6 | 16.2 | 16.3 | | | | | | | | | |
| 1304 | 16.9 | 16.9 | 18.6 | 18.4 | 15.4 | 16.9 | 16.0 | 17.2 | 13.0 | 16.4 | 14.8 | 16.1 | | | | | | | | |
| 1306 | 16.0 | 14.5 | 15.3 | 13.2 | 13.1 | 13.2 | 12.5 | 14.6 | 13.4 | 14.0 | 11.9 | 13.8 | 13.6 | 14.1 | 12.9 | 13.2 | | | | |
| 1308 | 12.1 | 12.2 | 12.2 | 11.0 | 13.2 | 11.3 | 12.7 | 10.5 | 12.2 | 11.6 | 11.5 | 11.9 | 10.7 | 10.9 | 10.9 | 12.6 | | | | |
| 1310 | 14.5 | 17.2 | 17.0 | 15.6 | 16.0 | 15.5 | 15.9 | 15.7 | 16.1 | 15.8 | 15.4 | 14.0 | 13.9 | 15.2 | | | | | | |
| 1312 | 20.4 | 22.0 | 22.5 | 21.0 | | | | | | | | | | | | | | | | |
| 1313 | 15.9 | 16.2 | 15.8 | 15.6 | 14.1 | 14.6 | 14.8 | 14.6 | 14.7 | 14.5 | 14.8 | 15.4 | 14.6 | | | | | | | |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1318 | 18.8 | 17.5 | 18.9 | 16.2 | 17.5 | 19.1 | 18.0 | 15.5 | MM 2 | 17.8 | 17.3 | 18.7 | 15.7 | 17.4 | 18.8 | | | | | |
| 1321 | 11.4 | 12.9 | 12.7 | 13.6 | 12.8 | 11.2 | 14.5 | 12.7 | 12.0 | 10.5 | 13.0 | 12.9 | 13.0 | 10.8 | 13.0 | 11.9 | 13.9 | | | |
| 1325 | 16.0 | 16.6 | 15.0 | 14.5 | 14.7 | 15.0 | 15.7 | 14.6 | 15.8 | 16.4 | 14.5 | | | | | | | | | |
| 1328 | 14.1 | 15.0 | 13.4 | 16.0 | 15.7 | 14.6 | 15.4 | 13.2 | 13.7 | 13.7 | 15.0 | 15.1 | 15.0 | | | | | | | |
| 1330 | 11.4 | 12.1 | 11.2 | 10.0 | 12.3 | 11.5 | 12.1 | 12.0 | 10.8 | 11.4 | 10.9 | 10.8 | 10.7 | 10.3 | 11.7 | 9.8 | | | | |
| 1331 | 11.8 | 12.1 | 13.7 | 12.7 | 11.1 | 12.8 | 11.4 | 12.5 | 10.4 | 9.6 | 9.0 | 14.0 | 10.4 | 11.2 | 10.8 | 11.4 | | | | |
| 1334 | 14.3 | 16.1 | 14.6 | 15.9 | 15.1 | 15.7 | 14.8 | 14.5 | 14.9 | | | | | | | | | | | |
| 1335 | 14.4 | 14.2 | 14.9 | 15.5 | 14.9 | 15.1 | 14.1 | 14.1 | 14.6 | 14.8 | 14.6 | 13.3 | | | | | | | | |
| 1336 | 15.7 | 14.7 | 16.1 | 15.9 | 15.4 | 15.1 | 16.0 | 16.7 | 15.7 | 13.6 | 16.5 | 15.5 | 16.0 | 16.1 | 16.5 | | | | | |
| 1338 | 13.0 | 14.8 | 16.9 | 13.9 | 15.5 | 14.2 | 16.8 | 15.0 | 13.6 | 15.6 | 12.8 | 17.0 | 13.5 | 13.8 | 16.1 | 13.8 | 14.9 | | | |
| 1340 | 14.2 | 14.4 | 14.6 | 14.9 | 14.9 | 14.5 | 15.2 | 14.3 | 14.7 | 13.1 | 14.1 | 14.0 | 13.2 | 13.7 | | | | | | |
| 1341 | 15.5 | 15.3 | 16.4 | 17.5 | 16.3 | 16.0 | 16.5 | 13.9 | 15.5 | 15.9 | 14.8 | 16.7 | | | | | | | | |
| 1342 | 15.1 | 13.2 | 15.4 | 13.0 | 14.4 | 15.4 | 14.4 | 15.5 | 15.0 | 13.3 | 10.8 | 13.8 | 13.9 | 14.1 | 12.3 | 13.9 | | | | |
| 1344 | 14.7 | 13.3 | 15.5 | 13.4 | 14.8 | 14.1 | 15.7 | 14.5 | 15.0 | 14.6 | 16.1 | 14.3 | 14.1 | 11.2 | 12.5 | | | | | |
| 1345 | 15.7 | 16.1 | 15.5 | 15.5 | MD 4 | MS | 12.8 | 14.4 | 15.4 | 16.0 | 15.0 | 16.0 | 15.1 | 14.4 | 14.8 | FS | | | | |
| 1346 | 16.5 | 16.2 | 18.2 | 16.6 | 16.1 | 16.9 | 15.8 | 15.7 | 17.5 | 15.7 | | | | | | | | | | |
| 1348 | 12.0 | 13.5 | 13.3 | 13.9 | 12.8 | 14.3 | MS | 13.6 | 14.1 | 14.8 | 13.7 | 14.2 | 11.9 | 12.8 | 10.2 | FS | | | | |
| 1350 | 12.8 | 11.3 | 12.9 | 10.4 | 12.0 | 13.3 | 13.2 | 13.8 | 12.8 | 11.2 | 10.1 | 11.5 | 12.4 | 10.3 | 10.1 | 10.2 | 14.0 | | | |
| 1353 | 13.2 | 14.8 | 11.7 | 13.4 | 12.6 | 12.6 | 11.3 | 12.4 | 12.2 | 13.3 | 12.4 | 12.8 | 12.7 | FU | | | | | | |
| 1355 | 15.2 | 13.5 | 14.1 | 14.7 | 13.4 | 14.8 | 14.3 | 14.2 | 14.6 | 14.2 | 11.7 | 15.8 | 13.5 | 12.4 | 13.4 | | | | | |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | |
| 1359 | 12.6 | 12.9 | 12.4 | 12.3 | 11.5 | 12.6 | 11.6 | 12.2 | 11.9 | 11.6 | 11.7 | 11.7 | 12.4 | FS | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 12): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | 1 MG/KG/DAY | | | | POSTPARTUM DAY 8 | | | | | | | | |
| 1362 | 18.2 | 17.6 | 17.9 | 16.5 | 16.1 | 17.5 | 17.8 | | | | | | | | | | | | | |
| 1363 | 12.3 | 12.9 | 12.9 | 12.9 | 12.6 | 13.6 | 12.3 | 14.5 | 12.9 | 11.8 | 11.3 | 13.1 | 13.7 | 8.3 | 13.9 | 11.8 | FD 4 | FS | | |
| 1364 | 13.3 | 13.6 | 13.7 | 14.5 | 13.6 | 14.4 | 11.4 | 11.4 | 13.7 | 11.7 | 12.9 | 13.3 | 12.2 | 12.6 | 14.4 | | | | | |
| 1367 | 16.6 | 16.1 | 15.6 | 16.5 | 16.8 | 15.3 | 16.3 | 15.2 | 15.1 | 14.9 | 16.0 | 15.3 | 16.0 | | | | | | | |
| 1368 | 14.2 | 15.5 | 17.0 | 15.9 | 16.2 | 15.7 | 15.5 | 16.1 | 14.3 | 15.6 | 14.9 | 15.7 | 14.3 | 14.1 | 17.0 | | | | | |
| 1371 | 13.9 | 13.0 | 10.1 | 13.1 | 11.1 | 10.9 | 11.3 | 9.8 | 12.2 | 13.0 | 13.8 | 10.1 | 11.5 | 13.8 | 12.8 | 13.7 | 10.8 | | | |
| 1375 | 14.1 | 14.4 | 15.1 | 13.0 | 15.1 | 15.2 | 14.6 | 15.0 | 14.6 | 13.8 | 13.7 | 14.5 | 12.1 | 10.1 | | | | | | |
| 1376 | 13.6 | 13.9 | 12.3 | 13.1 | 12.1 | 13.8 | 13.0 | 12.9 | 11.5 | 12.7 | MS | MS | 13.3 | 12.9 | 14.0 | 12.3 | 12.3 | | | |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1379 | 17.2 | 16.1 | 16.3 | 14.6 | 15.6 | 16.1 | 15.1 | 15.4 | 14.8 | 14.8 | 14.1 | 14.8 | | | | | | | | |
| 1381 | 16.3 | 17.0 | 17.1 | 15.5 | 17.4 | 17.9 | 15.6 | 13.1 | 15.4 | 15.1 | 16.7 | 15.6 | | | | | | | | |
| 1382 | 15.4 | 15.5 | 15.5 | 17.1 | 14.8 | 14.9 | 14.3 | 14.3 | 13.0 | 14.9 | 13.0 | 13.4 | 15.2 | | | | | | | |
| 1383 | 16.7 | 16.0 | 13.8 | 15.7 | 16.4 | 16.7 | 14.9 | 15.6 | 16.3 | 17.0 | 15.1 | | | | | | | | | |
| 1384 | 18.3 | 17.5 | 17.3 | 18.3 | 16.1 | MM 4 | 16.8 | 16.8 | 16.3 | 16.7 | 17.3 | 16.8 | 16.3 | | | | | | | |
| 1387 | 13.9 | 15.0 | 15.2 | 15.7 | 14.9 | 13.5 | 15.9 | 14.2 | 13.1 | 15.3 | 15.4 | 13.2 | 14.6 | 13.5 | 14.7 | 13.7 | FS | | | |
| 1389 | 11.5 | 8.4 | 13.1 | 12.9 | 12.9 | 13.9 | 13.4 | MD 7 | 12.1 | 11.3 | 12.6 | 11.4 | 12.6 | 9.9 | 13.2 | 10.0 | | | | |
| 1392 | 12.4 | 11.4 | 11.7 | 13.0 | 11.0 | 13.8 | 12.7 | 11.9 | 12.8 | 11.9 | 10.8 | 11.3 | 10.9 | 12.9 | 11.0 | 10.4 | 10.3 | | | |
| 1393 | 17.7 | 17.3 | 17.9 | 16.2 | 16.4 | MS | 15.4 | 16.9 | 17.0 | 17.1 | 14.6 | 15.5 | | | | | | | | |
| 1397 | 16.8 | 18.8 | 17.9 | 18.3 | 18.4 | 17.0 | 18.0 | 15.8 | 18.0 | 19.0 | 17.1 | 17.1 | | | | | | | | |
| 1399 | 17.7 | 17.4 | 16.6 | 17.4 | 15.4 | 15.1 | 15.9 | 17.4 | 16.5 | 17.4 | | | | | | | | | | |
| 1401 | 14.6 | 16.1 | 16.3 | 16.5 | 16.1 | 15.9 | 16.0 | 16.1 | 15.1 | 14.7 | 17.2 | 16.3 | | | | | | | | |
| 1404 | 13.8 | 13.0 | 15.0 | 12.2 | 11.7 | 12.6 | 12.1 | 13.8 | 11.8 | 13.3 | 12.0 | 13.3 | 12.4 | 11.3 | 13.7 | | | | | |
| 1407 | 12.6 | 15.0 | 14.2 | 12.1 | 12.7 | 11.0 | 13.2 | 13.2 | 12.3 | 14.2 | 14.3 | 11.9 | 10.5 | 14.6 | 13.6 | | | | | |
| 1409 | 14.3 | 14.6 | 14.1 | 14.6 | 13.8 | 13.7 | 13.5 | 13.6 | 13.5 | 13.9 | 15.0 | 14.1 | | | | | | | | |
| 1410 | 14.0 | 13.9 | 13.7 | 14.3 | 12.2 | 14.3 | 15.5 | 13.1 | 12.8 | 13.1 | 15.1 | 14.8 | 14.6 | 11.8 | 13.1 | 14.1 | FM 5 | | | |
| 1413 | 12.6 | 13.5 | 12.6 | 13.1 | 12.5 | 12.8 | 12.2 | 12.2 | 12.0 | 11.6 | 12.5 | 12.7 | 12.2 | | | | | | | |
| 1415 | 12.5 | 14.0 | 13.3 | 13.5 | 12.9 | 13.9 | 12.5 | 12.9 | 12.7 | 12.5 | 12.0 | 12.5 | 12.2 | | | | | | | |
| 1416 | 13.5 | 12.1 | 13.0 | 13.3 | 12.8 | 13.1 | 14.6 | 13.4 | 14.4 | 13.3 | 12.1 | 12.3 | 13.4 | 12.1 | | | | | | |
| 1418 | 13.4 | 13.6 | 15.0 | 15.2 | 15.2 | 10.9 | 14.4 | 14.4 | 13.3 | 11.6 | 8.4 | 7.5 | 12.1 | 9.6 | FD 3 | FM 3 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 13): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | 3 MG/KG/DAY | | | | | POSTPARTUM DAY 8 | | | | | | | | |
| 1421 | 13.5 | 13.9 | 14.2 | 13.8 | 14.6 | 12.7 | 14.0 | 13.9 | 12.7 | 15.6 | 14.2 | 10.7 | 13.8 | 13.7 | 13.4 | FD 1 | FD 1 | | | |
| 1424 | 10.5 | 13.7 | 11.2 | 10.5 | 12.3 | 12.1 | 12.8 | 13.0 | 14.1 | 12.0 | 11.4 | 10.8 | 11.0 | 9.6 | 11.4 | 12.9 | 11.9 | | | |
| 1426 | 14.5 | 14.2 | 12.9 | 12.8 | 14.7 | 14.7 | 14.1 | 13.8 | 13.5 | 15.2 | 12.4 | 11.7 | 13.7 | | | | | | | |
| 1428 | 14.7 | 15.2 | 13.9 | 15.5 | 15.6 | 15.8 | 14.5 | 13.5 | 15.2 | 12.8 | 14.4 | 13.8 | 14.7 | 14.3 | 14.0 | | | | | |
| 1430 | 11.8 | 13.2 | 12.7 | 12.3 | 12.8 | 11.1 | 10.2 | 11.4 | 12.8 | 11.0 | 11.7 | 10.3 | 12.1 | 11.1 | 12.1 | 11.2 | 11.4 | | | |
| 1431 | 12.1 | 15.6 | 14.2 | 15.0 | 15.6 | 15.3 | 14.2 | 14.6 | 16.0 | MD 1 | 14.9 | 14.6 | 13.9 | 15.1 | 14.3 | FM 2 | | | | |
| 1433 | 15.8 | 13.3 | 16.8 | 11.2 | 11.4 | 13.5 | 14.6 | 15.8 | 12.0 | 11.7 | 17.2 | 14.7 | 13.4 | 10.7 | 14.6 | 13.1 | 13.1 | FD 8 | | |
| 1436 | 15.8 | 15.7 | 16.0 | 15.5 | 14.9 | 13.9 | 15.6 | 14.8 | 14.6 | 14.1 | 14.1 | 14.3 | | | | | | | | |
| 1437 | 13.0 | 14.7 | 11.7 | 14.0 | 10.7 | 14.2 | 15.6 | 13.3 | 13.8 | 12.2 | 13.6 | 12.7 | 12.4 | 13.4 | 13.2 | 13.6 | | | | |
| 1439 | 17.7 | 17.1 | 16.6 | 17.7 | 17.6 | 17.9 | 16.4 | 16.9 | 16.2 | FD 1 | FS | FS | | | | | | | | |
| 1442 | 20.7 | 21.0 | 19.2 | 21.3 | 20.1 | 19.9 | 20.0 | | | | | | | | | | | | | |
| 1443 | 15.2 | 15.1 | 14.2 | 15.3 | 14.4 | 11.9 | 14.6 | 15.3 | 14.8 | 13.6 | 14.4 | 14.7 | 14.7 | 14.5 | | | | | | |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1448 | 15.8 | 14.2 | 15.4 | 15.3 | 12.9 | 14.3 | MS | MS | 11.4 | 12.8 | 14.1 | 15.0 | 11.6 | 13.1 | 13.0 | 12.8 | | | | |
| 1450 | 13.7 | 13.1 | 13.0 | 10.8 | 12.5 | 12.1 | 12.4 | 11.0 | 13.2 | 13.0 | 13.3 | 10.3 | 14.5 | 12.3 | | | | | | |
| 1452 | 13.4 | 12.4 | 13.3 | 10.7 | 12.6 | 13.5 | 14.3 | 11.7 | 13.1 | 11.1 | 11.7 | 10.9 | 12.1 | FM 2 | | | | | | |
| 1455 | 16.6 | 13.7 | 16.1 | 15.0 | 14.8 | MM 6 | MD 5 | MM 3 | 13.9 | 13.9 | 14.4 | 14.2 | 14.5 | FM 6 | FD 6 | | | | | |
| 1456 | 19.8 | 19.8 | 19.6 | 18.2 | 18.6 | 17.5 | | | | | | | | | | | | | | |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1459 | 15.4 | 17.5 | 15.9 | 17.4 | 16.2 | 15.9 | 17.1 | 16.4 | MD 2 | 16.7 | 17.6 | 16.4 | 15.4 | 15.6 | | | | | | |
| 1461 | 15.3 | 15.8 | 15.2 | 13.1 | 17.4 | 16.6 | 14.1 | 16.0 | 16.7 | 15.4 | 16.6 | | | | | | | | | |
| 1463 | 13.7 | 15.5 | 15.7 | 15.8 | 13.9 | 14.8 | 12.3 | MS | 12.8 | 13.3 | 13.5 | 13.5 | 13.4 | 13.6 | FS | | | | | |
| 1465 | 14.2 | 16.5 | 15.2 | 13.3 | 14.6 | 15.2 | 14.7 | 16.0 | 15.1 | 12.1 | 13.0 | 15.8 | 14.9 | 14.2 | 16.3 | 15.5 | | | | |
| 1468 | 13.7 | 13.7 | 12.3 | 12.3 | 12.8 | 12.3 | 11.9 | 12.9 | 12.7 | 8.3 | 13.2 | 12.6 | 11.8 | 11.3 | 12.8 | 11.0 | | | | |
| 1469 | 12.7 | 12.8 | 15.0 | 14.3 | 14.0 | 12.6 | 12.8 | 13.6 | 13.7 | 13.2 | 14.4 | 13.9 | | | | | | | | |
| 1472 | 19.0 | 18.6 | 18.7 | 19.2 | 19.4 | 17.5 | 17.7 | 17.1 | 16.6 | 16.6 | | | | | | | | | | |
| 1474 | 14.6 | 15.3 | 13.1 | 13.8 | 13.8 | 12.9 | 14.7 | 13.0 | 14.1 | 12.4 | 14.2 | 12.7 | 14.3 | 14.4 | | | | | | |
| 1476 | 10.2 | 10.7 | 12.4 | 12.0 | 10.7 | 11.9 | 11.4 | MD 1 | 10.1 | 11.4 | 10.4 | 9.3 | 10.2 | 10.1 | 8.9 | 11.1 | 11.9 | | | |
| 1477 | 10.8 | 11.1 | 10.1 | 9.6 | 9.0 | 9.2 | 10.6 | 9.7 | 9.9 | 9.4 | 11.1 | 10.5 | 10.3 | 10.2 | 9.8 | 10.8 | FD 6 | | | |
| 1480 | 17.2 | 16.9 | 17.2 | 15.9 | 15.4 | 15.9 | 18.2 | 16.9 | 16.2 | 17.4 | 15.2 | 16.8 | 15.9 | | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 14): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | POSTPARTUM DAY 8 | | | | | | | | |
| 1482 | 14.5 | 14.4 | 14.9 | 13.9 | 15.2 | 12.7 | 11.5 | 12.5 | 13.8 | 14.6 | 11.0 | 13.5 | 13.5 | 11.8 | FD 1 | FS | | | | |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1486 | 16.1 | 15.8 | 14.9 | 14.7 | 13.1 | 14.7 | 12.9 | 14.5 | 14.8 | 14.6 | 15.3 | 13.0 | 14.9 | 12.4 | 14.2 | | | | | |
| 1488 | 15.5 | 13.5 | 15.9 | 16.1 | 15.3 | 15.6 | 16.4 | 16.8 | 14.7 | 14.2 | 14.2 | 14.6 | 13.7 | 13.8 | 14.3 | | | | | |
| 1490 | 20.5 | 20.8 | 16.4 | 21.5 | 19.5 | 18.4 | 21.6 | 16.7 | 18.5 | 19.7 | | | | | | | | | | |
| 1491 | 13.5 | 16.3 | 12.5 | 15.0 | 14.4 | 11.4 | 14.8 | 13.2 | 9.1 | 15.7 | 11.2 | 13.9 | 14.0 | 14.6 | UU | | | | | |
| 1494 | 14.2 | 13.3 | 14.9 | 14.2 | 14.9 | 13.2 | 13.5 | 14.2 | MD 1 | 13.9 | 11.1 | 13.4 | 13.8 | 12.8 | | | | | | |
| 1496 | 12.5 | 11.6 | 10.7 | 10.5 | 12.7 | 10.5 | 10.6 | 11.3 | 10.2 | 12.7 | 11.6 | 10.5 | 10.9 | | | | | | | |
| 1497 | 17.8 | 16.6 | 17.3 | 16.9 | 16.6 | 17.5 | 17.6 | 16.5 | 16.4 | 17.6 | 16.9 | | | | | | | | | |
| 1500 | 13.7 | 12.6 | 11.3 | 14.1 | 12.8 | 12.2 | 12.6 | 10.2 | 12.0 | 13.5 | 12.4 | 11.9 | 13.0 | 12.6 | FS | | | | | |
| 1502 | 16.9 | 15.9 | 16.7 | 17.1 | 16.0 | 16.6 | 15.0 | 15.2 | 14.9 | 14.6 | 15.3 | 16.7 | FD 2 | | | | | | | |
| 1505 | 13.0 | 13.4 | 11.6 | 13.3 | 11.3 | 11.7 | 10.6 | 11.4 | 11.6 | 10.6 | 11.6 | 12.5 | 12.3 | 11.1 | 13.4 | 12.4 | | | | |
| 1507 | 10.8 | 10.7 | 10.6 | 10.8 | 10.8 | 9.5 | 10.7 | 11.5 | 12.1 | 10.4 | 11.2 | 11.0 | 9.3 | 10.5 | 10.2 | 10.4 | | | | |
| 1508 | 18.1 | 11.9 | 16.6 | 17.3 | 15.7 | 16.5 | 16.2 | 13.3 | 12.1 | 18.0 | 14.0 | 14.4 | FD 2 | | | | | | | |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1513 | 15.2 | 14.5 | 14.1 | 14.5 | 15.3 | 14.4 | 16.1 | 13.3 | 14.7 | 14.3 | 14.5 | 13.6 | 12.4 | MS | | | | | | |
| 1514 | 12.2 | 14.2 | 13.9 | 15.2 | 12.2 | 11.3 | 13.3 | 13.3 | 14.4 | 12.1 | 12.6 | 14.3 | 12.1 | 11.8 | 8.9 | 13.4 | 11.7 | | | |
| 1516 | 16.9 | 15.2 | 14.9 | 17.5 | 16.1 | 17.4 | 16.4 | 16.3 | 15.9 | 15.5 | 17.3 | 13.9 | 16.0 | | | | | | | |
| 1517 | 14.3 | 15.0 | 14.2 | 15.3 | 13.2 | 13.7 | 13.0 | 14.7 | 13.9 | 14.9 | 13.7 | 12.3 | 12.1 | 12.3 | 13.2 | | | | | |
| 1519 | 13.1 | 12.9 | 13.5 | 14.5 | 12.2 | 12.8 | 13.0 | 14.5 | 13.1 | 10.3 | 11.4 | 10.8 | 11.1 | 14.6 | 13.2 | 10.7 | | | | |
| 1521 | 14.6 | 13.8 | 14.8 | 13.7 | 14.8 | 14.7 | 14.9 | 12.3 | 14.3 | 14.7 | 14.7 | 14.3 | | | | | | | | |
| 1523 | 17.1 | 16.5 | 16.9 | 15.9 | 11.2 | 17.1 | 16.2 | MD 1 | 15.3 | 11.3 | 16.6 | 15.6 | | | | | | | | |
| 1524 | 21.4 | 21.6 | | | | | | | | | | | | | | | | | | |
| 1527 | 13.7 | 13.2 | 12.3 | 12.5 | 13.1 | 12.6 | 13.8 | 11.8 | 14.3 | 14.2 | MM 5 | 11.7 | 11.6 | 12.6 | 12.0 | 11.3 | 13.1 | | | |
| 1528 | 13.0 | 13.0 | 12.7 | 13.8 | 12.5 | 13.0 | 12.1 | 12.2 | 12.5 | 11.6 | | | | | | | | | | |
| 1531 | 15.7 | 16.3 | 15.9 | 14.9 | 16.3 | 16.8 | 14.3 | 15.4 | MS | 14.0 | 10.1 | 15.4 | 15.1 | 14.8 | FS | | | | | |
| 1533 | 10.9 | 13.2 | 11.2 | 14.1 | 13.0 | 13.5 | 13.8 | 14.1 | 13.7 | 13.8 | 13.9 | 12.0 | 13.7 | 14.3 | 9.6 | 11.0 | 11.7 | FM 6 | FD 1 | |
| 1534 | 12.4 | 14.3 | 14.0 | 13.8 | 14.2 | 14.2 | 14.4 | 12.1 | 13.7 | 12.6 | 14.6 | 11.5 | | | | | | | | |
| 1537 | 13.9 | 15.2 | 11.3 | 15.1 | 14.2 | 14.3 | 14.2 | 14.2 | 14.1 | 14.5 | 10.2 | 12.4 | 13.6 | 12.7 | FS | | | | | |
| 1539 | 16.3 | 14.9 | 15.8 | 18.7 | 15.4 | 17.5 | 16.8 | 16.4 | 15.2 | 15.5 | 16.9 | 16.1 | 17.5 | 15.5 | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 15): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 8 | | | | | | | |
| 1541 | 14.0 | 14.7 | 14.2 | 14.6 | 13.2 | 12.3 | 13.4 | 12.8 | 13.3 | 14.2 | 13.9 | 13.7 | 12.7 | 14.0 | | | | | | |
| 1544 | 15.7 | 16.6 | 16.5 | 16.0 | 12.0 | 17.3 | 15.8 | 15.9 | 14.0 | 14.9 | 14.9 | 14.3 | FM 2 | FS | | | | | | |
| 1545 | 14.6 | 13.9 | 15.4 | 12.0 | 12.6 | 11.2 | 13.7 | 15.7 | 15.3 | 13.2 | 11.8 | 13.7 | 12.5 | 11.9 | 8.6 | 13.6 | 12.9 | 13.3 | FD 3 | |
| 1546 | 14.8 | 12.4 | 13.4 | 11.9 | 12.1 | 13.4 | 13.8 | 12.1 | 12.4 | 12.3 | 12.6 | 13.2 | 12.9 | 11.5 | 11.5 | | | | | |
| 1548 | 13.4 | 13.1 | 12.1 | 11.7 | 12.8 | 12.2 | 12.0 | 12.9 | 12.6 | 12.8 | 12.5 | 12.7 | 10.8 | FS | | | | | | |
| 1550 | 16.8 | 14.8 | 14.1 | 14.1 | 14.7 | 13.8 | 14.3 | 14.2 | 14.1 | 11.9 | 14.0 | 14.0 | | | | | | | | |
| 1552 | 12.3 | 12.4 | 14.2 | 11.4 | 12.5 | 12.3 | 13.0 | 13.3 | 12.0 | 13.0 | 12.3 | 13.2 | 11.6 | 12.8 | | | | | | |
| 1555 | 13.0 | 12.6 | 14.6 | 12.9 | 11.5 | 12.1 | 13.0 | 12.3 | 11.1 | 12.7 | 11.5 | 11.6 | 11.2 | 12.8 | FD 6 | | | | | |
| 1557 | 15.8 | 16.2 | 15.7 | 14.9 | 15.0 | 15.1 | 14.7 | 15.8 | 15.8 | 16.0 | 15.0 | 15.6 | 14.3 | | | | | | | |
| 1558 | 13.4 | 13.9 | 14.3 | 13.9 | 13.5 | 13.1 | 13.2 | 15.3 | 13.8 | 14.8 | 13.8 | 12.6 | 13.3 | 14.9 | 15.0 | 13.9 | | | | |
| 1560 | 10.8 | 11.7 | 11.6 | 9.3 | 10.6 | 9.6 | MD 7 | 11.1 | 8.3 | 8.1 | 10.4 | 9.7 | 10.4 | 10.8 | 10.8 | | | | | |
| 1564 | 13.7 | 11.8 | 12.8 | 13.8 | 13.1 | 12.7 | 12.5 | 12.7 | 10.4 | 11.8 | 13.5 | 12.2 | 12.8 | | | | | | | |
| 1565 | 15.5 | 15.1 | 14.6 | 16.1 | 15.4 | 15.6 | 12.2 | 14.8 | 13.6 | 14.3 | 14.2 | 14.4 | | | | | | | | |
| 1566 | 12.3 | 12.5 | 12.1 | 11.6 | 10.1 | 10.7 | 12.6 | 10.9 | 12.0 | 10.4 | 13.0 | 11.0 | 10.3 | 11.3 | 12.1 | | | | | |
| 1568 | 16.1 | 14.2 | 15.8 | 16.1 | 14.4 | 12.3 | 11.3 | 15.4 | 14.6 | 13.5 | 15.4 | 13.4 | 14.2 | | | | | | | |
| 1571 | 10.4 | 11.8 | 10.9 | 12.0 | 11.0 | 11.5 | 10.9 | 9.6 | 9.9 | 9.6 | 11.1 | 10.4 | 11.0 | | | | | | | |
| 1573 | 13.9 | 14.5 | 13.5 | 14.9 | 14.8 | 13.5 | 14.7 | 14.0 | 13.0 | 14.5 | 13.6 | 13.3 | 14.5 | 14.3 | 14.2 | | | | | |
| 1576 | 10.8 | 9.6 | 10.3 | 10.6 | 10.9 | 11.0 | MM 8 | MD 7 | 10.6 | 11.6 | 11.2 | 10.1 | 10.6 | | | | | | | |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1579 | 14.3 | 13.2 | 14.6 | 13.9 | 14.0 | 14.7 | 13.1 | 14.3 | 13.9 | 14.0 | 14.5 | 12.6 | 14.3 | 14.0 | 11.2 | | | | | |
| 1583 | 16.4 | 15.1 | 15.6 | 14.8 | MM 3 | 13.2 | 14.9 | 14.7 | 14.9 | 15.0 | 15.1 | 14.7 | | | | | | | | |
| 1584 | 18.3 | 18.4 | 19.0 | 17.4 | | | | | | | | | | | | | | | | |
| 1586 | 11.8 | 14.1 | 13.1 | 13.1 | 12.9 | 13.0 | 13.9 | 13.0 | 12.9 | 12.9 | 12.0 | 12.9 | 12.6 | | | | | | | |
| 1587 | 15.4 | 13.0 | 14.5 | 15.3 | 11.3 | 13.4 | 13.9 | 13.9 | 14.1 | 14.1 | 13.8 | | | | | | | | | |
| 1588 | 13.4 | 13.9 | 12.1 | 13.0 | 13.1 | 13.1 | 13.0 | 13.2 | 13.4 | 14.7 | 14.1 | 14.4 | 12.2 | | | | | | | |
| 1589 | 12.4 | 11.1 | 10.8 | 10.5 | 11.3 | 12.3 | 10.9 | 10.3 | 10.3 | 10.4 | 12.0 | 11.6 | 10.4 | 10.8 | | | | | | |
| 1591 | 13.9 | 15.2 | 13.7 | 14.0 | 14.1 | 14.5 | 10.3 | 13.1 | 14.0 | 14.4 | 14.6 | 14.2 | 12.5 | 14.7 | | | | | | |
| 1593 | 19.0 | 18.9 | 21.4 | 19.7 | 19.8 | 17.5 | | | | | | | | | | | | | | |
| 1598 | 12.3 | 12.7 | 12.1 | 10.7 | 10.2 | 12.3 | 10.9 | 10.9 | 10.8 | 10.7 | 10.3 | 11.0 | 11.4 | 11.5 | 12.1 | 9.6 | 12.2 | | | |
| 1600 | 12.7 | 15.4 | 13.8 | 14.9 | 15.3 | 15.4 | 15.1 | 15.4 | 15.1 | 12.8 | MD 1 | 13.4 | 12.0 | 14.4 | 14.2 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 16): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | 0 MG/KG/DAY | | | | | POSTPARTUM DAY 15 | | | | | | | | |
| 1302 | 28.1 | 29.4 | 28.3 | 27.4 | 28.7 | 26.7 | 27.5 | 28.1 | 27.7 | 20.9 | 28.1 | | | | | | | | | |
| 1304 | 25.6 | 28.7 | 28.9 | 31.2 | 28.0 | 29.0 | 28.7 | 25.9 | 24.7 | 25.7 | 26.7 | 26.1 | | | | | | | | |
| 1306 | 26.3 | 25.1 | 22.3 | 20.7 | 24.0 | 22.7 | 22.2 | 22.1 | 19.7 | 24.4 | 23.6 | 22.8 | 22.5 | 19.5 | 24.0 | 23.3 | | | | |
| 1308 | 22.9 | 20.7 | 23.4 | 21.7 | 21.1 | 22.8 | 21.6 | 19.8 | 23.1 | 19.1 | 22.3 | 22.9 | 23.7 | 25.9 | 25.7 | 19.8 | | | | |
| 1310 | 28.3 | 27.3 | 28.4 | 25.9 | 27.2 | 27.5 | 28.1 | 27.9 | 29.4 | 25.7 | 24.4 | 24.5 | 26.3 | 24.0 | | | | | | |
| 1312 | 38.8 | 35.0 | 39.1 | 39.3 | | | | | | | | | | | | | | | | |
| 1313 | 24.2 | 24.8 | 23.3 | 24.9 | 25.0 | 22.7 | 15.7 | 20.8 | 23.3 | 23.9 | 23.8 | 21.8 | 24.3 | | | | | | | |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1318 | 29.1 | 28.4 | 26.6 | 26.0 | 30.5 | 29.4 | 26.7 | 30.3 | MM 2 | 28.5 | 28.5 | 29.4 | 27.6 | 26.5 | 28.6 | | | | | |
| 1321 | 15.4 | 19.0 | 17.8 | 20.4 | 20.9 | 18.6 | 20.3 | MM11 | 16.4 | 16.0 | 15.0 | 18.1 | 15.9 | 16.9 | 20.7 | 12.4 | FD10 | | | |
| 1325 | 30.0 | 27.7 | 27.2 | 29.8 | 28.1 | 27.9 | 27.4 | 29.7 | 27.4 | 29.6 | 27.2 | | | | | | | | | |
| 1328 | 27.7 | 31.6 | 30.2 | 28.5 | 27.8 | 30.0 | 27.7 | 26.2 | 27.6 | 26.9 | 29.7 | 28.5 | 28.6 | | | | | | | |
| 1330 | 22.5 | 21.5 | 22.1 | 21.3 | 22.2 | 20.0 | 19.8 | 20.1 | 20.0 | 18.3 | 20.6 | 19.2 | 19.9 | 18.7 | 17.0 | 17.0 | | | | |
| 1331 | 20.6 | 24.7 | 22.0 | 19.5 | 23.3 | 21.5 | 24.9 | 20.6 | 23.4 | 21.8 | 20.0 | MM12 | 20.5 | 19.0 | 20.0 | 20.4 | | | | |
| 1334 | 28.4 | 28.1 | 29.1 | 28.3 | 27.4 | 29.1 | 28.8 | 27.9 | 27.8 | | | | | | | | | | | |
| 1335 | 25.1 | 27.0 | 23.1 | 25.9 | 25.3 | 26.2 | 25.1 | 24.4 | 24.2 | 26.5 | 24.6 | 25.3 | | | | | | | | |
| 1336 | 21.8 | 24.4 | 25.2 | 23.7 | 25.7 | 27.1 | 25.5 | 23.6 | 27.1 | 28.1 | 25.8 | 26.1 | 24.5 | 25.4 | 23.4 | | | | | |
| 1338 | 18.4 | 22.9 | 18.4 | 21.4 | 18.8 | 18.2 | 18.8 | 24.7 | 18.8 | 20.5 | 20.2 | 15.3 | 15.6 | 18.7 | 15.8 | 18.4 | 16.2 | | | |
| 1340 | 27.2 | 27.2 | 27.3 | 26.5 | 29.4 | 27.9 | 25.2 | 25.3 | 23.7 | 27.2 | 24.6 | 24.4 | 26.6 | 24.0 | | | | | | |
| 1341 | 27.9 | 29.1 | 28.9 | 28.8 | 28.9 | 28.2 | 25.2 | 30.0 | 26.5 | 26.6 | 28.3 | 27.1 | | | | | | | | |
| 1342 | 25.2 | 25.7 | 22.4 | 25.7 | 21.5 | 19.7 | 22.7 | 25.3 | 24.2 | 20.7 | 16.4 | 20.2 | 20.2 | 19.4 | 20.0 | 21.6 | | | | |
| 1344 | 29.1 | 27.0 | 25.6 | 24.1 | 25.5 | 21.2 | 22.9 | 23.1 | 23.9 | 25.1 | 28.0 | 24.5 | 21.6 | 24.5 | 24.0 | | | | | |
| 1345 | 29.5 | 30.6 | 28.5 | 28.9 | MD 4 | MS | 30.4 | 28.4 | 28.7 | 28.5 | 27.1 | 29.8 | 25.5 | 27.6 | 28.6 | FS | | | | |
| 1346 | 30.5 | 32.7 | 32.7 | 30.5 | 33.9 | 30.5 | 30.2 | 30.0 | 30.4 | 32.7 | | | | | | | | | | |
| 1348 | 27.7 | 27.3 | 26.9 | 27.2 | 25.9 | 26.5 | MS | 25.8 | 24.0 | 26.1 | 25.5 | 25.3 | 20.5 | 26.9 | 28.0 | FS | | | | |
| 1350 | 20.2 | 24.5 | 18.4 | 22.7 | 22.4 | 22.9 | 19.4 | 21.5 | 20.4 | 24.6 | 23.8 | 16.4 | 20.3 | 19.3 | 17.1 | 18.6 | 23.3 | | | |
| 1353 | 23.1 | 24.2 | 25.6 | 23.6 | 24.0 | 25.6 | 25.1 | 23.5 | 23.8 | 22.8 | 24.5 | 22.8 | 23.2 | FU | | | | | | |
| 1355 | 26.5 | 25.4 | 25.9 | 28.2 | 26.7 | 26.2 | 26.3 | 26.4 | 27.0 | 24.8 | 28.4 | 23.0 | 22.4 | 26.5 | 22.8 | | | | | |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | |
| 1359 | 25.0 | 25.8 | 25.9 | 24.8 | 24.4 | 24.3 | 24.0 | 23.3 | 24.9 | 23.7 | 23.9 | 25.0 | 22.5 | FS | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 17): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | 1 MG/KG/DAY | | | | | POSTPARTUM DAY 15 | | | | | | | | |
| 1362 | 34.2 | 34.2 | 33.0 | 33.6 | 33.9 | 31.1 | 33.4 | | | | | | | | | | | | | |
| 1363 | 21.8 | 21.6 | 21.6 | 20.2 | 22.1 | 22.1 | 23.5 | 20.9 | 22.3 | 22.8 | 19.7 | 21.5 | 18.8 | 24.8 | 14.3 | 21.0 | FD 4 | FS | | |
| 1364 | 23.5 | 24.1 | 22.8 | 23.2 | 22.1 | 21.4 | 23.8 | 22.1 | 22.5 | 22.4 | 19.6 | 23.2 | 20.8 | 23.2 | 18.0 | | | | | |
| 1367 | 30.9 | 28.3 | 30.8 | 29.5 | 29.2 | 26.5 | 27.8 | 27.5 | 27.7 | 28.5 | 28.2 | 24.3 | 28.4 | | | | | | | |
| 1368 | 23.6 | 25.8 | 23.9 | 24.2 | 23.5 | 26.6 | 25.1 | 26.3 | 23.2 | 21.8 | 23.8 | 22.8 | 23.9 | 26.6 | 25.6 | | | | | |
| 1371 | 20.1 | 22.2 | 21.5 | 17.1 | 24.0 | 21.1 | 23.8 | 21.9 | 23.1 | 21.9 | 18.1 | 26.1 | 22.8 | 18.3 | 22.8 | 22.3 | FD 9 | | | |
| 1375 | 26.0 | 26.6 | 25.7 | 26.6 | 26.5 | 26.7 | 27.2 | 23.6 | 25.9 | 24.4 | 13.9 | 25.3 | 23.5 | 23.7 | | | | | | |
| 1376 | 21.7 | 21.3 | 22.6 | 23.5 | 20.4 | 22.9 | 22.1 | 21.8 | 22.9 | 24.7 | MS | MS | 20.6 | 22.1 | 24.4 | 22.1 | 22.0 | | | |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1379 | 26.1 | 28.7 | 29.1 | 31.0 | 28.6 | 30.0 | 27.2 | 26.4 | 26.3 | 28.1 | 27.7 | 27.3 | | | | | | | | |
| 1381 | 29.2 | 28.5 | 30.2 | 28.5 | 28.3 | 31.0 | 27.4 | 27.4 | 30.6 | 27.0 | 26.4 | 23.5 | | | | | | | | |
| 1382 | 30.4 | 31.6 | 33.0 | 30.7 | 29.3 | 28.5 | 26.7 | 31.6 | 27.7 | 27.7 | 30.3 | 26.9 | 28.9 | | | | | | | |
| 1383 | 30.3 | 29.8 | 31.1 | 27.8 | 30.5 | 30.0 | 28.2 | 28.2 | 29.6 | 30.8 | 32.3 | | | | | | | | | |
| 1384 | 27.5 | 28.8 | 27.9 | 29.8 | 27.5 | MM 4 | 27.3 | 28.3 | 27.0 | 26.4 | 28.4 | 27.9 | 27.7 | | | | | | | |
| 1387 | 25.2 | 19.3 | 23.7 | 24.7 | 25.1 | 26.5 | 23.4 | 24.7 | 26.9 | 24.7 | 25.6 | 24.1 | 26.6 | 24.8 | 23.0 | 24.1 | FS | | | |
| 1389 | 17.7 | 24.6 | 24.5 | 19.7 | 24.0 | 25.6 | 24.9 | MD 7 | 21.6 | 19.1 | 20.8 | 22.5 | 23.6 | 21.8 | 21.5 | 19.8 | | | | |
| 1392 | 26.8 | 25.5 | 19.2 | 23.6 | 19.8 | 22.4 | 22.8 | 23.4 | 21.9 | 25.9 | 22.6 | 22.1 | 23.6 | 23.3 | 18.1 | 19.0 | 18.9 | | | |
| 1393 | 32.2 | 33.6 | 32.2 | 32.2 | 31.7 | MS | 29.8 | 29.3 | 32.9 | 30.3 | 32.7 | 31.5 | | | | | | | | |
| 1397 | 26.8 | 27.3 | 25.7 | 28.1 | 26.7 | 26.4 | 25.9 | 25.0 | 25.2 | 28.0 | 26.1 | 25.5 | | | | | | | | |
| 1399 | 28.8 | 25.9 | 28.4 | 28.6 | 26.7 | 26.6 | 27.0 | 27.7 | 25.6 | 23.6 | | | | | | | | | | |
| 1401 | 23.9 | 24.2 | 24.3 | 25.1 | 26.1 | 24.8 | 23.6 | 23.3 | 24.3 | 24.6 | 24.5 | 25.1 | | | | | | | | |
| 1404 | 23.6 | 23.3 | 20.1 | 24.0 | 24.8 | 23.5 | 21.4 | 23.9 | 24.5 | 25.0 | 24.2 | 25.2 | 21.6 | 18.1 | 20.2 | | | | | |
| 1407 | 23.9 | 23.1 | 21.0 | 18.0 | 21.3 | 22.4 | 20.5 | 23.2 | 19.9 | 18.5 | 22.8 | 19.5 | 21.6 | 23.2 | 24.5 | | | | | |
| 1409 | 28.1 | 28.7 | 27.0 | 26.2 | 29.4 | 26.7 | 27.6 | 27.2 | 27.6 | 26.5 | 27.4 | 26.1 | | | | | | | | |
| 1410 | 24.0 | 23.3 | 24.3 | 24.6 | 24.4 | 24.4 | 27.2 | 24.1 | 25.1 | 23.0 | 23.1 | 24.7 | 23.1 | 23.1 | 21.2 | 21.7 | FM 5 | | | |
| 1413 | 26.7 | 26.1 | 26.0 | 27.4 | 23.6 | 28.1 | 24.9 | 25.8 | 24.1 | 26.7 | 25.9 | 25.7 | 26.0 | | | | | | | |
| 1415 | 21.4 | 21.7 | 23.5 | 22.7 | 23.6 | 22.9 | 22.5 | 22.1 | 20.3 | 21.4 | 21.9 | 21.2 | 21.6 | | | | | | | |
| 1416 | 21.0 | 23.7 | 21.1 | 23.4 | 22.4 | 21.2 | 22.0 | 21.3 | 21.4 | 21.7 | 20.0 | 21.3 | 22.9 | 23.3 | | | | | | |
| 1418 | 24.3 | 24.4 | 19.9 | 24.4 | 23.5 | 23.0 | 24.3 | 18.1 | 16.2 | 23.6 | 15.5 | 24.2 | 22.3 | FM14 | FD 3 | FM 3 | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 18): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | 3 MG/KG/DAY | | | | | POSTPARTUM DAY 15 | | | | | | | | |
| 1421 | 24.3 | 23.9 | 26.1 | 26.1 | 25.4 | 24.9 | 23.5 | 23.3 | 24.4 | 22.8 | 25.5 | 24.6 | 21.9 | 19.7 | 21.1 | FD 1 | FD 1 | | | |
| 1424 | 23.3 | 17.1 | 18.8 | 22.4 | 20.2 | 20.4 | 20.3 | 20.5 | 16.9 | 19.4 | 20.2 | 19.3 | 19.4 | 20.9 | 19.8 | 16.0 | 19.0 | | | |
| 1426 | 28.5 | 27.1 | 27.7 | 27.7 | 27.2 | 28.6 | 25.8 | 24.6 | 27.4 | 26.3 | 26.4 | 23.8 | 25.1 | | | | | | | |
| 1428 | 23.6 | 26.5 | 24.2 | 25.0 | 25.4 | 23.0 | 22.5 | 24.4 | 23.9 | 23.6 | 22.4 | 21.6 | 18.9 | 24.4 | 20.6 | | | | | |
| 1430 | 24.0 | 22.8 | 21.0 | 20.7 | 18.9 | 23.1 | 20.4 | 20.9 | 20.4 | 19.8 | 19.7 | 15.7 | 18.0 | 18.9 | 20.0 | 22.1 | 21.3 | | | |
| 1431 | 28.0 | 29.0 | 28.4 | 26.8 | 29.2 | 22.5 | 24.4 | 25.1 | 28.5 | MD 1 | 24.9 | 27.3 | 25.5 | 26.5 | 26.6 | FM 2 | | | | |
| 1433 | 23.1 | 25.7 | 25.1 | 19.0 | 26.0 | 18.7 | 26.3 | 24.2 | 24.5 | 21.4 | 18.3 | 25.1 | 21.3 | 28.2 | 24.5 | 24.8 | 26.9 | FD 8 | | |
| 1436 | 26.8 | 26.0 | 28.6 | 26.2 | 27.8 | 29.6 | 28.8 | 27.5 | 25.3 | 27.4 | 26.4 | 24.6 | | | | | | | | |
| 1437 | 27.7 | 23.6 | 24.0 | 19.3 | 24.1 | 24.7 | 25.0 | 19.9 | 25.0 | 20.1 | 22.1 | 21.0 | 21.1 | 19.9 | 22.8 | 23.8 | | | | |
| 1439 | 34.2 | 32.8 | 33.4 | 30.8 | 33.4 | 31.1 | 31.3 | 29.6 | 28.9 | FD 1 | FS | FS | | | | | | | | |
| 1442 | 39.5 | 35.5 | 36.9 | 37.8 | 37.2 | 37.2 | 36.0 | | | | | | | | | | | | | |
| 1443 | 28.1 | 27.1 | 23.1 | 28.9 | 25.9 | 27.8 | 26.6 | 25.1 | 26.2 | 26.7 | 26.6 | 25.4 | 26.8 | 25.6 | | | | | | |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1448 | 27.9 | 27.2 | 24.5 | 23.0 | 26.3 | 26.5 | MS | MS | 24.8 | 25.1 | 23.6 | 21.1 | 24.6 | 20.8 | 26.8 | 22.3 | | | | |
| 1450 | 25.2 | 26.2 | 25.1 | 19.9 | 22.5 | 19.4 | 23.5 | 25.6 | 25.5 | 22.9 | 25.5 | 20.7 | 24.8 | 24.6 | | | | | | |
| 1452 | 20.3 | 22.4 | 22.3 | 23.8 | 21.6 | 22.7 | 21.8 | 23.4 | 21.0 | 21.5 | 22.4 | 20.4 | 20.5 | FM 2 | | | | | | |
| 1455 | 35.1 | 30.4 | 32.8 | 32.5 | 30.3 | MM 6 | MD 5 | MM 3 | 30.0 | 29.1 | 29.8 | 27.8 | 30.8 | FM 6 | FD 6 | | | | | |
| 1456 | 37.3 | 34.2 | 39.2 | 36.3 | 37.5 | 35.8 | | | | | | | | | | | | | | |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1459 | 27.6 | 26.6 | 26.8 | 24.2 | 27.2 | 25.3 | 23.6 | 25.8 | MD 2 | 26.0 | 25.4 | 25.4 | 24.5 | 26.7 | | | | | | |
| 1461 | 28.0 | 30.1 | 25.8 | 29.8 | 27.8 | 30.7 | 28.8 | 30.1 | 31.0 | 30.6 | 32.1 | | | | | | | | | |
| 1463 | 25.5 | 25.2 | 22.6 | 26.6 | 25.1 | 26.3 | 23.7 | MS | 24.7 | 23.6 | 23.3 | 24.8 | 22.9 | 24.7 | FS | | | | | |
| 1465 | 29.6 | 24.6 | 25.0 | 22.6 | 27.1 | 24.6 | 27.1 | 27.3 | 26.0 | 23.8 | 23.4 | 27.4 | 22.4 | 23.9 | 18.8 | 23.0 | | | | |
| 1468 | 22.9 | 16.0 | 22.1 | 18.9 | 20.5 | 21.5 | 14.9 | 21.9 | 22.6 | 22.2 | 20.2 | 25.2 | 17.0 | 23.1 | 18.6 | 22.2 | | | | |
| 1469 | 26.4 | 27.4 | 29.2 | 28.1 | 27.9 | 27.2 | 27.2 | 27.6 | 26.9 | 27.5 | 25.8 | 28.0 | | | | | | | | |
| 1472 | 29.6 | 28.0 | 29.7 | 29.0 | 27.8 | 27.3 | 27.4 | 27.0 | 27.0 | 25.5 | | | | | | | | | | |
| 1474 | 24.5 | 26.0 | 24.0 | 24.0 | 25.4 | 24.3 | 23.9 | 25.5 | 23.7 | 27.5 | 24.4 | 23.7 | 25.1 | 25.8 | | | | | | |
| 1476 | 24.4 | 24.5 | 25.1 | 22.5 | 19.4 | 27.5 | 20.7 | MD 1 | 27.1 | 22.8 | 21.7 | 22.4 | 24.5 | 25.6 | 21.3 | 21.9 | 22.0 | | | |
| 1477 | 21.5 | 21.8 | 14.6 | 17.4 | 23.0 | 19.8 | 17.2 | 14.7 | 21.0 | 20.8 | 20.5 | 22.8 | 20.5 | 23.3 | 17.9 | 20.4 | FD 6 | | | |
| 1480 | 27.2 | 28.2 | 29.1 | 31.7 | 27.8 | 28.0 | 28.0 | 26.0 | 30.1 | 30.6 | 29.4 | 24.8 | 27.6 | | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 19): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | POSTPARTUM DAY 15 | | | | | | | | |
| 1482 | 22.4 | 22.3 | 25.5 | 23.5 | 24.8 | 23.4 | 23.7 | 21.9 | 20.4 | 18.3 | 20.8 | 21.8 | 22.5 | 21.7 | FD 1 | FS | | | | |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1486 | 24.7 | 23.3 | 25.0 | 29.0 | 24.3 | 28.0 | 22.3 | 26.6 | 28.4 | 22.1 | 25.5 | 27.6 | 24.9 | 23.3 | 27.7 | | | | | |
| 1488 | 26.9 | 25.6 | 27.3 | 27.7 | 29.9 | 25.9 | 25.7 | 26.3 | 25.3 | 24.2 | 22.4 | 24.9 | 23.7 | 24.5 | 25.2 | | | | | |
| 1490 | 32.8 | 28.2 | 31.1 | 33.8 | 30.5 | 28.7 | 32.3 | 30.3 | 26.6 | 29.2 | | | | | | | | | | |
| 1491 | 30.4 | 24.4 | 27.9 | 26.4 | 25.0 | 25.5 | 27.7 | 24.3 | 28.0 | 28.3 | 24.1 | 25.0 | 29.4 | 19.3 | UU | | | | | |
| 1494 | 26.3 | 25.1 | 25.6 | 24.9 | 24.0 | 23.4 | 24.2 | 24.2 | MD 1 | 23.6 | 25.5 | 24.0 | 24.1 | 20.7 | | | | | | |
| 1496 | 17.3 | 22.1 | 20.7 | 25.0 | 22.3 | 21.8 | 25.3 | 24.7 | 21.5 | 22.4 | 20.2 | 22.7 | 20.3 | | | | | | | |
| 1497 | 32.6 | 29.7 | 29.2 | 29.4 | 31.7 | 30.8 | 30.4 | 28.6 | 28.5 | 32.8 | 29.4 | | | | | | | | | |
| 1500 | 24.8 | 23.4 | 28.1 | 24.3 | 26.5 | 25.1 | 24.5 | 24.2 | 21.0 | 24.0 | 23.5 | 24.7 | 25.0 | 23.9 | FS | | | | | |
| 1502 | 30.9 | 31.0 | 32.9 | 29.7 | 27.9 | 29.5 | 27.9 | 27.1 | 28.9 | 29.5 | 27.4 | 29.0 | FD 2 | | | | | | | |
| 1505 | 19.5 | 21.7 | 18.6 | 13.3 | 21.4 | 19.0 | 22.1 | 14.9 | 19.9 | 20.3 | 19.4 | 21.2 | 20.1 | 22.0 | 17.7 | 19.5 | | | | |
| 1507 | 21.5 | 24.3 | 22.6 | 22.0 | 23.7 | 23.9 | 20.1 | 23.0 | 22.5 | 20.7 | 21.0 | 22.8 | 21.9 | 19.4 | 21.0 | 21.0 | | | | |
| 1508 | 30.1 | 25.2 | 30.8 | 31.4 | 28.2 | 25.5 | 28.8 | 29.2 | 26.8 | 27.1 | 25.1 | 30.6 | FD 2 | | | | | | | |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1513 | 24.9 | 24.1 | 24.1 | 25.6 | 21.1 | 21.9 | 24.2 | 21.1 | 26.1 | 21.7 | 23.6 | 21.7 | 22.4 | MS | | | | | | |
| 1514 | 22.1 | 21.1 | 21.0 | 19.6 | 19.6 | 23.4 | 17.7 | 20.3 | 21.7 | 16.2 | 20.7 | 18.2 | 20.6 | 19.4 | 19.2 | 21.5 | FD12 | | | |
| 1516 | 26.3 | 28.5 | 29.7 | 28.9 | 28.8 | 31.5 | 27.9 | 27.9 | 28.3 | 24.9 | 28.3 | 29.3 | 26.1 | | | | | | | |
| 1517 | 26.6 | 28.0 | 26.6 | 25.4 | 25.3 | 28.6 | 25.6 | 28.6 | 26.7 | 24.2 | 26.4 | 24.1 | 26.8 | 26.8 | 25.6 | | | | | |
| 1519 | 23.3 | 22.1 | 24.4 | 22.9 | 21.3 | 23.5 | 23.4 | 24.1 | 24.4 | 19.7 | 10.5 | 19.6 | 19.0 | 22.0 | 20.8 | 22.1 | | | | |
| 1521 | 25.3 | 23.7 | 24.9 | 23.9 | 27.8 | 24.9 | 22.7 | 23.2 | 23.3 | 22.6 | 23.3 | 24.0 | | | | | | | | |
| 1523 | 31.1 | 32.6 | 30.3 | 22.8 | 30.4 | 31.4 | 32.0 | MD 1 | 22.3 | 27.7 | 27.6 | 30.5 | | | | | | | | |
| 1524 | 31.3 | 35.9 | | | | | | | | | | | | | | | | | | |
| 1527 | 18.7 | 20.2 | 20.3 | 18.4 | 17.5 | 19.9 | 17.8 | 18.7 | 18.5 | 17.4 | MM 5 | 19.5 | 17.1 | 16.4 | 16.6 | 16.6 | 14.7 | | | |
| 1528 | 28.1 | 29.8 | 24.3 | 27.0 | 22.3 | 27.2 | 24.6 | 20.9 | 26.5 | 25.2 | | | | | | | | | | |
| 1531 | 23.7 | 28.4 | 20.5 | 23.1 | 25.1 | 26.8 | 27.6 | 20.2 | MS | 28.2 | 24.4 | 22.3 | 13.4 | 26.2 | FS | | | | | |
| 1533 | 20.2 | 24.9 | 21.5 | 21.8 | 21.4 | 16.9 | 23.0 | 18.4 | 23.6 | 24.8 | 22.4 | 17.6 | 24.0 | 23.0 | 22.6 | 20.3 | 21.2 | FM 6 | FD 1 | |
| 1534 | 22.5 | 21.5 | 23.4 | 22.1 | 22.6 | 22.8 | 24.1 | 21.7 | 21.4 | 20.6 | 23.2 | 22.4 | | | | | | | | |
| 1537 | 23.9 | 23.3 | 22.5 | 22.8 | 22.6 | 23.6 | 24.1 | 17.5 | 21.9 | 23.5 | 21.8 | 22.3 | 17.1 | 21.4 | FS | | | | | |
| 1539 | 25.9 | 26.2 | 26.8 | 24.4 | 25.6 | 25.2 | 24.8 | 24.4 | 25.1 | 26.4 | 25.0 | 25.3 | 23.8 | 23.5 | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 20): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 15 | | | | | | | |
| 1541 | 26.0 | 25.1 | 24.5 | 24.8 | 24.6 | 23.4 | 23.7 | 24.2 | 22.7 | 22.7 | 24.4 | 22.0 | 25.3 | 25.4 | | | | | | |
| 1544 | 31.2 | 31.8 | 30.1 | 25.4 | 31.1 | 32.4 | 31.9 | 29.1 | 31.5 | 30.1 | 29.0 | 26.5 | FM 2 | FS | | | | | | |
| 1545 | 22.8 | 17.5 | 23.0 | 24.0 | 23.7 | 22.9 | 19.6 | 17.8 | 25.2 | 21.3 | 22.2 | 22.2 | 20.9 | 9.0 | 23.8 | 18.4 | 23.0 | 18.6 | FD 3 | |
| 1546 | 19.8 | 18.5 | 16.7 | 18.0 | 18.9 | 18.8 | 19.5 | 19.6 | 18.2 | 17.0 | 16.9 | 19.2 | 17.2 | 18.0 | 18.3 | | | | | |
| 1548 | 25.6 | 25.1 | 24.2 | 22.4 | 19.6 | 25.9 | 23.4 | 24.5 | 23.8 | 23.0 | 24.8 | 24.9 | 24.9 | FS | | | | | | |
| 1550 | 23.9 | 25.9 | 23.7 | 23.9 | 22.7 | 22.8 | 23.1 | 22.3 | 19.8 | 22.0 | 23.1 | 23.0 | | | | | | | | |
| 1552 | 20.9 | 20.1 | 24.2 | 21.6 | 18.9 | 21.9 | 20.4 | 21.0 | 20.4 | 20.3 | 22.0 | 20.0 | 21.4 | 22.4 | | | | | | |
| 1555 | 22.0 | 21.4 | 21.2 | 22.9 | 21.2 | 22.7 | 20.5 | 20.1 | 20.2 | 19.4 | 20.0 | 21.7 | 19.5 | 20.3 | FD 6 | | | | | |
| 1557 | 27.5 | 27.2 | 27.3 | 27.6 | 27.1 | 27.9 | 28.2 | 25.9 | 27.9 | 26.6 | 27.5 | 27.6 | 26.6 | | | | | | | |
| 1558 | 22.7 | 23.1 | 24.2 | 22.9 | 22.3 | 22.5 | 24.4 | 26.1 | 22.1 | 22.5 | 19.1 | 24.3 | 23.4 | 20.1 | 25.9 | 24.4 | | | | |
| 1560 | 19.6 | 21.1 | 18.5 | 21.2 | 21.9 | 19.5 | MD 7 | 13.9 | 19.3 | 16.4 | 20.2 | 17.2 | 20.7 | 20.2 | 16.9 | | | | | |
| 1564 | 22.9 | 23.4 | 23.0 | 22.7 | 23.4 | 21.8 | 21.7 | 22.3 | 22.2 | 21.2 | 22.0 | 20.1 | 21.7 | | | | | | | |
| 1565 | 23.3 | 24.9 | 25.6 | 23.7 | 25.2 | 25.2 | 24.0 | 22.7 | 23.6 | 22.8 | 21.3 | 23.7 | | | | | | | | |
| 1566 | 22.8 | 20.6 | 17.8 | 20.4 | 17.2 | 21.2 | 19.8 | 17.5 | 15.8 | 19.1 | 19.0 | 21.0 | 20.2 | 20.7 | 19.8 | | | | | |
| 1568 | 27.5 | 27.6 | 24.6 | 27.4 | 26.1 | 22.5 | 24.2 | 27.6 | 24.5 | 26.5 | 26.3 | 25.2 | 24.0 | | | | | | | |
| 1571 | 21.9 | 20.3 | 19.6 | 22.3 | 21.7 | 21.9 | 18.2 | 21.6 | 19.5 | 18.7 | 22.0 | 18.5 | 20.1 | | | | | | | |
| 1573 | 22.8 | 24.7 | 23.7 | 22.5 | 26.2 | 24.4 | 25.5 | 24.5 | 22.1 | 23.7 | 24.5 | 23.2 | 22.9 | 21.7 | 24.4 | | | | | |
| 1576 | 21.0 | 20.7 | 20.4 | 18.5 | 20.1 | 21.2 | MM 8 | MD 7 | 21.1 | 20.1 | 20.6 | 20.8 | 19.8 | | | | | | | |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1579 | 21.5 | 22.6 | 20.6 | 22.8 | 21.5 | 19.2 | 22.0 | 23.6 | 22.7 | 21.5 | 20.5 | 19.8 | 22.4 | 20.8 | 18.5 | | | | | |
| 1583 | 25.8 | 26.1 | 23.8 | 25.1 | MM 3 | 24.6 | 25.0 | 24.3 | 21.4 | 25.3 | 24.6 | 25.5 | | | | | | | | |
| 1584 | 37.1 | 35.5 | 33.9 | 32.0 | | | | | | | | | | | | | | | | |
| 1586 | 22.7 | 22.8 | 20.7 | 19.1 | 21.1 | 21.1 | 21.7 | 21.4 | 20.8 | 18.2 | 20.3 | 20.7 | 21.1 | | | | | | | |
| 1587 | 22.6 | 23.5 | 25.0 | 26.3 | 21.2 | 22.9 | 23.1 | 19.9 | 23.1 | 23.2 | 23.6 | | | | | | | | | |
| 1588 | 23.0 | 24.3 | 24.8 | 23.3 | 23.2 | 24.7 | 24.7 | 25.0 | 24.1 | 23.1 | 25.7 | 24.3 | 24.4 | | | | | | | |
| 1589 | 22.4 | 20.6 | 22.0 | 21.5 | 20.8 | 18.9 | 23.1 | 20.8 | 20.1 | 20.0 | 19.9 | 21.4 | 21.3 | 18.7 | | | | | | |
| 1591 | 23.4 | 24.2 | 18.1 | 21.9 | 21.7 | 21.4 | 23.2 | 23.0 | 22.4 | 21.9 | 22.7 | 20.6 | 22.0 | 22.5 | | | | | | |
| 1593 | 29.7 | 30.5 | 28.9 | 33.3 | 32.7 | 30.2 | | | | | | | | | | | | | | |
| 1598 | 21.2 | 20.8 | 17.8 | 20.4 | 20.6 | 19.4 | 18.3 | 17.9 | 19.4 | 18.8 | 20.5 | 19.7 | 17.3 | 17.5 | 19.3 | 16.0 | 18.5 | | | |
| 1600 | 23.7 | 24.1 | 24.8 | 23.4 | 22.6 | 23.5 | 24.9 | 23.6 | 22.6 | 21.1 | MD 1 | 23.2 | 19.2 | 22.5 | 22.4 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 21): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | 0 MG/KG/DAY | | | | POSTPARTUM DAY 22 | | | | | | | | |
| 1302 | 45.1 | 46.2 | 48.1 | 47.4 | 50.4 | 47.2 | 47.4 | 44.1 | 44.0 | 46.9 | 34.8 | | | | | | | | | |
| 1304 | 45.5 | 43.9 | 52.5 | 46.4 | 44.2 | 41.0 | 40.1 | 39.8 | 47.2 | 44.3 | 43.2 | 45.1 | | | | | | | | |
| 1306 | 42.0 | 35.9 | 30.7 | 40.3 | 31.9 | 33.0 | 28.8 | 31.4 | 34.3 | 34.0 | 30.9 | 37.1 | 33.1 | 37.7 | 30.4 | 34.3 | | | | |
| 1308 | 28.7 | 27.7 | 26.7 | 28.5 | 28.7 | 25.6 | 27.3 | 28.4 | 24.4 | 31.1 | 32.3 | 28.6 | 31.5 | 26.7 | 26.0 | 28.4 | | | | |
| 1310 | 45.5 | 47.7 | 43.6 | 41.7 | 44.7 | 42.6 | 43.3 | 46.0 | 46.0 | 44.9 | 41.4 | 41.2 | 35.1 | 37.6 | | | | | | |
| 1312 | 54.7 | 51.3 | 53.2 | 53.4 | | | | | | | | | | | | | | | | |
| 1313 | 39.4 | 40.3 | 41.5 | 41.3 | 41.0 | 36.9 | 36.5 | 39.1 | 38.0 | 38.4 | 39.0 | 41.2 | FD17 | | | | | | | |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1318 | 51.8 | 46.9 | 44.4 | 48.2 | 52.6 | 49.0 | 45.4 | 47.8 | MM 2 | 46.2 | 49.1 | 48.4 | 48.5 | 48.1 | 48.2 | | | | | |
| 1321 | 33.4 | 34.9 | 30.1 | 33.3 | 31.5 | 31.3 | 24.1 | MM11 | 30.1 | 31.8 | 27.0 | 28.3 | 26.4 | 27.6 | 28.1 | 20.1 | FD10 | | | |
| 1325 | 35.8 | 37.2 | 38.6 | 36.0 | 34.7 | 35.2 | 38.1 | 35.5 | 38.2 | 36.1 | 34.3 | | | | | | | | | |
| 1328 | 50.0 | 46.5 | 43.2 | 49.4 | 53.2 | 52.8 | 47.5 | 41.8 | 47.0 | 46.7 | 47.7 | 44.7 | 44.8 | | | | | | | |
| 1330 | 28.9 | 26.6 | 29.5 | 32.3 | 23.7 | 28.8 | 25.7 | 24.3 | 23.4 | 26.9 | 24.0 | 22.5 | 23.5 | 21.9 | 24.5 | 19.5 | | | | |
| 1331 | 28.7 | 35.8 | 26.9 | 33.8 | 27.6 | 31.1 | 32.6 | 27.5 | 31.1 | 28.5 | 34.8 | MM12 | 26.8 | 28.9 | 28.9 | 27.2 | | | | |
| 1334 | 39.1 | 38.3 | 39.1 | 36.2 | 38.9 | 40.4 | 38.7 | 38.8 | 37.4 | | | | | | | | | | | |
| 1335 | 44.9 | 41.0 | 36.9 | 42.4 | 42.4 | 41.8 | 38.1 | 44.2 | 38.7 | 40.0 | 37.4 | 41.1 | | | | | | | | |
| 1336 | 40.8 | 41.1 | 41.9 | 45.0 | 34.1 | 40.3 | 42.9 | 41.8 | 37.8 | 43.4 | 42.7 | 41.7 | 36.9 | 43.1 | 42.4 | | | | | |
| 1338 | 35.6 | 29.9 | 26.2 | 34.2 | 19.9 | 29.1 | 29.5 | 27.4 | 20.2 | 30.0 | 29.0 | 32.8 | 30.9 | 27.2 | 29.2 | 23.9 | FD16 | | | |
| 1340 | 41.2 | 37.5 | 44.9 | 39.7 | 45.0 | 44.4 | 45.1 | 42.4 | 43.4 | 43.3 | 40.3 | 37.0 | 39.6 | 40.2 | | | | | | |
| 1341 | 50.4 | 46.4 | 45.8 | 47.7 | 45.0 | 46.3 | 45.4 | 47.5 | 42.6 | 44.7 | 45.8 | 46.0 | | | | | | | | |
| 1342 | 41.0 | 41.7 | 38.4 | 39.9 | 37.3 | 40.1 | 41.6 | 33.1 | 30.8 | 33.7 | 36.2 | 35.9 | 33.5 | 25.8 | 34.0 | 36.3 | | | | |
| 1344 | 49.9 | 44.3 | 45.3 | 41.2 | 37.9 | 41.9 | 46.1 | 44.8 | 38.9 | 40.8 | 38.6 | 42.8 | 45.7 | 46.3 | 41.7 | | | | | |
| 1345 | 39.9 | 39.7 | 41.7 | 38.8 | MD 4 | MS | 37.2 | 40.4 | 40.9 | 42.5 | 37.2 | 40.9 | 39.0 | 41.3 | 35.4 | FS | | | | |
| 1346 | 43.5 | 40.8 | 43.3 | 43.5 | 41.7 | 40.7 | 43.5 | 39.8 | 40.1 | 39.5 | | | | | | | | | | |
| 1348 | 34.7 | 39.6 | 37.4 | 32.9 | 39.2 | 37.2 | MS | 37.4 | 38.2 | 35.8 | 38.0 | 38.1 | 35.5 | 30.0 | 34.8 | FS | | | | |
| 1350 | 25.6 | 22.6 | 29.5 | 29.0 | 24.3 | 27.4 | 27.3 | 21.1 | 26.2 | 27.3 | 23.4 | 25.3 | 26.3 | 23.8 | 20.9 | 23.0 | 29.1 | | | |
| 1353 | 43.4 | 44.9 | 39.1 | 38.9 | 41.0 | 41.4 | 43.0 | 40.1 | 42.3 | 37.3 | 39.2 | 41.2 | 40.2 | FU | | | | | | |
| 1355 | 38.7 | 42.2 | 43.9 | 40.4 | 41.7 | 37.0 | 41.7 | 41.2 | 36.5 | 43.6 | 40.3 | 39.9 | 38.2 | 39.2 | 38.4 | | | | | |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | |
| 1359 | 43.1 | 43.2 | 38.4 | 43.4 | 41.5 | 38.5 | 40.0 | 37.7 | 38.1 | 42.3 | 38.9 | 41.6 | 40.2 | FS | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 22): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | 1 MG/KG/DAY | | | | | | POSTPARTUM DAY 22 | | | | | | | |
| 1362 | 42.5 | 42.4 | 43.3 | 42.6 | 43.6 | 43.8 | 39.6 | | | | | | | | | | | | | |
| 1363 | 31.4 | 36.0 | 31.0 | 34.4 | 27.1 | 34.1 | 33.6 | 34.0 | 35.7 | 37.7 | 28.1 | 33.6 | 35.2 | 34.9 | 27.5 | 22.1 | FD 4 | FS | | |
| 1364 | 32.3 | 32.3 | 32.7 | 40.8 | 28.1 | 31.5 | 32.5 | 32.0 | 33.2 | 31.2 | 32.7 | 27.6 | 25.1 | 32.2 | 30.8 | | | | | |
| 1367 | 38.9 | 39.5 | 39.5 | 40.0 | 36.4 | 37.1 | 33.5 | 33.9 | 36.3 | 36.5 | 32.8 | 37.5 | 35.7 | | | | | | | |
| 1368 | 45.5 | 38.3 | 40.1 | 44.2 | 45.2 | 37.2 | 42.7 | 44.3 | 41.0 | 36.4 | 40.7 | 39.3 | 38.8 | 39.1 | 36.0 | | | | | |
| 1371 | 41.9 | 31.3 | 35.9 | 36.0 | 39.8 | 29.5 | 31.9 | 35.2 | 28.4 | 34.7 | 26.2 | 33.9 | 29.9 | 38.3 | 39.3 | 39.5 | FD 9 | | | |
| 1375 | 35.4 | 34.5 | 36.3 | 34.9 | 33.5 | 35.0 | 34.3 | 32.0 | 35.0 | 31.1 | 30.4 | 29.3 | 31.2 | FD17 | | | | | | |
| 1376 | 36.8 | 37.6 | 42.0 | 32.3 | 37.7 | 36.3 | 37.7 | 34.5 | 37.9 | 34.1 | MS | MS | 38.1 | 40.2 | 28.6 | 36.7 | 36.2 | | | |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1379 | 34.6 | 39.4 | 39.7 | 40.1 | 39.1 | 39.7 | 34.5 | 37.6 | 34.4 | 36.0 | 37.8 | 36.0 | | | | | | | | |
| 1381 | 48.6 | 49.1 | 49.7 | 54.7 | 53.9 | 49.5 | 52.3 | 46.7 | 47.4 | 42.7 | 50.1 | 44.4 | | | | | | | | |
| 1382 | 36.3 | 39.1 | 38.1 | 37.8 | 40.1 | 38.5 | 36.6 | 33.4 | 35.3 | 33.3 | 33.4 | 35.7 | 34.7 | | | | | | | |
| 1383 | 48.8 | 47.9 | 43.2 | 46.3 | 48.1 | 46.4 | 49.5 | 46.5 | 45.0 | 49.9 | 44.7 | | | | | | | | | |
| 1384 | 43.0 | 44.8 | 41.4 | 43.3 | 36.7 | MM 4 | 41.7 | 41.6 | 40.6 | 43.2 | 39.6 | 42.4 | 41.7 | | | | | | | |
| 1387 | 33.6 | 32.4 | 35.4 | 34.7 | 35.9 | 37.5 | 40.9 | 38.9 | 34.8 | 36.4 | 32.9 | 34.2 | 38.4 | 36.6 | 43.1 | 33.3 | FS | | | |
| 1389 | 38.9 | 32.0 | 41.4 | 36.7 | 40.2 | 40.6 | 27.8 | MD 7 | 34.7 | 35.0 | 35.0 | 39.9 | 25.8 | 36.9 | 39.3 | 31.1 | | | | |
| 1392 | 28.6 | 33.1 | 30.9 | 24.9 | 28.3 | 29.8 | 28.6 | 35.4 | 31.9 | 32.4 | 30.5 | 27.6 | 30.9 | 31.9 | 25.7 | 25.1 | 24.9 | | | |
| 1393 | 43.3 | 43.9 | 45.8 | 45.5 | 43.6 | MS | 41.5 | 44.3 | 40.5 | 45.1 | 41.5 | 45.1 | | | | | | | | |
| 1397 | 50.7 | 48.4 | 48.8 | 46.1 | 49.8 | 50.1 | 52.4 | 44.9 | 45.3 | 52.8 | 46.8 | 45.7 | | | | | | | | |
| 1399 | 49.6 | 50.3 | 49.3 | 40.4 | 46.4 | 48.4 | 45.6 | 48.5 | 39.1 | 42.1 | | | | | | | | | | |
| 1401 | 45.8 | 42.8 | 42.3 | 45.5 | 45.0 | 45.0 | 41.9 | 35.2 | 39.4 | 44.9 | 39.6 | 44.5 | | | | | | | | |
| 1404 | 39.5 | 34.2 | 38.2 | 39.2 | 32.1 | 40.2 | 38.6 | 37.2 | 35.7 | 37.3 | 28.7 | 35.9 | 37.9 | 32.7 | 31.6 | | | | | |
| 1407 | 29.3 | 38.0 | 34.4 | 35.6 | 31.1 | 39.6 | 33.3 | 36.3 | 31.8 | 42.4 | 31.6 | 37.6 | 36.7 | 38.1 | 31.2 | | | | | |
| 1409 | 46.7 | 48.3 | 50.2 | 48.0 | 46.0 | 45.0 | 48.2 | 43.4 | 44.6 | 48.0 | 44.6 | 45.6 | | | | | | | | |
| 1410 | 40.3 | 42.4 | 40.3 | 40.1 | 38.2 | 40.6 | 40.8 | 45.1 | 32.7 | 36.3 | 35.0 | 42.0 | 40.2 | 37.9 | 33.5 | 37.2 | FM 5 | | | |
| 1413 | 47.2 | 42.3 | 42.6 | 45.4 | 48.3 | 41.9 | 48.8 | 42.9 | 45.0 | 41.9 | 44.4 | 42.9 | 44.4 | | | | | | | |
| 1415 | 39.1 | 36.2 | 41.1 | 34.5 | 38.7 | 36.4 | 38.3 | 36.2 | 37.6 | 35.7 | 36.9 | 35.4 | 37.7 | | | | | | | |
| 1416 | 39.2 | 34.9 | 31.7 | 36.9 | 36.8 | 33.3 | 32.9 | 34.7 | 35.4 | 34.1 | 35.2 | 38.1 | 38.0 | 33.9 | | | | | | |
| 1418 | 37.6 | 38.8 | 36.6 | 30.8 | 37.9 | 35.6 | 37.0 | 38.1 | 35.5 | 37.7 | 27.8 | 26.2 | 26.8 | FM14 | FD 3 | FM 3 | | | | |

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FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 23): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | 3 MG/KG/DAY | | | | | POSTPARTUM DAY 22 | | | | | | | | |
| 1421 | 34.3 | 33.3 | 30.2 | 32.5 | 33.3 | 31.5 | 27.9 | 30.0 | 28.8 | 33.9 | 33.6 | 27.9 | 34.0 | 25.5 | 28.8 | FD 1 | FD 1 | | | |
| 1424 | 28.8 | 26.1 | 27.9 | 32.2 | 25.5 | 28.3 | 30.1 | 27.0 | 21.8 | 24.4 | 28.1 | 28.6 | 27.3 | 27.1 | 28.6 | 28.2 | 25.6 | | | |
| 1426 | 36.0 | 33.1 | 36.6 | 36.4 | 35.3 | 36.6 | 35.8 | 34.9 | 31.2 | 32.9 | 34.1 | 34.2 | 35.7 | | | | | | | |
| 1428 | 37.2 | 40.9 | 40.9 | 40.1 | 37.4 | 41.0 | 34.3 | 37.7 | 41.5 | 34.1 | 40.9 | 36.8 | 39.4 | 35.5 | 34.6 | | | | | |
| 1430 | 37.6 | 34.4 | 32.6 | 29.0 | 26.3 | 37.4 | 31.4 | 33.8 | 31.3 | 30.7 | 24.2 | 24.7 | 32.2 | 33.8 | 30.2 | 31.3 | 28.4 | | | |
| 1431 | 45.1 | 40.3 | 37.5 | 40.6 | 43.6 | 45.9 | 48.1 | 42.6 | 46.2 | MD 1 | 43.8 | 40.3 | 40.9 | 44.2 | 45.9 | FM 2 | | | | |
| 1433 | 42.4 | 39.6 | 41.2 | 37.2 | 30.0 | 34.8 | 40.6 | 38.3 | 36.2 | 31.0 | 35.0 | 38.8 | 39.2 | 41.9 | 32.1 | 41.4 | 43.6 | FD 8 | | |
| 1436 | 37.7 | 39.5 | 37.4 | 37.9 | 35.9 | 40.5 | 35.0 | 38.6 | 37.0 | 35.3 | 35.6 | 35.5 | | | | | | | | |
| 1437 | 40.5 | 41.5 | 34.0 | 39.4 | 42.4 | 39.2 | 41.9 | 38.6 | 34.8 | 39.1 | 37.6 | 36.8 | 34.7 | 37.5 | 34.1 | 38.0 | | | | |
| 1439 | 54.6 | 54.5 | 52.4 | 51.3 | 58.9 | 53.3 | 50.7 | 53.2 | 48.3 | FD 1 | FS | FS | | | | | | | | |
| 1442 | 53.5 | 52.8 | 52.8 | 48.7 | 50.8 | 53.9 | 54.6 | | | | | | | | | | | | | |
| 1443 | 41.0 | 43.7 | 41.8 | 39.7 | 40.2 | 34.7 | 43.5 | 37.6 | 41.4 | 39.2 | 40.9 | 37.0 | 38.5 | 43.0 | | | | | | |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1448 | 43.9 | 43.6 | 39.3 | 41.2 | 45.4 | 40.3 | MS | MS | 37.7 | 40.2 | 35.5 | 36.3 | 43.1 | 32.2 | 36.5 | 41.3 | | | | |
| 1450 | 31.6 | 27.7 | 32.3 | 34.2 | 30.8 | 31.4 | 27.8 | 28.8 | 26.2 | 30.5 | 32.1 | 31.5 | 29.5 | 28.5 | | | | | | |
| 1452 | 34.7 | 35.4 | 35.9 | 34.9 | 34.9 | 31.2 | 33.7 | 32.3 | 33.0 | 31.6 | 32.0 | 36.3 | 31.5 | FM 2 | | | | | | |
| 1455 | 48.7 | 50.8 | 46.8 | 53.1 | 45.4 | MM 6 | MD 5 | MM 3 | 41.9 | 46.9 | 45.5 | 47.6 | 43.5 | FM 6 | FD 6 | | | | | |
| 1456 | 52.1 | 50.0 | 50.2 | 48.1 | 51.0 | 47.8 | | | | | | | | | | | | | | |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1459 | 42.0 | 44.5 | 47.0 | 44.8 | 43.3 | 43.4 | 46.8 | 46.6 | MD 2 | 48.7 | 44.3 | 44.1 | 42.3 | 42.7 | | | | | | |
| 1461 | 50.3 | 44.7 | 51.1 | 50.2 | 47.9 | 51.0 | 52.4 | 45.5 | 50.1 | 50.7 | 51.9 | | | | | | | | | |
| 1463 | 37.2 | 38.8 | 36.2 | 41.1 | 39.5 | 35.3 | 33.1 | MS | 37.2 | 37.8 | 39.0 | 41.2 | 36.2 | 35.0 | FS | | | | | |
| 1465 | 38.5 | 47.9 | 41.4 | 49.8 | 43.3 | 41.2 | 44.1 | 43.9 | 45.9 | 41.9 | 32.5 | 38.8 | 38.9 | 37.3 | 41.1 | 43.6 | | | | |
| 1468 | 33.8 | 35.8 | 26.2 | 30.2 | 36.0 | 31.0 | 35.5 | 36.2 | 34.3 | 35.3 | 32.6 | 34.3 | 26.3 | 29.8 | 21.4 | 31.3 | | | | |
| 1469 | 37.6 | 36.3 | 39.5 | 35.0 | 33.9 | 35.1 | 36.2 | 35.5 | 35.7 | 35.9 | 35.6 | 33.8 | | | | | | | | |
| 1472 | 50.3 | 49.5 | 51.1 | 49.5 | 49.2 | 48.6 | 47.6 | 41.3 | 44.7 | 50.3 | | | | | | | | | | |
| 1474 | 38.4 | 43.3 | 42.1 | 41.6 | 37.8 | 41.0 | 42.3 | 39.4 | 42.4 | 40.8 | 41.9 | 39.9 | 38.8 | 38.8 | | | | | | |
| 1476 | 41.3 | 39.8 | 38.5 | 28.8 | 40.4 | 35.1 | 31.6 | MD 1 | 40.2 | 39.6 | 33.3 | 34.5 | 33.5 | 36.9 | 37.7 | 32.2 | 31.0 | | | |
| 1477 | 37.4 | 36.6 | 26.8 | 19.5 | 27.1 | 35.9 | 34.5 | 21.3 | 32.6 | 39.7 | 38.1 | 33.4 | 39.6 | 33.5 | 26.2 | 34.3 | FD 6 | | | |
| 1480 | 45.0 | 46.5 | 46.9 | 43.9 | 43.0 | 41.8 | 47.1 | 41.8 | 44.7 | 45.8 | 46.7 | 47.1 | 44.1 | | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 24): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | 10 MG/KG/DAY | | | | POSTPARTUM DAY 22 | | | | | | | | |
| 1482 | 38.1 | 33.8 | 38.4 | 43.5 | 39.1 | 34.3 | 33.5 | 37.3 | 33.7 | 34.0 | 35.8 | 33.6 | 34.4 | 33.4 | FD 1 | FS | | | | |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1486 | 37.1 | 31.1 | 35.8 | 32.1 | 36.5 | 31.6 | 32.6 | 32.7 | 28.2 | 31.5 | 37.2 | 36.9 | 34.3 | 34.0 | 32.6 | | | | | |
| 1488 | 37.4 | 41.7 | 40.1 | 39.7 | 38.4 | 38.8 | 39.9 | 39.1 | 35.7 | 37.1 | 36.8 | 38.0 | 34.6 | 37.0 | 33.8 | | | | | |
| 1490 | 48.3 | 52.3 | 49.3 | 52.7 | 55.9 | 51.9 | 55.1 | 52.7 | 50.0 | 45.3 | | | | | | | | | | |
| 1491 | 36.3 | 36.3 | 31.3 | 32.4 | 30.2 | 35.0 | 36.2 | 30.1 | 29.7 | 29.4 | 29.9 | 36.2 | 36.1 | 24.8 | UU | | | | | |
| 1494 | 45.4 | 40.1 | 46.5 | 45.6 | 39.5 | 42.2 | 44.4 | 42.6 | MD 1 | 39.6 | 44.0 | 45.0 | 29.0 | 43.1 | | | | | | |
| 1496 | 38.8 | 42.1 | 31.4 | 35.3 | 44.4 | 36.1 | 35.9 | 37.4 | 34.5 | 38.5 | 41.6 | 39.1 | 35.2 | | | | | | | |
| 1497 | 43.0 | 55.2 | 54.0 | 57.5 | 50.7 | 49.5 | 49.0 | 54.6 | 43.1 | 47.0 | 44.4 | | | | | | | | | |
| 1500 | 32.7 | 40.5 | 40.4 | 45.7 | 38.2 | 43.1 | 40.8 | 40.8 | 38.7 | 42.8 | 40.8 | 39.2 | 38.9 | 42.0 | FS | | | | | |
| 1502 | 50.2 | 47.1 | 49.3 | 44.9 | 47.6 | 45.5 | 49.0 | 44.2 | 45.6 | 46.0 | 44.8 | 44.3 | FD 2 | | | | | | | |
| 1505 | 28.3 | 34.2 | 30.8 | 19.7 | 29.1 | 32.6 | 30.4 | 31.9 | 31.8 | 25.4 | 34.2 | 29.8 | 26.5 | 31.2 | 31.1 | 21.9 | | | | |
| 1507 | 35.4 | 37.7 | 30.9 | 36.2 | 34.5 | 33.8 | 33.1 | 30.2 | 30.8 | 30.4 | 32.3 | 29.7 | 33.2 | 32.6 | 30.2 | 31.7 | | | | |
| 1508 | 39.5 | 42.9 | 40.5 | 40.4 | 43.0 | 38.7 | 39.6 | 38.2 | 41.5 | 40.2 | 39.3 | 38.4 | FD 2 | | | | | | | |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1513 | 34.5 | 39.2 | 40.0 | 37.4 | 39.6 | 36.0 | 37.9 | 38.6 | 41.7 | 34.8 | 38.1 | 36.1 | 37.3 | MS | | | | | | |
| 1514 | 34.9 | 35.4 | 34.3 | 37.8 | 27.5 | 32.6 | 30.6 | 32.0 | 27.0 | 29.8 | 33.5 | 34.0 | 34.2 | 29.2 | 33.2 | 23.1 | FD12 | | | |
| 1516 | 43.3 | 47.3 | 44.4 | 44.5 | 48.3 | 46.0 | 43.4 | 46.8 | 51.6 | 43.7 | 46.8 | 41.1 | 43.7 | | | | | | | |
| 1517 | 36.8 | 36.9 | 36.3 | 34.8 | 36.6 | 33.0 | 32.4 | 33.6 | 31.7 | 33.0 | 31.8 | 31.1 | 32.5 | 30.7 | 32.4 | | | | | |
| 1519 | 36.3 | 40.8 | 37.2 | 33.5 | 35.4 | 36.3 | 33.6 | 38.4 | 38.9 | 30.3 | 35.0 | 29.8 | 30.6 | 36.8 | 30.8 | FD18 | | | | |
| 1521 | 43.4 | 42.2 | 42.7 | 47.5 | 42.0 | 40.2 | 44.4 | 38.7 | 43.1 | 44.2 | 40.8 | 39.9 | | | | | | | | |
| 1523 | 48.2 | 50.4 | 50.1 | 47.7 | 31.4 | 48.5 | 51.1 | MD 1 | 47.0 | 47.0 | 34.6 | 48.6 | | | | | | | | |
| 1524 | 58.4 | 50.5 | | | | | | | | | | | | | | | | | | |
| 1527 | 32.6 | 28.0 | 25.3 | 33.3 | 26.1 | 32.3 | 29.5 | 27.8 | 26.7 | 23.4 | MM 5 | 24.8 | 30.5 | 23.2 | 21.6 | 27.2 | 25.2 | | | |
| 1528 | 47.6 | 42.2 | 47.3 | 49.0 | 37.2 | 41.1 | 41.2 | 43.7 | 41.5 | 35.6 | | | | | | | | | | |
| 1531 | 41.6 | 46.2 | 36.3 | 41.9 | 38.1 | 34.5 | 46.6 | 34.5 | MS | 43.9 | 40.5 | 42.6 | 21.9 | 38.3 | FS | | | | | |
| 1533 | 36.6 | 42.1 | 38.2 | 26.6 | 36.9 | 31.0 | 37.3 | 38.0 | 40.7 | 28.9 | 37.2 | 31.2 | 37.4 | 39.8 | 36.1 | 32.9 | 36.1 | FM 6 | FD 1 | |
| 1534 | 39.0 | 37.7 | 41.4 | 40.0 | 42.0 | 36.1 | 37.1 | 36.8 | 35.4 | 43.0 | 39.9 | 34.3 | | | | | | | | |
| 1537 | 37.4 | 37.3 | 39.2 | 33.0 | 38.4 | 36.4 | 24.4 | 35.5 | 31.1 | 36.2 | 36.8 | 35.5 | 36.1 | 24.5 | FS | | | | | |
| 1539 | 41.5 | 39.9 | 39.6 | 39.5 | 41.5 | 41.8 | 42.4 | 39.6 | 39.3 | 43.6 | 40.6 | 41.0 | 37.2 | 41.1 | | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E40 (PAGE 25): PUP BODY WEIGHTS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | 30 MG/KG/DAY | | | | | | POSTPARTUM DAY 22 | | | | | | | |
| 1541 | 34.1 | 33.2 | 33.8 | 31.8 | 33.4 | 32.0 | 34.5 | 33.0 | 31.6 | 31.8 | 33.3 | 35.1 | 34.8 | 33.3 | | | | | | |
| 1544 | 47.2 | 44.8 | 35.6 | 49.5 | 45.9 | 47.1 | 44.6 | 44.8 | 46.6 | 40.8 | 47.2 | 46.0 | FM 2 | FS | | | | | | |
| 1545 | 34.7 | 39.2 | 35.5 | 28.7 | 45.0 | 32.5 | 35.1 | 27.2 | 22.4 | 34.5 | 32.9 | 35.3 | 37.4 | 29.7 | 31.3 | 28.9 | 30.1 | FD16 | FD 3 | |
| 1546 | 34.9 | 30.6 | 31.8 | 31.6 | 35.8 | 31.0 | 32.1 | 27.8 | 31.9 | 34.7 | 28.5 | 30.8 | 32.9 | 29.6 | 31.0 | | | | | |
| 1548 | 33.7 | 38.4 | 37.6 | 38.4 | 34.7 | 39.0 | 38.3 | 36.3 | 34.9 | 38.9 | 31.1 | 38.1 | 37.3 | FS | | | | | | |
| 1550 | 40.2 | 40.1 | 45.5 | 38.1 | 41.1 | 38.3 | 37.1 | 39.6 | 33.0 | 39.3 | 38.0 | 36.1 | | | | | | | | |
| 1552 | 33.9 | 34.0 | 40.6 | 33.6 | 33.4 | 30.9 | 31.3 | 34.6 | 32.2 | 33.6 | 31.9 | 36.5 | 33.5 | 32.1 | | | | | | |
| 1555 | 27.9 | 32.8 | 32.6 | 29.7 | 32.8 | 34.0 | 30.0 | 28.6 | 30.2 | 29.3 | 29.1 | 29.7 | 25.8 | 26.0 | FD 6 | | | | | |
| 1557 | 34.4 | 34.5 | 33.0 | 33.6 | 32.1 | 32.9 | 34.3 | 34.5 | 33.6 | 33.7 | 31.0 | 35.2 | 35.6 | | | | | | | |
| 1558 | 37.1 | 39.3 | 35.8 | 35.0 | 33.7 | 35.9 | 33.8 | 31.6 | 31.1 | 31.3 | 37.6 | 37.0 | 34.1 | 39.4 | 28.3 | 32.3 | | | | |
| 1560 | 33.3 | 33.0 | 36.3 | 29.8 | 36.3 | 31.9 | MD 7 | 32.9 | 32.0 | 28.5 | 33.1 | 36.2 | 24.8 | 26.1 | 25.6 | | | | | |
| 1564 | 38.8 | 35.1 | 37.4 | 41.4 | 39.6 | 39.9 | 37.0 | 31.3 | 36.6 | 34.4 | 35.5 | 35.8 | 36.5 | | | | | | | |
| 1565 | 39.7 | 37.3 | 39.1 | 40.5 | 36.1 | 40.5 | 35.9 | 39.1 | 35.3 | 38.2 | 40.8 | 39.3 | | | | | | | | |
| 1566 | 35.0 | 40.5 | 36.4 | 33.5 | 26.7 | 36.6 | 32.5 | 30.9 | 30.9 | 36.1 | 34.6 | 34.5 | 35.9 | 36.3 | 30.2 | | | | | |
| 1568 | 43.9 | 45.3 | 44.9 | 37.6 | 40.6 | 46.8 | 45.2 | 44.7 | 44.6 | 47.9 | 47.1 | 45.6 | 42.8 | | | | | | | |
| 1571 | 33.6 | 31.6 | 32.5 | 29.3 | 30.5 | 29.8 | 32.2 | 29.7 | 28.7 | 27.6 | 27.3 | 28.5 | 30.3 | | | | | | | |
| 1573 | 39.4 | 35.4 | 38.1 | 37.9 | 38.1 | 37.4 | 37.1 | 35.9 | 35.9 | 39.4 | 37.9 | 34.2 | 37.2 | 35.6 | 38.0 | | | | | |
| 1576 | 32.7 | 32.8 | 33.4 | 30.8 | 32.7 | 30.5 | MM 8 | MD 7 | 33.3 | 31.7 | 33.1 | 34.3 | 32.0 | | | | | | | |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | |
| 1579 | 36.5 | 36.1 | 36.1 | 36.2 | 33.1 | 34.1 | 27.2 | 33.6 | 33.9 | 36.3 | 31.6 | 34.5 | 32.5 | 26.9 | 33.6 | | | | | |
| 1583 | 39.0 | 42.4 | 38.1 | 40.7 | MM 3 | 40.4 | 46.4 | 41.3 | 42.1 | 40.0 | 41.5 | 33.9 | | | | | | | | |
| 1584 | 60.9 | 58.7 | 55.1 | 50.7 | | | | | | | | | | | | | | | | |
| 1586 | 34.9 | 39.5 | 37.2 | 41.2 | 37.2 | 40.3 | 34.0 | 37.7 | 37.6 | 31.6 | 38.3 | 37.4 | 36.8 | | | | | | | |
| 1587 | 42.3 | 41.9 | 46.2 | 33.6 | 33.3 | 37.2 | 40.5 | 37.6 | 37.7 | 37.0 | 35.5 | | | | | | | | | |
| 1588 | 38.9 | 39.6 | 39.5 | 39.2 | 40.8 | 37.7 | 40.2 | 41.6 | 39.3 | 39.7 | 39.1 | 38.5 | 39.3 | | | | | | | |
| 1589 | 26.5 | 24.8 | 26.3 | 23.4 | 26.7 | 25.9 | 28.3 | 25.9 | 25.6 | 28.6 | 24.5 | 24.6 | 24.9 | 25.0 | | | | | | |
| 1591 | 36.0 | 36.8 | 37.4 | 39.4 | 35.9 | 37.5 | 36.8 | 27.8 | 35.0 | 32.7 | 38.7 | 32.4 | 35.8 | 34.9 | | | | | | |
| 1593 | 51.2 | 51.9 | 50.6 | 52.4 | 56.3 | 56.1 | | | | | | | | | | | | | | |
| 1598 | 31.2 | 27.4 | 23.4 | 29.3 | 29.4 | 25.0 | 29.3 | 23.7 | 26.7 | 29.0 | 23.8 | 29.0 | 27.5 | 27.9 | 22.1 | 27.7 | 24.8 | | | |
| 1600 | 38.7 | 40.8 | 40.6 | 39.9 | 42.1 | 37.5 | 35.7 | 34.9 | 33.2 | 37.6 | MD 1 | 38.2 | 38.6 | 36.9 | 30.3 | | | | | |

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E41 (PAGE 1): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP I | | | | | | | | | | 0 MG/KG/DAY | | | | | | | | | | | | |
| 1302 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | |
| 1304 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | |
| 1306 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1308 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1310 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | |
| 1312 | M | A | M | A | F | A | F | A | | | | | | | | | | | | | | | |
| 1313 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | FD17 | | |
| 1316 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1318 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | MM | 2 | F | A | F | A | F | A | F | A |
| 1321 | M | A | M | A | M | A | M | A | M | A | M | A | MM | 11 | F | A | F | A | F | A | F | A | F | A | FD10 |
| 1325 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | | | | |
| 1328 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | |
| 1330 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1331 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | MM | 12 | F | A | F | A | F | A |
| 1334 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | | | | | | |
| 1335 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | | |
| 1336 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1338 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | FD16 |
| 1340 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | |
| 1341 | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | |
| 1342 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A |
| 1344 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1345 | M | A | M | A | M | A | MD | 4 | M | S | F | A | F | A | F | A | F | A | F | A | F | A | F | S |
| 1346 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | | | | | | |
| 1348 | M | A | M | A | M | A | M | A | M | A | M | S | M | A | M | A | F | A | F | A | F | A | F | A | F | S |
| 1350 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A |
| 1353 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | U | | |
| 1355 | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | | | | |
| 1359 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | S |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, C-CULLED, M-MISSING (PRESUMED CANNIBALIZED), X-OTHER
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E41 (PAGE 2): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP II | | | | | | | | | 1 MG/KG/DAY | | | | | | | | | | | | | |
| 1362 | M A | M A | M A | M A | F A | F A | F A | | | | | | | | | | | | | | | | |
| 1363 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A FD 4 | F S | | | | | |
| 1364 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1367 | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1368 | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1371 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A FD 9 | | | | | | |
| 1375 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A FD17 | | | | | | | | | |
| 1376 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M S | M S | F A | F A | F A | F A | F A | | | | | |
| 1378 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1379 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 1381 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 1382 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | |
| 1383 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | | | | |
| 1384 | M A | M A | M A | M A | M A | MM 4 | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | |
| 1387 | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F S | | | | | | |
| 1389 | M A | M A | M A | M A | M A | M A | M A | MD 7 | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1392 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | |
| 1393 | M A | M A | M A | M A | M S | F A | F A | F A | F A | F A | F A | | | | | | | | | | | | |
| 1397 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 1399 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | | | |
| 1401 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 1404 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | |
| 1407 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1409 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | | |
| 1410 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A FM 5 | | | | | | |
| 1413 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1415 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1416 | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 1418 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A FM14 FD 3 FM 3 | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, C-CULLED, M-MISSING (PRESUMED CANNIBALIZED), X-OTHER
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E41 (PAGE 3): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP III | | | | | | | | | 3 MG/KG/DAY | | | | | | | | | | | | | |
| 1421 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | FD 1 | FD 1 |
| 1424 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1426 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | | | | |
| 1428 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | |
| 1430 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1431 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | MD 1 | | F | A | F | A | F | A | F | A | FM 2 | | | |
| 1433 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | FD 8 |
| 1436 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | | | | | | | | |
| 1437 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | | |
| 1439 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | FD 1 | | F | S | F | S | | | | | | | | |
| 1442 | M | A | M | A | M | A | F | A | F | A | | | | | | | | | | | | | | | | | | |
| 1443 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | |
| 1446 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1448 | M | A | M | A | M | A | M | A | M | A | M | S | M | S | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1450 | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | | | |
| 1452 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | FM 2 | | | | | | | |
| 1455 | M | A | M | A | M | A | M | A | MM 6 | | MD 5 | | MM 3 | | F | A | F | A | F | A | F | A | FM 6 | | FD 6 | | | |
| 1456 | M | A | M | A | M | A | F | A | F | A | | | | | | | | | | | | | | | | | | |
| 1458 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1459 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | MD 2 | | F | A | F | A | F | A | F | A | | | | |
| 1461 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | | | | | | | | | | |
| 1463 | M | A | M | A | M | A | M | A | M | A | M | A | M | S | F | A | F | A | F | A | F | A | F | A | F | S | | |
| 1465 | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1468 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1469 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | | | | | | | | |
| 1472 | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | | | | | | | | | |
| 1474 | M | A | M | A | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | | | | |
| 1476 | M | A | M | A | M | A | M | A | M | A | MD 1 | | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A |
| 1477 | M | A | M | A | M | A | M | A | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | FD 6 | |
| 1480 | M | A | M | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | F | A | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, C-CULLED, M-MISSING (PRESUMED CANNIBALIZED), X-OTHER
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E41 (PAGE 4): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP IV | | | | | | | | | 10 MG/KG/DAY | | | | | | | | | | | | | |
| 1482 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | FD 1 | F S | | | | | | | |
| 1483 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1486 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 1488 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 1490 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | | | | | | | | | | | | | |
| 1491 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | U U | | | | | | | | |
| 1494 | M A | M A | M A | M A | M A | M A | M A | M A | MD 1 | F A | F A | F A | F A | F A | | | | | | | | | |
| 1496 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1497 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | | |
| 1500 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F S | | | | | | | | |
| 1502 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | FD 2 | | | | | | | | | | |
| 1505 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1507 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1508 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | FD 2 | | | | | | | | | | |
| 1511 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1513 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | M S | | | | | | | | | |
| 1514 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | FD12 | | | | | | |
| 1516 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | | | | | |
| 1517 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 1519 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | FD18 | | | | | | |
| 1521 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 1523 | M A | M A | M A | M A | M A | M A | M A | MD 1 | F A | F A | F A | F A | | | | | | | | | | | |
| 1524 | M A | M A | | | | | | | | | | | | | | | | | | | | | |
| 1527 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | MM 5 | F A | F A | F A | F A | F A | F A | | | | | | |
| 1528 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | | | | | | | | | | | | | |
| 1531 | M A | M A | M A | M A | M A | M A | M A | M A | M S | F A | F A | F A | F A | F A | F A | F S | | | | | | | |
| 1533 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | FM 6 | FD 1 | | | |
| 1534 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 1537 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F S | | | | | | | |
| 1539 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, C-CULLED, M-MISSING (PRESUMED CANNIBALIZED), X-OTHER
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E41 (PAGE 5): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT/ LITTER # | MATERNAL DOSAGE GROUP V | | | | | | | | | 30 MG/KG/DAY | | | | | | | | | | | | | |
| 1541 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1544 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | FM 2 | F S | | | | | | | | | |
| 1545 | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A FD16 | FD 3 | | | | |
| 1546 | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 1548 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F S | | | | | | | | | |
| 1550 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | |
| 1552 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1555 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A FD 6 | | | | | | | | | |
| 1557 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1558 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1560 | M A | M A | M A | M A | M A | M A MD 7 | | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | |
| 1564 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1565 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | |
| 1566 | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1568 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1571 | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1573 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1576 | M A | M A | M A | M A | M A | M A MM 8 MD 7 | | | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1579 | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1583 | M A | M A | M A | M A MM 3 | | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | |
| 1584 | M A | M A | M A | F A | | | | | | | | | | | | | | | | | | | |
| 1586 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1587 | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | | | |
| 1588 | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | | | |
| 1589 | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | | | | | | | |
| 1591 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | | | | | | | |
| 1593 | M A | M A | F A | F A | F A | F A | | | | | | | | | | | | | | | | | |
| 1598 | M A | M A | M A | M A | M A | M A | M A | M A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A | F A |
| 1600 | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A | M A MD 1 | | F A | F A | F A | F A | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, C-CULLED, M-MISSING (PRESUMED CANNIBALIZED), X-OTHER
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PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E42 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| I | | | |
| 0 | 1308 | 22 | 16/16 PUPS: DEHYDRATION; UNGROOMED COAT.b |
| | 1313 | 16 | 1/13 PUPS: DEHYDRATION. |
| | 1321 | 10 | 1/17 PUPS: EMACIATION; NO MILK PRESENT IN STOMACH. |
| | 1348 | 3 | 2/14 PUPS: COLD TO TOUCH. |
| | 1350 | 21 | 17/17 PUPS: DEHYDRATION. |
| II | | | |
| 1 | 1404 | 1-22 | 1/15 PUPS: THREAD-LIKE TAIL; NO ANAL OPENING PRESENT. |
| | | 2-22 | 1/15 PUPS: THREAD-LIKE TAIL. |
| | 1418 | 2 | 4/16 PUPS: COLD TO TOUCH. |
| | | 12 | 1/14 PUPS: COLD TO TOUCH; DEHYDRATION. |
| | | 12 | 1/14 PUPS: DEHYDRATION. |
| III | | | |
| 3 | 1424 | 4 | 1/17 PUPS: COLD TO TOUCH. |
| IV | | | |
| 10 | 1517 | 1 | 1/15 PUPS: COLD TO TOUCH. |
| | 1519 | 16 | 1/16 PUPS: EMACIATION. |
| | | 17 | 1/16 PUPS: DEHYDRATION. |
| | 1523 | 1 | 1/12 PUPS: TAIL BENT (0.7 CM FROM BASE).b |
| | | 2-22 | 1/11 PUPS: TAIL BENT (DID NOT EXCEED 3.2 CM FROM BASE).b |
| | | 20-22 | 1/11 PUPS: RIGHT EYE: NOT PRESENT.b |
| | | 22 | 1/11 PUPS: DOMED HEAD.b |
| | 1527 | 22 | 1/16 PUPS: DEHYDRATION. |

a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Observation confirmed at necropsy.

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TABLE E42 (PAGE 2): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 22 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS a |
|---|---|---|---|
| V<br>30 | 1545 | 15 | 1/18 PUPS: EMACIATION. |
| | 1548 | 1 | 1/14 PUPS: COLD TO TOUCH. |
| | 1550 | 1-22 | 1/12 PUPS: NO TAIL PRESENT. |
| | 1557 | 8-15 | 1/13 PUPS: MOUTH: MASS (DID NOT EXCEED 0.5 CM X 0.2 CM X 0.2 CM). |
| | 1565 | 2 | 1/12 PUPS: BACK: ABRASION (0.5 CM X 0.2 CM); COLD TO TOUCH. |
| | | 3 | 1/12 PUPS: BACK: ABRASION (0.5 CM X 0.2 CM); COLD TO TOUCH. |
| | | 4-7 | 1/12 PUPS: BACK: SCAB (0.5 CM X 0.2 CM). |
| | 1568 | 1-7 | 1/13 PUPS: TAIL: ABRASION (0.3 CM FROM BASE). |
| | 1573 | 5 | 1/15 PUPS: COLD TO TOUCH. |
| | 1583 | 5-7 | 1/11 PUPS: BASE OF TAIL: ABRASION (0.5 CM X 0.3 CM). |
| | | 8-10 | 1/11 PUPS: TAIL: ABRASION (2.5 CM X 0.5 CM). |
| | | 11-12 | 1/11 PUPS: TIP OF TAIL BLACK; TIP OF TAIL MISSING. |
| | | 13-21 | 1/11 PUPS: TIP OF TAIL MISSING; TAIL: SCAB (0.2 CM X 0.2 CM). |
| | | 22 | 1/11 PUPS: TIP OF TAIL MISSING. |
| | 1600 | 1 | 1/15 PUPS: PALE IN APPEARANCE. |
| | | 2-3 | 1/14 PUPS: PALE IN APPEARANCE. |

a. Tabulation restricted to adverse observations; all other pups appeared normal.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| I<br>0 | 1302 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1304 | 22 | 1 PUP: KIDNEY: PELVIS, DILATED, SLIGHT.<br>ALL OTHER TISSUES APPEARED NORMAL.<br>ALL OTHER PUPS EXAMINED APPEARED NORMAL. |
| | 1306 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1308 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1310 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1312 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1313 | 17 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH.<br>AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1318 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1321 | 10 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH.<br>ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1325 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1328 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1330 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1331 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1334 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1335 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1336 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1338 | 16 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH.<br>AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1340 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1341 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| I<br>0<br>CONT. | 1342 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1344 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1345 | 1 | 2 PUPS: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 4 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1346 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1348 | 1 | 2 PUPS: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1350 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1353 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1355 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1359 | 1 | 1 PUP: STILLBORN.<br>ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| II | | | |
| 1 | 1362 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1363 | 1 | 1 PUP: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 4 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1364 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1367 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1368 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1371 | 9 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1375 | 17 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1376 | 1 | 2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1379 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1381 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1382 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1383 | 22 | 1 PUP: KIDNEY: RIGHT, PELVIS, MODERATE DILATION. ALL OTHER TISSUES APPEARED NORMAL.<br>5 PUPS: APPEARED NORMAL.<br>ALL OTHER PUPS EXAMINED APPEARED NORMAL. |
| | 1384 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1387 | 1 | 1 PUP: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| II<br>1<br>CONT. | 1389 | 7 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1392 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1393 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1397 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1399 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1401 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1404 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1407 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1409 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1410 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1413 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1415 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1416 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1418 | 3 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| III<br>3 | 1421 | 1 | 2 PUPS: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1424 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1426 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1428 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1430 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1431 | 1 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1433 | 8 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1436 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1437 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1439 | 1 | 2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL.<br>1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1442 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1443 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1448 | 1 | 2 PUPS: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1450 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1452 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1455 | 5 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 6 | 1 PUP: FOUND DEAD. CANNIBALIZATION PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| III<br>3<br>CONT. | 1456 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1459 | 2 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | 1 PUP: KIDNEYS: BILATERAL, PELVIS, MODERATE DILATION. ALL OTHER TISSUES APPEARED NORMAL.<br>ALL OTHER PUPS EXAMINED APPEARED NORMAL. |
| | 1461 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1463 | 1 | 2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1465 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1468 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1469 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1472 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1474 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1476 | 1 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | 1 PUP: KIDNEY: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL.<br>ALL OTHER PUPS EXAMINED APPEARED NORMAL. |
| | 1477 | 6 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1480 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 7): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| IV<br>10 | 1482 | 1 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1486 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1488 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1490 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1491 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1494 | 1 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1496 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1497 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1500 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1502 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1505 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1507 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1508 | 2 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1513 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1514 | 12 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1516 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1517 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 8): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| IV<br>10<br>CONT. | 1519 | 18 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1521 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1523 | 1 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | 1 PUP: BRAIN: THIRD AND LATERAL VENTRICLES, MARKED DILATION.<br>ALL OTHER TISSUES APPEARED NORMAL.<br>ALL OTHER PUPS EXAMINED APPEARED NORMAL. |
| | 1524 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1527 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1528 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1531 | 1 | 2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1533 | 1 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1534 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1537 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1539 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 9): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| V<br>30 | 1541 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1544 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1545 | 3 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 16 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1546 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1548 | 1 | 1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1550 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1552 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1555 | 6 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1557 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1558 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1560 | 7 | 1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1564 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1565 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1566 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1568 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1571 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1573 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1576 | 7 | 1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E43 (PAGE 10): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

| MATERNAL DOSAGE GROUP<br>MATERNAL DOSAGE (MG/KG/DAY) | LITTER NUMBER | DAY (S) POSTPARTUM | OBSERVATIONS |
|---|---|---|---|
| V<br>30<br>CONT. | 1579 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1583 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1584 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1586 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1587 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1588 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1589 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1591 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1593 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1598 | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |
| | 1600 | 1 | 1 PUP: FOUND DEAD. NO MILK PRESENT IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL. |
| | | 22 | ALL PUPS EXAMINED APPEARED NORMAL. |

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E44 (PAGE 1): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP I 0 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 1302 | 1.72 | 1.61 | 1.66 | 0.20 | 0.21 | 0.20 | 0.31 | 0.30 | 0.30 | 48.1 | 44.0 | 46.0 |
| 1304 | 1.59 | 1.55 | 1.57 | 0.16 | 0.15 | 0.16 | 0.20 | 0.17 | 0.18 | 45.5 | 39.8 | 42.6 |
| 1306 | 1.42 | 1.32 | 1.37 | 0.16 | 0.11 | 0.14 | 0.13 | 0.08 | 0.10 | 42.0 | 34.3 | 38.2 |
| 1308 | 1.29 | 1.35 | 1.32 | 0.09 | 0.15 | 0.12 | 0.09 | 0.09 | 0.09 | 28.5 | 28.4 | 28.4 |
| 1310 | 1.58 | 1.48 | 1.53 | 0.22 | 0.30 | 0.26 | 0.20 | 0.19 | 0.20 | 45.5 | 44.9 | 45.2 |
| 1312 | 1.75 | 1.67 | 1.71 | 0.20 | 0.17 | 0.18 | 0.31 | 0.26 | 0.28 | 54.7 | 53.2 | 54.0 |
| 1313 | 1.48 | 1.39 | 1.44 | 0.15 | 0.17 | 0.16 | 0.21 | 0.26 | 0.24 | 39.4 | 36.5 | 38.0 |
| 1316 | NOT PREGNANT | | | | | | | | | | | |
| 1318 | 1.69 | 1.56 | 1.62 | 0.24 | 0.19 | 0.22 | 0.26 | 0.24 | 0.25 | 52.6 | 46.2 | 49.4 |
| 1321 | 1.45 | 1.48 | 1.46 | 0.13 | 0.14 | 0.14 | 0.24 | 0.18 | 0.21 | 33.4 | a | 33.4 |
| 1325 | 1.56 | 1.45 | 1.50 | 0.18 | 0.11 | 0.14 | 0.12 | 0.14 | 0.13 | 35.8 | 35.5 | 35.6 |
| 1328 | 1.56 | 1.54 | 1.55 | 0.17 | 0.16 | 0.16 | 0.20 | 0.23 | 0.22 | 43.2 | 41.8 | 42.5 |
| 1330 | 1.44 | 1.41 | 1.42 | 0.11 | 0.08 | 0.10 | 0.15 | 0.10 | 0.12 | 26.6 | 23.4 | 25.0 |
| 1331 | 1.58 | 1.46 | 1.52 | 0.14 | 0.09 | 0.12 | 0.15 | 0.08 | 0.12 | 33.8 | 26.8 | 30.3 |
| 1334 | 1.53 | 1.50 | 1.52 | 0.10 | 0.12 | 0.11 | 0.16 | 0.18 | 0.17 | 39.1 | 38.7 | 38.9 |
| 1335 | 1.52 | 1.46 | 1.49 | 0.14 | 0.14 | 0.14 | 0.22 | 0.23 | 0.22 | 44.9 | 44.2 | 44.6 |
| 1336 | 1.56 | 1.54 | 1.55 | 0.19 | 0.23 | 0.21 | 0.24 | 0.22 | 0.23 | 45.0 | 43.4 | 44.2 |
| 1338 | 1.23 | 1.30 | 1.26 | 0.13 | 0.14 | 0.14 | 0.14 | 0.16 | 0.15 | 29.9 | 27.2 | 28.6 |
| 1340 | 1.05 | 1.80 | 1.42 | 0.15 | 0.16 | 0.16 | 0.20 | 0.17 | 0.18 | 41.2 | 40.2 | 40.7 |
| 1341 | 1.58 | 1.55 | 1.56 | 0.15 | 0.20 | 0.18 | 0.25 | 0.24 | 0.24 | 46.4 | 46.3 | 46.4 |
| 1342 | 1.44 | 1.36 | 1.40 | 0.10 | 0.09 | 0.10 | 0.12 | 0.12 | 0.12 | 38.4 | 33.5 | 36.0 |
| 1344 | 1.56 | 1.47 | 1.52 | 0.15 | 0.15 | 0.15 | 0.14 | 0.16 | 0.15 | 44.3 | 42.8 | 43.6 |
| 1345 | 1.53 | 1.47 | 1.50 | 0.08 | 0.15 | 0.12 | 0.14 | 0.21 | 0.18 | 39.9 | 40.9 | 40.4 |
| 1346 | 1.57 | 1.52 | 1.54 | 0.09 | 0.14 | 0.12 | 0.22 | 0.22 | 0.22 | 43.5 | 39.8 | 41.6 |
| 1348 | 1.50 | 1.41 | 1.46 | 0.13 | 0.15 | 0.14 | 0.18 | 0.19 | 0.18 | 34.7 | 35.8 | 35.2 |
| 1350 | 1.34 | 1.26 | 1.30 | 0.07 | 0.08 | 0.08 | 0.06 | 0.09 | 0.08 | 22.6 | 23.8 | 23.2 |
| 1353 | 1.44 | 1.52 | 1.48 | 0.11 | 0.15 | 0.13 | 0.16 | 0.21 | 0.18 | 41.0 | 43.0 | 42.0 |
| 1355 | 1.63 | 1.51 | 1.57 | 0.14 | 0.14 | 0.14 | 0.24 | 0.23 | 0.24 | 38.7 | 41.7 | 40.2 |
| 1358 | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | |
| 1359 | 1.53 | 1.46 | 1.50 | 0.20 | 0.17 | 0.18 | 0.22 | 0.18 | 0.20 | 41.5 | 40.2 | 40.8 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Pup's identification appeared incorrectly recorded; therefore, terminal body weight could not be determined.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E44 (PAGE 2): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP II 1 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 1362 | 1.54 | 1.45 | 1.50 | 0.13 | 0.15 | 0.14 | 0.17 | 0.18 | 0.18 | 42.5 | 43.6 | 43.0 |
| 1363 | 1.43 | 1.29 | 1.36 | 0.09 | 0.10 | 0.10 | 0.11 | 0.10 | 0.10 | 34.1 | 27.5 | 30.8 |
| 1364 | 1.42 | 1.35 | 1.38 | 0.11 | 0.11 | 0.11 | 0.13 | 0.11 | 0.12 | 32.7 | 33.2 | 33.0 |
| 1367 | 1.60 | 1.57 | 1.58 | 0.10 | 0.10 | 0.10 | 0.12 | 0.15 | 0.14 | 39.5 | 36.3 | 37.9 |
| 1368 | 1.42 | 1.42 | 1.42 | 0.15 | 0.17 | 0.16 | 0.20 | 0.19 | 0.20 | 38.3 | 41.0 | 39.6 |
| 1371 | 1.30 | 1.35 | 1.32 | 0.09 | 0.14 | 0.12 | 0.13 | 0.15 | 0.14 | 29.5 | 33.9 | 31.7 |
| 1375 | 1.39 | 1.34 | 1.36 | 0.07 | 0.10 | 0.08 | 0.05 | 0.11 | 0.08 | 36.3 | 30.4 | 33.4 |
| 1376 | 1.48 | 1.53 | 1.50 | 0.09 | 0.11 | 0.10 | 0.12 | 0.16 | 0.14 | 36.3 | 38.1 | 37.2 |
| 1378 | NOT PREGNANT | | | | | | | | | | | |
| 1379 | 1.57 | 1.41 | 1.49 | 0.17 | 0.15 | 0.16 | 0.19 | 0.21 | 0.20 | 39.7 | 34.5 | 37.1 |
| 1381 | 1.56 | 1.62 | 1.59 | 0.14 | 0.18 | 0.16 | 0.25 | 0.22 | 0.24 | 49.7 | 46.7 | 48.2 |
| 1382 | 1.39 | 1.31 | 1.35 | 0.10 | 0.12 | 0.11 | 0.14 | 0.16 | 0.15 | 36.3 | 33.3 | 34.8 |
| 1383 | 1.64 | 1.59 | 1.62 | 0.15 | 0.19 | 0.17 | 0.19 | 0.19 | 0.19 | 47.9 | 49.5 | 48.7 |
| 1384 | 1.54 | 1.44 | 1.49 | 0.23 | 0.19 | 0.21 | 0.24 | 0.20 | 0.22 | 41.4 | 43.2 | 42.3 |
| 1387 | 1.56 | 1.39 | 1.48 | 0.14 | 0.20 | 0.17 | 0.14 | 0.16 | 0.15 | 38.9 | 38.4 | 38.6 |
| 1389 | 1.45 | 1.38 | 1.42 | 0.12 | 0.11 | 0.12 | 0.16 | 0.19 | 0.18 | 32.0 | 35.0 | 33.5 |
| 1392 | 1.41 | 1.42 | 1.42 | 0.06 | 0.12 | 0.09 | 0.13 | 0.11 | 0.12 | 28.6 | 27.6 | 28.1 |
| 1393 | 1.54 | 1.49 | 1.52 | 0.14 | 0.17 | 0.16 | 0.15 | 0.16 | 0.16 | 43.3 | 41.5 | 42.4 |
| 1397 | 1.55 | 1.55 | 1.55 | 0.19 | 0.23 | 0.21 | 0.23 | 0.18 | 0.20 | 48.4 | 44.9 | 46.6 |
| 1399 | 1.67 | 1.61 | 1.64 | 0.17 | 0.18 | 0.18 | 0.23 | 0.24 | 0.24 | 50.3 | 46.4 | 48.4 |
| 1401 | 1.48 | 1.40 | 1.44 | 0.20 | 0.21 | 0.20 | 0.22 | 0.22 | 0.22 | 45.8 | 45.0 | 45.4 |
| 1404 | 1.43 | 1.48 | 1.46 | 0.13 | 0.17 | 0.15 | 0.12 | 0.15 | 0.14 | 37.2 | 37.9 | 37.6 |
| 1407 | 1.37 | 1.34 | 1.36 | 0.15 | 0.12 | 0.14 | 0.14 | 0.14 | 0.14 | 34.4 | 31.8 | 33.1 |
| 1409 | 1.50 | 1.46 | 1.48 | 0.19 | 0.15 | 0.17 | 0.19 | 0.23 | 0.21 | 48.3 | 44.6 | 46.4 |
| 1410 | 1.56 | 1.40 | 1.48 | 0.14 | 0.08 | 0.11 | 0.28 | 0.13 | 0.20 | 45.1 | 33.5 | 39.3 |
| 1413 | 1.64 | 1.48 | 1.56 | 0.20 | 0.20 | 0.20 | 0.22 | 0.19 | 0.20 | 48.3 | 44.4 | 46.4 |
| 1415 | 1.52 | 1.39 | 1.46 | 0.18 | 0.15 | 0.16 | 0.12 | 0.17 | 0.14 | 38.3 | 35.4 | 36.8 |
| 1416 | 1.42 | 1.46 | 1.44 | 0.08 | 0.12 | 0.10 | 0.11 | 0.12 | 0.12 | 31.7 | 36.8 | 34.2 |
| 1418 | 1.49 | 1.38 | 1.44 | 0.10 | 0.17 | 0.14 | 0.15 | 0.16 | 0.16 | 37.6 | 38.1 | 37.8 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E44 (PAGE 3): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP III — 3 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 1421 | 1.44 | 1.37 | 1.40 | 0.09 | 0.10 | 0.10 | 0.11 | 0.08 | 0.10 | 34.3 | 27.9 | 31.1 |
| 1424 | 1.28 | 1.32 | 1.30 | 0.11 | 0.10 | 0.10 | 0.09 | 0.06 | 0.08 | 27.9 | 27.1 | 27.5 |
| 1426 | 1.50 | 1.39 | 1.44 | 0.10 | 0.08 | 0.09 | 0.15 | 0.14 | 0.14 | 36.4 | 34.9 | 35.6 |
| 1428 | 1.57 | 1.44 | 1.50 | 0.11 | 0.13 | 0.12 | 0.14 | 0.17 | 0.16 | 37.2 | 40.9 | 39.0 |
| 1430 | 1.38 | 1.32 | 1.35 | 0.10 | 0.12 | 0.11 | 0.09 | 0.16 | 0.12 | 34.4 | 31.4 | 32.9 |
| 1431 | 1.44 | 1.47 | 1.46 | 0.09 | 0.12 | 0.10 | 0.15 | 0.23 | 0.19 | 37.5 | 40.3 | 38.9 |
| 1433 | 1.49 | 1.49 | 1.49 | 0.11 | 0.13 | 0.12 | 0.22 | 0.19 | 0.20 | 40.6 | 41.9 | 41.2 |
| 1436 | 1.56 | 1.45 | 1.50 | 0.10 | 0.11 | 0.10 | 0.16 | 0.15 | 0.16 | 39.5 | 37.0 | 38.2 |
| 1437 | 1.59 | 1.47 | 1.53 | 0.13 | 0.13 | 0.13 | 0.12 | 0.15 | 0.14 | 41.5 | 39.1 | 40.3 |
| 1439 | 1.53 | 1.50 | 1.52 | 0.20 | 0.20 | 0.20 | 0.25 | 0.23 | 0.24 | 54.6 | 50.7 | 52.6 |
| 1442 | 1.82 | 1.83 | 1.82 | 0.24 | 0.23 | 0.24 | 0.30 | 0.32 | 0.31 | 52.8 | 50.8 | 51.8 |
| 1443 | 1.58 | 1.43 | 1.50 | 0.18 | 0.17 | 0.18 | 0.17 | 0.17 | 0.17 | 39.7 | 41.4 | 40.6 |
| 1446 | NOT PREGNANT | | | | | | | | | | | |
| 1448 | 1.52 | 1.36 | 1.44 | 0.14 | 0.17 | 0.16 | 0.18 | 0.12 | 0.15 | 43.9 | 40.2 | 42.0 |
| 1450 | 1.43 | 1.25 | 1.34 | 0.10 | 0.08 | 0.09 | 0.10 | 0.08 | 0.09 | 31.6 | 27.8 | 29.7 |
| 1452 | 1.51 | 1.32 | 1.42 | 0.09 | 0.12 | 0.10 | 0.20 | 0.15 | 0.18 | 34.7 | 31.6 | 33.2 |
| 1455 | 1.51 | 1.49 | 1.50 | 0.16 | 0.19 | 0.18 | 0.22 | 0.22 | 0.22 | 50.8 | 46.9 | 48.8 |
| 1456 | 1.67 | 1.56 | 1.62 | 0.23 | 0.22 | 0.22 | 0.19 | 0.24 | 0.22 | 50.0 | 51.0 | 50.5 |
| 1458 | NOT PREGNANT | | | | | | | | | | | |
| 1459 | 1.56 | 1.50 | 1.53 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 42.0 | 44.3 | 43.2 |
| 1461 | 1.57 | 1.53 | 1.55 | 0.17 | 0.19 | 0.18 | 0.24 | 0.24 | 0.24 | 51.1 | 50.7 | 50.9 |
| 1463 | 1.57 | 1.49 | 1.53 | 0.12 | 0.13 | 0.12 | 0.16 | 0.16 | 0.16 | 38.8 | 37.8 | 38.3 |
| 1465 | 1.45 | 1.60 | 1.52 | 0.21 | 0.16 | 0.18 | 0.15 | 0.21 | 0.18 | 38.5 | 43.9 | 41.2 |
| 1468 | 1.30 | 1.38 | 1.34 | 0.10 | 0.10 | 0.10 | 0.12 | 0.13 | 0.12 | 26.2 | 35.3 | 30.8 |
| 1469 | 1.38 | 1.41 | 1.40 | 0.08 | 0.15 | 0.12 | 0.12 | 0.13 | 0.12 | 36.3 | 35.9 | 36.1 |
| 1472 | 1.55 | 1.56 | 1.56 | 0.16 | 0.15 | 0.16 | 0.22 | 0.22 | 0.22 | 51.1 | 44.7 | 47.9 |
| 1474 | 1.51 | 1.48 | 1.50 | 0.17 | 0.14 | 0.16 | 0.11 | 0.17 | 0.14 | a | a | a |
| 1476 | 1.55 | 1.45 | 1.50 | 0.15 | 0.13 | 0.14 | 0.14 | 0.11 | 0.12 | 41.3 | 34.5 | 37.9 |
| 1477 | 1.22 | 1.33 | 1.28 | 0.06 | 0.10 | 0.08 | 0.03 | 0.11 | 0.07 | 19.5 | 33.4 | 26.4 |
| 1480 | 1.58 | 1.54 | 1.56 | 0.19 | 0.22 | 0.20 | 0.20 | 0.19 | 0.20 | 46.5 | 43.9 | 45.2 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Pup's identification appeared incorrectly recorded; therefore, terminal body weight could not be determined.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E44 (PAGE 4): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP IV 10 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 1482 | 1.50 | 1.41 | 1.46 | 0.10 | 0.13 | 0.12 | 0.20 | 0.19 | 0.20 | 38.1 | 34.0 | 36.0 |
| 1483 | NOT PREGNANT | | | | | | | | | | | |
| 1486 | 1.42 | 1.42 | 1.42 | 0.11 | 0.11 | 0.11 | 0.06 | 0.11 | 0.08 | 32.6 | 36.9 | 34.8 |
| 1488 | 1.51 | 1.43 | 1.47 | 0.14 | 0.11 | 0.12 | 0.22 | 0.16 | 0.19 | 40.1 | 34.6 | 37.4 |
| 1490 | 1.52 | 1.48 | 1.50 | 0.25 | 0.27 | 0.26 | 0.29 | 0.26 | 0.28 | 52.3 | 52.7 | 52.5 |
| 1491 | 1.42 | 1.78 | 1.60 | 0.10 | 0.10 | 0.10 | 0.13 | 0.09 | 0.11 | 36.3 | 29.7 | 33.0 |
| 1494 | 1.56 | 1.42 | 1.49 | 0.15 | 0.14 | 0.14 | 0.19 | 0.17 | 0.18 | 45.4 | 44.0 | 44.7 |
| 1496 | 1.54 | 1.45 | 1.50 | 0.10 | 0.16 | 0.13 | 0.15 | 0.20 | 0.18 | 35.3 | 34.5 | 34.9 |
| 1497 | 1.49 | 1.48 | 1.48 | 0.17 | 0.21 | 0.19 | 0.15 | 0.21 | 0.18 | 43.0 | 49.0 | 46.0 |
| 1500 | 1.45 | 1.41 | 1.43 | 0.14 | 0.17 | 0.16 | 0.18 | 0.24 | 0.21 | 40.5 | 42.8 | 41.6 |
| 1502 | 1.63 | 1.53 | 1.58 | 0.16 | 0.14 | 0.15 | 0.25 | 0.19 | 0.22 | 50.2 | 45.5 | 47.8 |
| 1505 | 1.44 | 1.38 | 1.41 | 0.15 | 0.10 | 0.12 | 0.11 | 0.21 | 0.16 | 30.8 | 34.2 | 32.5 |
| 1507 | 1.39 | 1.29 | 1.34 | 0.08 | 0.10 | 0.09 | 0.21 | 0.19 | 0.20 | 30.9 | 29.7 | 30.3 |
| 1508 | 1.54 | 1.57 | 1.56 | 0.22 | 0.18 | 0.20 | 0.20 | 0.23 | 0.22 | 42.9 | 38.7 | 40.8 |
| 1511 | NOT PREGNANT | | | | | | | | | | | |
| 1513 | 1.63 | 1.49 | 1.56 | 0.17 | 0.17 | 0.17 | 0.14 | 0.15 | 0.14 | 39.2 | 34.8 | 37.0 |
| 1514 | 1.39 | 1.39 | 1.39 | 0.16 | 0.10 | 0.13 | 0.14 | 0.11 | 0.12 | 35.4 | 29.8 | 32.6 |
| 1516 | 1.48 | 1.44 | 1.46 | 0.21 | 0.17 | 0.19 | 0.18 | 0.20 | 0.19 | 48.3 | 43.7 | 46.0 |
| 1517 | 1.57 | 1.44 | 1.50 | 0.11 | 0.09 | 0.10 | 0.14 | 0.15 | 0.14 | 36.8 | 31.8 | 34.3 |
| 1519 | 1.52 | 1.46 | 1.49 | 0.12 | 0.11 | 0.12 | 0.10 | 0.14 | 0.12 | 36.3 | 38.9 | 37.6 |
| 1521 | 1.60 | 1.54 | 1.57 | 0.16 | 0.14 | 0.15 | 0.18 | 0.19 | 0.18 | 42.2 | 38.7 | 40.4 |
| 1523 | 1.53 | 1.44 | 1.48 | 0.13 | 0.15 | 0.14 | 0.23 | 0.22 | 0.22 | 50.4 | 47.0 | 48.7 |
| 1524 | 1.65 | ---- | 1.65 | 0.20 | ---- | 0.20 | 0.21 | ---- | 0.21 | 58.4 | ---- | 58.4 |
| 1527 | 1.39 | 1.28 | 1.34 | 0.11 | 0.08 | 0.10 | 0.12 | 0.08 | 0.10 | 32.6 | 24.8 | 28.7 |
| 1528 | 1.49 | 1.53 | 1.51 | 0.21 | 0.18 | 0.20 | 0.25 | 0.18 | 0.22 | 47.6 | 41.2 | 44.4 |
| 1531 | 1.57 | 1.51 | 1.54 | 0.20 | 0.16 | 0.18 | 0.20 | 0.19 | 0.20 | 46.2 | 40.5 | 43.4 |
| 1533 | 1.45 | 1.44 | 1.44 | 0.16 | 0.16 | 0.16 | 0.15 | 0.18 | 0.16 | 42.1 | 40.7 | 41.4 |
| 1534 | 1.50 | 1.49 | 1.50 | 0.12 | 0.11 | 0.12 | 0.14 | 0.16 | 0.15 | 41.4 | 37.1 | 39.2 |
| 1537 | 1.45 | 1.35 | 1.40 | 0.14 | 0.10 | 0.12 | 0.16 | 0.14 | 0.15 | 37.4 | 36.1 | 36.8 |
| 1539 | 1.46 | 1.55 | 1.50 | 0.14 | 0.13 | 0.14 | 0.18 | 0.16 | 0.17 | 39.6 | 41.1 | 40.4 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E44 (PAGE 5): PUP ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP V — 30 MG/KG/DAY

| RAT/ LITTER NUMBER | BRAIN | | | SPLEEN | | | THYMUS | | | TERMINAL BODY WEIGHT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | T | M | F | T | M | F | T | M | F | T |
| 1541 | 1.39 | 1.44 | 1.42 | 0.13 | 0.11 | 0.12 | 0.16 | 0.15 | 0.16 | 33.2 | 34.8 | 34.0 |
| 1544 | 1.56 | 1.63 | 1.60 | 0.17 | 0.15 | 0.16 | 0.22 | 0.17 | 0.20 | 44.8 | 47.2 | 46.0 |
| 1545 | 1.58 | 1.48 | 1.53 | 0.13 | 0.12 | 0.12 | 0.19 | 0.12 | 0.16 | a | a | a |
| 1546 | 1.38 | 1.40 | 1.39 | 0.12 | 0.09 | 0.10 | 0.10 | 0.14 | 0.12 | 30.6 | 31.9 | 31.2 |
| 1548 | 1.48 | 1.40 | 1.44 | 0.21 | 0.17 | 0.19 | 0.21 | 0.19 | 0.20 | 38.4 | 31.1 | 34.8 |
| 1550 | 1.54 | 1.49 | 1.52 | 0.16 | 0.11 | 0.14 | 0.18 | 0.17 | 0.18 | 40.2 | 37.1 | 38.6 |
| 1552 | 1.44 | 1.39 | 1.42 | 0.12 | 0.13 | 0.12 | 0.17 | 0.14 | 0.16 | 33.9 | 33.6 | 33.8 |
| 1555 | 1.39 | 1.35 | 1.37 | 0.09 | 0.09 | 0.09 | 0.09 | 0.11 | 0.10 | 32.8 | 29.1 | 31.0 |
| 1557 | 1.49 | 1.46 | 1.48 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 34.4 | 34.5 | 34.4 |
| 1558 | 1.48 | 1.55 | 1.52 | 0.16 | 0.18 | 0.17 | 0.14 | 0.20 | 0.17 | 35.8 | 39.4 | 37.6 |
| 1560 | 1.40 | 1.36 | 1.38 | 0.13 | 0.09 | 0.11 | 0.16 | 0.13 | 0.14 | 33.0 | 32.0 | 32.5 |
| 1564 | 1.42 | 1.46 | 1.44 | 0.12 | 0.15 | 0.14 | 0.15 | 0.17 | 0.16 | 35.1 | 37.0 | 36.0 |
| 1565 | 1.44 | 1.27 | 1.36 | 0.12 | 0.10 | 0.11 | 0.17 | 0.16 | 0.16 | 39.1 | 35.9 | 37.5 |
| 1566 | 1.46 | 1.42 | 1.44 | 0.12 | 0.16 | 0.14 | 0.17 | 0.09 | 0.13 | 35.0 | 30.9 | 33.0 |
| 1568 | 1.45 | 1.52 | 1.48 | 0.17 | 0.15 | 0.16 | 0.24 | 0.18 | 0.21 | 46.8 | 44.6 | 45.7 |
| 1571 | 1.46 | 1.44 | 1.45 | 0.07 | 0.07 | 0.07 | 0.11 | 0.10 | 0.10 | 31.6 | 28.7 | 30.2 |
| 1573 | 1.40 | 1.37 | 1.38 | 0.08 | 0.09 | 0.08 | 0.13 | 0.10 | 0.12 | 38.1 | 34.2 | 36.2 |
| 1576 | 1.31 | 1.08 | 1.20 | 0.11 | 0.14 | 0.12 | 0.12 | 0.13 | 0.12 | 30.8 | 31.7 | 31.2 |
| 1578 | NOT PREGNANT | | | | | | | | | | | |
| 1579 | 1.48 | 1.41 | 1.44 | 0.09 | 0.14 | 0.12 | 0.13 | 0.16 | 0.14 | 36.2 | 36.3 | 36.2 |
| 1583 | 1.61 | 1.51 | 1.56 | 0.19 | 0.15 | 0.17 | 0.25 | 0.22 | 0.24 | 39.0 | 40.4 | 39.7 |
| 1584 | 1.66 | 1.48 | 1.57 | 0.28 | 0.26 | 0.27 | 0.33 | 0.23 | 0.28 | 60.9 | 50.7 | 55.8 |
| 1586 | 1.43 | 1.43 | 1.43 | 0.10 | 0.12 | 0.11 | 0.11 | 0.18 | 0.14 | 34.9 | 37.6 | 36.2 |
| 1587 | 1.61 | 1.53 | 1.57 | 0.21 | 0.16 | 0.18 | 0.19 | 0.20 | 0.20 | 46.2 | 40.5 | 43.4 |
| 1588 | 1.38 | 1.37 | 1.38 | 0.11 | 0.15 | 0.13 | 0.14 | 0.11 | 0.12 | 39.2 | 39.3 | 39.2 |
| 1589 | 1.39 | 1.36 | 1.38 | 0.15 | 0.13 | 0.14 | 0.09 | 0.16 | 0.12 | 26.7 | 25.0 | 25.8 |
| 1591 | 1.52 | 1.50 | 1.51 | 0.17 | 0.10 | 0.14 | 0.14 | 0.16 | 0.15 | 36.8 | 38.7 | 37.8 |
| 1593 | 1.45 | 1.41 | 1.43 | 0.28 | 0.28 | 0.28 | 0.33 | 0.32 | 0.32 | 51.2 | 50.6 | 50.9 |
| 1598 | 1.38 | 1.37 | 1.38 | 0.05 | 0.07 | 0.06 | 0.08 | 0.08 | 0.08 | 27.4 | 29.0 | 28.2 |
| 1593 | 1.41 | 1.43 | 1.42 | 0.12 | 0.14 | 0.13 | 0.13 | 0.14 | 0.14 | 40.6 | 38.6 | 39.6 |

M = MALE F = FEMALE T = TOTAL
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Pup's identification appeared incorrectly recorded; therefore, terminal body weight could not be determined.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 1): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP I | | | | | | | | 0 MG/KG/DAY | | | | | | DAY 1 POSTPARTUM | | | | | | | | |
| 1302 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 1.8 | 3.1 | 2.8 | 2.6 | 2.6 | 2.3 | 0.9 | 1.1 | 1.1 | 1.0 | 1.3 | 1.0 | | | | | | | | | | | | |
| 1304 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.8 | 2.6 | 2.4 | 2.6 | 2.5 | 2.4 | 2.4 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.3 | | | | | | | | | | | |
| 1306 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.8 | 2.5 | 2.4 | 2.4 | 2.4 | 2.6 | 2.3 | 2.5 | 2.5 | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | 1.0 | | | | | | | |
| 1308 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.7 | 1.0 | 1.0 | 1.1 | 1.0 | 0.9 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | | | | | | | |
| 1310 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.9 | 2.5 | 2.6 | 2.7 | 2.3 | 2.5 | 2.5 | 2.2 | 2.3 | 2.5 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | |
| 1312 | / | MA | MA | FA | FA | | | | | | | | | | | | | | | | | | | |
| | 2.2 | 3.0 | 3.2 | 1.1 | 1.3 | | | | | | | | | | | | | | | | | | | |
| 1313 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.5 | 2.2 | 2.1 | 2.5 | 2.6 | 2.3 | 1.0 | 1.0 | 1.1 | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | | | | | | | | | | |
| 1316 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1318 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 2.1 | 3.0 | 3.0 | 3.0 | 2.7 | 2.8 | 2.8 | 2.5 | 3.0 | 2.7 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | | | | |
| 1321 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.8 | 2.4 | 2.5 | 2.4 | 2.5 | 2.4 | 3.0 | 2.5 | 2.5 | 1.0 | 1.0 | 1.1 | 1.0 | 1.1 | 1.2 | 1.1 | 1.0 | 1.1 | | | | | | |
| 1325 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 1.7 | 2.8 | 2.4 | 2.6 | 2.4 | 2.5 | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | | | | | | | | |
| 1328 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.9 | 2.5 | 3.2 | 2.5 | 2.6 | 2.6 | 2.5 | 2.5 | 1.1 | 1.0 | 1.1 | 1.4 | 1.0 | 1.2 | | | | | | | | | | |
| 1330 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.7 | 2.5 | 2.5 | 2.3 | 2.7 | 2.6 | 2.6 | 2.7 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | 1.2 | 1.0 | | | | | | | |
| 1331 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | |
| | 2.0 | 2.3 | 2.7 | 2.3 | 2.5 | 2.2 | 2.5 | 2.1 | 2.5 | 2.6 | 2.4 | 2.1 | 2.3 | 1.1 | 1.0 | 1.0 | 1.0 | | | | | | | |
| 1334 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | | |
| | 2.0 | 2.7 | 2.5 | 2.6 | 2.5 | 2.6 | 2.3 | 0.7 | 1.0 | 1.0 | | | | | | | | | | | | | | |
| 1335 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 2.0 | 3.2 | 2.6 | 2.9 | 3.0 | 2.6 | 2.7 | 1.2 | 1.0 | 1.0 | 1.2 | 1.3 | 1.0 | | | | | | | | | | | |
| 1336 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.8 | 2.5 | 2.4 | 2.8 | 2.7 | 2.5 | 2.7 | 2.6 | 1.1 | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | | | | | | | | |
| 1338 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.6 | 2.5 | 2.5 | 2.6 | 2.3 | 2.4 | 2.6 | 2.4 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 | 1.2 | 1.1 | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 2): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP I | | | | | | | | 0 MG/KG/DAY | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | DAY 1 POSTPARTUM | | | | | | | | |
| 1340 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 2.0 | 2.6 | 2.7 | 2.8 | 2.5 | 2.6 | 2.7 | 2.7 | 2.9 | 1.1 | 1.0 | 1.2 | 1.1 | 1.2 | 1.1 | | | | | | | | | |
| 1341 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.5 | 2.6 | 2.4 | 2.2 | 2.5 | 1.3 | 1.0 | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 | 1.0 | | | | | | | | | | | |
| 1342 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.9 | 2.7 | 2.5 | 2.5 | 2.3 | 2.5 | 2.5 | 2.7 | 2.5 | 2.2 | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.2 | | | | | | | |
| 1344 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.8 | 2.7 | 2.7 | 2.6 | 2.5 | 2.4 | 2.6 | 2.5 | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | | | | |
| 1345 | / | MA | MA | MA | MA | MA | MS | FA | FA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | | |
| | 1.7 | 2.8 | 3.0 | 2.7 | 3.0 | 2.8 | | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 | 1.2 | | | | | | | | |
| 1346 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | | | | |
| | 2.0 | 2.9 | 2.9 | 2.5 | 2.6 | 2.6 | 2.4 | 0.9 | 0.9 | 1.0 | 1.0 | | | | | | | | | | | | | |
| 1348 | / | MA | MA | MA | MA | MA | MA | MS | MA | MA | FA | FA | FA | FA | FA | FA | FS | | | | | | | |
| | 2.0 | 2.7 | 3.3 | 2.7 | 2.8 | 2.5 | 2.7 | | 2.5 | 2.4 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | | | | | | | | |
| 1350 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | |
| | 2.3 | 2.6 | 3.0 | 2.6 | 2.5 | 2.6 | 2.5 | 2.5 | 3.0 | 2.5 | 2.4 | 3.4 | 2.5 | 2.5 | 1.1 | 1.2 | 1.2 | 1.1 | | | | | | |
| 1353 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FU | | | | | | | | | |
| | 1.8 | 2.2 | 2.7 | 2.8 | 2.8 | 2.4 | 2.4 | 1.2 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 | | | | | | | | | | |
| 1355 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.5 | 2.5 | 2.7 | 2.4 | 2.7 | 1.1 | 1.0 | 1.1 | 1.1 | 1.2 | 1.0 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | | | | | | | | |
| 1358 | | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | | | | |
| 1359 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | | | | |
| | 1.6 | 2.6 | 2.4 | 2.4 | 2.7 | 2.8 | 0.9 | 0.9 | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 3): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP II | | | | | | | | 1 MG/KG/DAY | | | | | | DAY 1 POSTPARTUM | | | | | | | | |
| 1362 | / | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | | | | |
| | 2.1 | 3.1 | 2.9 | 2.7 | 2.7 | 1.1 | 1.0 | 1.1 | | | | | | | | | | | | | | | | |
| 1363 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | |
| | 1.6 | 2.5 | 2.2 | 2.2 | 2.5 | 2.6 | 2.5 | 2.5 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | | | | | | |
| 1364 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.7 | 2.6 | 2.5 | 2.5 | 2.6 | 2.5 | 2.3 | 2.3 | 1.0 | 1.1 | 1.0 | 1.0 | 0.9 | 0.8 | 1.0 | 0.9 | | | | | | | | |
| 1367 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 2.1 | 2.6 | 3.0 | 2.9 | 2.9 | 2.7 | 2.4 | 2.6 | 2.5 | 1.2 | 1.1 | 1.1 | 0.9 | 1.3 | | | | | | | | | | |
| 1368 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.8 | 2.7 | 2.5 | 2.8 | 2.6 | 2.5 | 2.8 | 2.5 | 2.5 | 0.9 | 1.0 | 0.9 | 1.0 | 1.0 | 1.1 | 1.0 | | | | | | | | |
| 1371 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 2.0 | 2.5 | 2.7 | 2.3 | 2.6 | 2.3 | 2.7 | 2.6 | 2.9 | 2.6 | 2.7 | 2.6 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | | | | | | |
| 1375 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 2.3 | 2.9 | 2.9 | 2.9 | 3.1 | 2.6 | 3.0 | 2.9 | 3.1 | 3.1 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | | | | | |
| 1376 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MS | MS | FA | FA | FA | FA | FA | | | | | | |
| | 2.0 | 2.3 | 2.4 | 2.5 | 2.6 | 2.4 | 2.6 | 2.5 | 2.6 | 2.5 | 2.3 | | | 1.0 | 1.1 | 1.2 | 1.1 | 1.0 | | | | | | |
| 1378 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1379 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.8 | 2.5 | 2.5 | 2.6 | 2.7 | 2.4 | 2.6 | 1.1 | 1.1 | 1.0 | 1.0 | 0.9 | 1.3 | | | | | | | | | | | |
| 1381 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 2.0 | 2.7 | 2.9 | 3.0 | 3.1 | 2.9 | 2.8 | 1.2 | 1.1 | 1.2 | 1.3 | 1.2 | 1.2 | | | | | | | | | | | |
| 1382 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.7 | 2.3 | 2.5 | 2.8 | 2.8 | 2.7 | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 1.2 | 1.1 | 1.2 | | | | | | | | | | |
| 1383 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 1.9 | 2.5 | 2.4 | 2.3 | 2.5 | 2.5 | 3.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | | | | | | | | | | | | |
| 1384 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.8 | 2.5 | 3.1 | 2.6 | 2.4 | 2.7 | 2.8 | 1.1 | 1.1 | 1.2 | 1.0 | 1.2 | 1.1 | 1.0 | | | | | | | | | | |
| 1387 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | |
| | 1.9 | 2.5 | 2.6 | 2.7 | 2.5 | 2.6 | 2.7 | 2.8 | 2.7 | 2.5 | 1.1 | 1.0 | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | | | | | | | |
| 1389 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.7 | 2.3 | 2.5 | 2.6 | 2.4 | 2.6 | 2.4 | 2.3 | 2.2 | 0.9 | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 | 1.0 | 1.1 | | | | | | | |
| 1392 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.8 | 2.5 | 2.4 | 2.6 | 2.6 | 2.5 | 2.2 | 2.4 | 2.5 | 2.5 | 0.9 | 1.0 | 1.0 | 1.1 | 0.9 | 1.0 | 1.0 | 1.0 | | | | | | |
| 1393 | / | MA | MA | MA | MA | MA | MS | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.7 | 2.6 | 2.5 | 2.4 | 2.5 | 2.7 | | 1.0 | 1.0 | 1.0 | 1.2 | 1.1 | 1.2 | | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 4): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP II | | | | | | | 1 MG/KG/DAY | | | | | | | DAY 1 POSTPARTUM | | | | | | | | |
| 1397 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 2.0 | 2.7 | 2.5 | 2.6 | 2.8 | 2.6 | 2.7 | 2.8 | 1.1 | 1.0 | 1.1 | 1.4 | 1.4 | | | | | | | | | | | |
| 1399 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | | |
| | 1.9 | 2.7 | 3.1 | 2.9 | 2.7 | 1.1 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | | | | | | | | | | | | | |
| 1401 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.8 | 2.8 | 2.8 | 3.1 | 2.8 | 2.8 | 1.1 | 1.0 | 1.0 | 1.1 | 1.0 | 1.1 | 1.2 | | | | | | | | | | | |
| 1404 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | |
| | 2.1 | 2.2 | 2.5 | 2.3 | 2.5 | 2.5 | 2.2 | 2.2 | 2.4 | 2.5 | 2.6 | 2.5 | 1.2 | 1.3 | 1.2 | 1.1 | | | | | | | | |
| 1407 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.7 | 2.6 | 2.4 | 2.3 | 2.5 | 2.5 | 2.3 | 2.6 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 0.9 | 1.0 | 1.2 | | | | | | | | |
| 1409 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.8 | 2.4 | 2.2 | 2.4 | 2.6 | 2.5 | 2.5 | 2.5 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | | | | | | | | | | | |
| 1410 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | |
| | 2.0 | 2.5 | 2.3 | 2.5 | 2.3 | 2.4 | 2.3 | 2.5 | 2.3 | 2.2 | 2.3 | 2.2 | 2.5 | 2.5 | 1.2 | 1.0 | 1.0 | 1.0 | | | | | | |
| 1413 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.8 | 2.2 | 2.4 | 2.2 | 2.4 | 2.5 | 2.6 | 2.3 | 1.0 | 1.0 | 1.1 | 0.9 | 1.3 | 0.9 | | | | | | | | | | |
| 1415 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.9 | 2.3 | 2.4 | 2.5 | 2.5 | 2.5 | 2.8 | 2.6 | 1.2 | 1.1 | 1.2 | 1.0 | 1.0 | 1.2 | | | | | | | | | | |
| 1416 | / | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.4 | 2.4 | 2.3 | 2.4 | 1.2 | 1.0 | 1.1 | 1.2 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.3 | 1.0 | | | | | | | | | |
| 1418 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.6 | 2.8 | 2.6 | 2.3 | 2.2 | 2.5 | 2.6 | 1.0 | 1.0 | 1.2 | 1.0 | 1.2 | 1.1 | 1.0 | 1.2 | 1.0 | 1.1 | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 5): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP III | | | | | | | | 3 MG/KG/DAY | | | | | | | | DAY 1 POSTPARTUM | | | | | | |
| 1421 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FD1 | FD1 | | | | | | |
| | 2.0 | 2.7 | 2.5 | 2.3 | 2.3 | 2.4 | 2.6 | 2.3 | 2.5 | 2.3 | 2.6 | 1.0 | 1.2 | 1.0 | 1.2 | 1.0 | | | | | | | | |
| 1424 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.8 | 2.5 | 2.5 | 2.2 | 2.7 | 2.4 | 2.5 | 2.5 | 2.8 | 2.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | | | | | | |
| 1426 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.8 | 2.3 | 2.2 | 2.5 | 2.6 | 2.7 | 2.4 | 2.5 | 0.9 | 0.9 | 1.2 | 1.0 | 1.1 | 1.2 | | | | | | | | | | |
| 1428 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.7 | 2.7 | 2.5 | 2.6 | 2.5 | 2.8 | 2.5 | 1.1 | 1.0 | 1.3 | 1.2 | 1.2 | 1.1 | 1.2 | 1.0 | 1.3 | | | | | | | | |
| 1430 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.6 | 2.6 | 2.6 | 2.5 | 2.7 | 2.6 | 2.7 | 1.2 | 1.0 | 1.0 | 1.2 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | 1.2 | 1.2 | | | | | | |
| 1431 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 2.0 | 2.4 | 2.5 | 2.4 | 2.9 | 2.7 | 2.8 | 2.5 | 2.7 | 2.5 | | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | | | | | | | |
| 1433 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | |
| | 1.8 | 2.7 | 2.7 | 2.7 | 2.2 | 2.2 | 2.3 | 2.6 | 2.5 | 2.8 | 2.2 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 1.1 | 1.1 | 1.0 | | | | | |
| 1436 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | | |
| | 2.1 | 2.9 | 2.6 | 2.6 | 2.7 | 2.7 | 2.5 | 2.4 | 2.5 | 1.1 | 1.0 | 1.0 | 1.1 | | | | | | | | | | | |
| 1437 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 2.0 | 2.7 | 2.7 | 2.3 | 2.6 | 2.5 | 2.6 | 2.7 | 2.9 | 2.5 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | 1.2 | 1.2 | | | | | | | |
| 1439 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FD1 | FS | FS | | | | | | | | | | | |
| | 2.2 | 2.7 | 2.8 | 2.8 | 2.5 | 3.0 | 2.5 | 1.2 | 1.0 | 1.1 | | | | | | | | | | | | | | |
| 1442 | / | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | | | | |
| | 2.3 | 3.5 | 2.8 | 3.2 | 3.2 | 1.2 | 1.2 | 0.9 | | | | | | | | | | | | | | | | |
| 1443 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 2.1 | 2.8 | 2.7 | 3.2 | 2.5 | 2.5 | 2.7 | 2.7 | 2.6 | 1.1 | 1.2 | 1.1 | 1.6 | 1.2 | 1.3 | | | | | | | | | |
| 1446 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1448 | / | MA | MA | MA | MA | MA | MA | MS | MS | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.7 | 2.2 | 2.8 | 2.6 | 2.5 | 2.5 | 2.3 | | | 1.2 | 1.1 | 1.0 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | |
| 1450 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.5 | 2.5 | 2.3 | 2.6 | 2.8 | 1.2 | 1.1 | 1.0 | 1.1 | 1.0 | 0.9 | 1.0 | 1.1 | 0.9 | 1.0 | | | | | | | | | |
| 1452 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.8 | 2.4 | 2.4 | 2.5 | 2.3 | 2.2 | 2.2 | 2.5 | 2.4 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 1.0 | | | | | | | | | |
| 1455 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.9 | 2.7 | 2.5 | 2.5 | 2.7 | 2.5 | 2.4 | 2.6 | 2.8 | 1.1 | 1.2 | 0.9 | 1.0 | 1.2 | 1.0 | 1.1 | | | | | | | | |
| 1456 | / | MA | MA | MA | MA | FA | FA | | | | | | | | | | | | | | | | | |
| | 2.1 | 2.5 | 2.7 | 2.5 | 2.8 | 1.2 | 1.0 | | | | | | | | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 6): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP III | | | | | | | | 3 MG/KG/DAY | | | | | | | | | | | | | | |
| 1458 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1459 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 2.0 | 2.7 | 2.2 | 2.7 | 2.5 | 2.5 | 2.4 | 2.4 | 2.2 | 2.5 | 1.3 | 1.4 | 1.3 | 1.2 | 1.4 | | | | | | | | | |
| 1461 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 1.6 | 2.7 | 2.5 | 2.4 | 2.5 | 1.2 | 1.1 | 1.4 | 1.2 | 1.1 | 1.0 | 1.1 | | | | | | | | | | | | |
| 1463 | / | MA | MA | MA | MA | MA | MA | MA | MS | FA | FA | FA | FA | FA | FA | FS | | | | | | | | |
| | 1.7 | 2.5 | 2.1 | 2.3 | 2.5 | 2.2 | 2.1 | 2.2 | | 1.0 | 1.0 | 0.9 | 1.0 | 1.0 | 1.0 | | | | | | | | | |
| 1465 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.8 | 3.0 | 3.0 | 3.1 | 3.0 | 3.1 | 2.5 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.0 | 1.0 | 1.3 | | | | | | | |
| 1468 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.6 | 2.8 | 2.5 | 2.8 | 2.5 | 2.7 | 1.1 | 1.1 | 1.0 | 1.0 | 1.2 | 1.0 | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | | | | | | | |
| 1469 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | |
| | 2.2 | 2.6 | 2.5 | 2.5 | 2.5 | 2.4 | 2.6 | 2.5 | 2.7 | 2.3 | 1.0 | 1.1 | 1.1 | | | | | | | | | | | |
| 1472 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | | | |
| | 2.0 | 3.0 | 2.9 | 3.0 | 2.7 | 2.7 | 1.3 | 1.1 | 1.1 | 1.2 | 1.2 | | | | | | | | | | | | | |
| 1474 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | |
| | 2.1 | 2.5 | 2.4 | 2.4 | 2.7 | 2.7 | 2.5 | 2.4 | 2.5 | 2.5 | 2.5 | 1.1 | 1.0 | 1.2 | 1.0 | | | | | | | | | |
| 1476 | / | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.6 | 2.2 | 2.3 | 2.5 | 2.2 | 2.5 | 2.6 | 2.3 | | 1.1 | 1.0 | 0.9 | 1.1 | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | | | | | | |
| 1477 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.8 | 2.4 | 2.6 | 2.5 | 2.4 | 2.9 | 2.4 | 2.5 | 2.6 | 1.2 | 1.0 | 1.1 | 1.3 | 0.8 | 1.0 | 1.1 | 1.1 | 1.1 | | | | | | |
| 1480 | / | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.6 | 2.9 | 2.9 | 3.2 | 1.4 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 7): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP IV | | | | | | | | 10 MG/KG/DAY | | | | | | DAY 1 POSTPARTUM | | | | | | | | |
| 1482 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FD1 | FS | | | | | | | |
| | 1.7 | 2.6 | 2.7 | 2.8 | 2.4 | 2.5 | 2.7 | 1.0 | 1.1 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | |
| 1483 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1486 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 2.1 | 2.8 | 2.9 | 3.0 | 3.0 | 2.9 | 2.9 | 2.7 | 2.8 | 2.5 | 1.1 | 1.1 | 1.3 | 1.0 | 1.2 | 1.0 | | | | | | | | |
| 1488 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.9 | 2.8 | 2.8 | 2.5 | 2.3 | 2.7 | 2.5 | 2.4 | 2.8 | 1.0 | 1.2 | 1.1 | 1.2 | 1.0 | 1.1 | 1.0 | | | | | | | | |
| 1490 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | |
| | 2.6 | 3.2 | 3.0 | 3.6 | 3.5 | 3.0 | 2.7 | 3.1 | 1.2 | 1.3 | 1.2 | | | | | | | | | | | | | |
| 1491 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | UU | | | | | | | | |
| | 1.4 | 2.4 | 2.4 | 2.5 | 2.5 | 1.2 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | | | | | |
| 1494 | / | MA | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.9 | 2.4 | 2.4 | 2.6 | 2.6 | 2.5 | 2.4 | 2.7 | 2.6 | | 1.1 | 1.0 | 1.1 | 0.9 | 0.9 | | | | | | | | | |
| 1496 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.9 | 2.8 | 2.7 | 3.0 | 2.6 | 2.9 | 2.6 | 2.5 | 0.9 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | | | | | | | | | | |
| 1497 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 1.6 | 2.5 | 2.6 | 2.7 | 2.7 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 1.1 | 1.0 | | | | | | | | | | | | |
| 1500 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FS | | | | | | | | |
| | 1.9 | 2.7 | 2.3 | 2.6 | 2.4 | 2.5 | 2.2 | 2.2 | 2.2 | 2.4 | 1.1 | 1.0 | 1.0 | 0.9 | 1.1 | | | | | | | | | |
| 1502 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.4 | 2.3 | 2.2 | 2.5 | 2.6 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | | | | | | | | | | |
| 1505 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.7 | 2.4 | 2.5 | 2.5 | 2.3 | 2.6 | 2.5 | 2.5 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 | 1.2 | | | | | | | |
| 1507 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 1.8 | 2.5 | 2.7 | 2.4 | 2.4 | 2.1 | 2.4 | 2.3 | 2.5 | 2.4 | 0.9 | 1.0 | 1.0 | 0.9 | 1.0 | 0.9 | 1.1 | | | | | | | |
| 1508 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.5 | 2.6 | 2.8 | 2.4 | 2.5 | 1.1 | 1.0 | 1.1 | 0.9 | 1.0 | 1.2 | 0.9 | 1.1 | 1.1 | | | | | | | | | | |
| 1511 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1513 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | MS | | | | | | | | | |
| | 2.1 | 3.0 | 2.5 | 2.5 | 2.5 | 2.6 | 2.4 | 2.5 | 2.5 | 2.9 | 1.1 | 1.1 | 1.0 | 1.1 | | | | | | | | | | |
| 1514 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 2.1 | 2.9 | 2.7 | 2.8 | 3.1 | 3.1 | 2.8 | 2.9 | 2.9 | 2.7 | 1.2 | 1.2 | 1.2 | 1.0 | 1.2 | 1.4 | 1.0 | 1.0 | | | | | | |
| 1516 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | |
| | 2.2 | 2.3 | 2.7 | 2.7 | 2.6 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | 1.4 | 1.1 | 1.4 | 1.4 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 8): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # MEAN | DOSAGE GROUP IV | | | | | | | | 10 MG/KG/DAY | | | | | | | | | | DAY 1 POSTPARTUM | | | | |
| 1517 / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| 2.0 | 4.1 | 2.6 | 2.6 | 2.4 | 2.4 | 2.9 | 2.6 | 2.8 | 1.3 | 0.8 | 1.1 | 0.9 | 1.0 | 1.0 | 1.2 | | | | | | | | |
| 1519 / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| 1.9 | 2.8 | 2.7 | 2.7 | 2.3 | 2.9 | 2.5 | 2.8 | 2.9 | 1.2 | 1.0 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | | | | | | | |
| 1521 / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| 2.0 | 2.6 | 2.5 | 2.3 | 2.5 | 2.5 | 2.7 | 2.7 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | | | | | | | | | | | |
| 1523 / | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | | | | | | | | | | | |
| 1.9 | 2.6 | 2.4 | 2.5 | 2.5 | 2.4 | 2.2 | 2.2 | | 1.0 | 1.1 | 1.3 | 1.0 | | | | | | | | | | | |
| 1524 / | MA | MA | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | 3.6 | 3.7 | | | | | | | | | | | | | | | | | | | | | |
| 1527 / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | |
| 1.9 | 2.5 | 2.5 | 2.2 | 2.8 | 2.7 | 2.4 | 2.7 | 2.1 | 2.0 | 2.4 | 2.7 | 1.0 | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | | | | | | |
| 1528 / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | | | | |
| 1.9 | 2.6 | 2.4 | 2.7 | 2.4 | 2.6 | 2.4 | 1.0 | 1.0 | 1.0 | 1.1 | | | | | | | | | | | | | |
| 1531 / | MA | MA | MA | MA | MA | MA | MA | MA | MS | FA | FA | FA | FA | FA | FS | | | | | | | | |
| 1.9 | 2.4 | 2.4 | 2.5 | 2.6 | 2.7 | 2.2 | 2.4 | 2.6 | | 1.0 | 1.1 | 1.1 | 1.0 | 1.2 | | | | | | | | | |
| 1533 / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FD1 | | | | |
| 1.6 | 2.8 | 2.5 | 2.8 | 2.6 | 2.9 | 2.5 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | 1.0 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | |
| 1534 / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| 2.0 | 2.7 | 2.9 | 2.9 | 2.8 | 2.6 | 2.8 | 1.0 | 1.3 | 1.0 | 1.0 | 1.2 | 1.2 | | | | | | | | | | | |
| 1537 / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FS | | | | | | | | |
| 2.1 | 2.7 | 2.5 | 2.6 | 2.7 | 2.5 | 2.5 | 2.8 | 2.5 | 2.5 | 2.5 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | |
| 1539 / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | |
| 2.1 | 2.7 | 2.5 | 2.7 | 2.6 | 2.5 | 2.6 | 2.5 | 2.6 | 2.9 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 9): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP V | | | | | | | | 30 MG/KG/DAY | | | | | | DAY 1 POSTPARTUM | | | | | | | | |
| 1541 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.5 | 2.5 | 2.9 | 2.4 | 2.5 | 1.1 | 1.1 | 1.1 | 1.0 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | | | | | |
| 1544 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | | | | |
| | 1.7 | 2.7 | 2.7 | 2.3 | 2.5 | 2.4 | 2.5 | 1.2 | 1.0 | 1.1 | 1.2 | 1.0 | 1.1 | 1.0 | | | | | | | | | | |
| 1545 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | |
| | 1.8 | 2.5 | 3.1 | 2.3 | 2.7 | 2.9 | 2.7 | 2.4 | 2.5 | 2.5 | 1.1 | 1.0 | 1.1 | 1.0 | 1.1 | 1.2 | 1.1 | 1.2 | 1.1 | 1.2 | | | | |
| 1546 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.9 | 2.5 | 2.5 | 3.1 | 2.5 | 2.7 | 2.5 | 2.7 | 2.5 | 1.2 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | | | | | | | | |
| 1548 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | | | | |
| | 1.4 | 2.4 | 2.4 | 2.4 | 2.5 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | | | | | | | | | | |
| 1550 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.8 | 2.9 | 3.1 | 2.7 | 2.3 | 2.4 | 1.1 | 1.6 | 1.1 | 1.2 | 1.1 | 1.2 | 1.3 | | | | | | | | | | | |
| 1552 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.8 | 2.2 | 2.6 | 2.7 | 2.8 | 2.3 | 2.7 | 2.7 | 1.0 | 1.0 | 1.1 | 0.9 | 1.0 | 1.0 | 1.0 | | | | | | | | | |
| 1555 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.7 | 2.4 | 2.6 | 2.3 | 2.1 | 2.4 | 2.6 | 2.7 | 1.0 | 0.9 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | | | | | | | | |
| 1557 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.6 | 2.7 | 2.8 | 2.7 | 2.5 | 2.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | | | | | | | | | | |
| 1558 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 2.1 | 3.2 | 2.5 | 2.6 | 2.8 | 2.6 | 2.7 | 2.4 | 2.8 | 2.5 | 2.7 | 1.4 | 1.2 | 1.3 | 1.2 | 1.1 | 1.0 | | | | | | | |
| 1560 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.8 | 2.5 | 2.6 | 2.5 | 2.7 | 2.2 | 2.5 | 2.6 | 1.2 | 1.0 | 1.1 | 1.2 | 1.1 | 1.2 | 1.1 | 1.0 | | | | | | | | |
| 1564 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.8 | 2.5 | 2.5 | 2.6 | 2.3 | 2.5 | 2.9 | 1.2 | 1.0 | 1.0 | 1.0 | 1.2 | 1.1 | 1.2 | | | | | | | | | | |
| 1565 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.7 | 2.2 | 2.2 | 2.4 | 2.4 | 2.5 | 2.3 | 1.0 | 1.1 | 0.9 | 1.1 | 1.2 | 1.0 | | | | | | | | | | | |
| 1566 | / | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.4 | 2.6 | 2.9 | 1.1 | 1.1 | 1.1 | 1.3 | 1.2 | 1.2 | 1.1 | 1.3 | 1.0 | 1.1 | 1.0 | 1.2 | 1.1 | | | | | | | | |
| 1568 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 2.2 | 3.3 | 2.5 | 3.2 | 3.1 | 3.2 | 3.1 | 2.6 | 1.3 | 1.5 | 1.4 | 1.4 | 1.2 | 1.2 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 10): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP V | | | | | | | | 30 MG/KG/DAY | | | | | | DAY 1 POSTPARTUM | | | | | | | | |
| 1571 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.8 | 2.6 | 2.5 | 2.3 | 2.5 | 2.8 | 2.6 | 1.4 | 1.3 | 1.2 | 1.2 | 1.4 | 1.1 | 1.2 | | | | | | | | | | |
| 1573 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 1.9 | 2.7 | 2.8 | 2.6 | 2.4 | 3.2 | 2.8 | 2.8 | 1.2 | 1.3 | 1.0 | 1.2 | 1.1 | 1.1 | 1.2 | 1.1 | | | | | | | | |
| 1576 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 2.0 | 2.5 | 2.2 | 2.9 | 2.6 | 2.3 | 2.5 | 2.7 | 2.5 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 | | | | | | | | | | |
| 1578 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1579 | / | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 2.0 | 3.0 | 2.7 | 2.6 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | | | | | | | | |
| 1583 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 1.7 | 2.8 | 2.7 | 2.4 | 2.3 | 2.7 | 1.2 | 1.0 | 1.2 | 1.1 | 1.1 | 1.2 | 1.0 | | | | | | | | | | | |
| 1584 | / | MA | MA | MA | FA | | | | | | | | | | | | | | | | | | | |
| | 2.5 | 2.8 | 3.0 | 2.9 | 1.2 | | | | | | | | | | | | | | | | | | | |
| 1586 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.9 | 2.5 | 2.6 | 2.4 | 2.6 | 2.7 | 2.6 | 2.5 | 1.2 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | | | | | | | | | | |
| 1587 | / | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 1.7 | 2.8 | 2.4 | 2.5 | 2.6 | 2.6 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 1.0 | | | | | | | | | | | | |
| 1588 | / | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 1.5 | 2.5 | 2.8 | 2.8 | 2.4 | 1.1 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 0.9 | | | | | | | | | | |
| 1589 | / | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 1.7 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | 2.4 | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | 1.2 | 1.4 | | | | | | | | | |
| 1591 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | |
| | 2.0 | 2.6 | 2.8 | 3.2 | 2.3 | 2.4 | 2.0 | 2.4 | 2.2 | 2.5 | 2.2 | 1.1 | 1.0 | 1.0 | 1.1 | | | | | | | | | |
| 1593 | / | MA | MA | FA | FA | FA | FA | | | | | | | | | | | | | | | | | |
| | 2.0 | 3.3 | 3.0 | 1.5 | 1.4 | 1.6 | 1.5 | | | | | | | | | | | | | | | | | |
| 1598 | / | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 1.8 | 3.0 | 2.8 | 2.7 | 2.7 | 2.5 | 2.7 | 2.5 | 1.1 | 1.2 | 1.0 | 1.0 | 1.1 | 1.3 | 1.4 | 1.2 | 1.1 | 1.2 | | | | | | |
| 1600 | / | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | | | | | | | | |
| | 2.2 | 2.5 | 2.6 | 2.6 | 2.4 | 2.3 | 2.7 | 2.6 | 2.8 | 2.6 | 2.9 | | 1.1 | 1.1 | 1.1 | 1.2 | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 11): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP I | | | | | | | | 0 MG/KG/DAY | | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1302 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 11.2 | 13.6 | 13.5 | 14.5 | 15.1 | 15.2 | 8.5 | 7.9 | 8.7 | 8.1 | 9.1 | 8.8 | | | | | | | | | | | | |
| 1304 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 11.9 | 15.9 | 15.2 | 14.9 | 14.5 | 15.2 | 13.2 | 8.1 | 8.3 | 9.2 | 10.0 | 9.0 | 9.5 | | | | | | | | | | | |
| 1306 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 10.5 | 14.0 | 13.5 | 12.4 | 13.6 | 13.0 | 12.6 | 13.5 | 12.8 | 8.0 | 7.3 | 7.5 | 7.8 | 8.0 | 8.6 | 7.7 | 7.8 | | | | | | | |
| 1308 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 9.0 | 12.8 | 12.0 | 11.9 | 11.8 | 12.7 | 11.6 | 7.8 | 6.6 | 6.4 | 7.0 | 7.9 | 6.2 | 7.8 | 6.8 | 7.6 | 7.3 | | | | | | | |
| 1310 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 11.7 | 14.6 | 13.3 | 13.0 | 13.4 | 13.4 | 14.3 | 12.9 | 13.3 | 13.8 | 8.6 | 8.0 | 8.2 | 8.6 | 8.7 | | | | | | | | | |
| 1312 | | / MA | MA | FA | FA | | | | | | | | | | | | | | | | | | | |
| | 12.5 | 14.8 | 15.0 | 10.3 | 9.8 | | | | | | | | | | | | | | | | | | | |
| 1313 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FD17 | | | | | | | | | | |
| | 11.3 | 13.3 | 14.0 | 15.0 | 15.6 | 16.0 | 9.1 | 9.3 | 9.9 | 7.1 | 8.1 | 9.1 | 9.2 | | | | | | | | | | | |
| 1316 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1318 | | / MA | MA | MA | MA | MA | MA | MA | MA | MM2 | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 12.3 | 16.3 | 14.6 | 13.5 | 14.7 | 14.9 | 15.0 | 15.5 | 16.3 | | 8.6 | 9.2 | 8.2 | 8.5 | 8.7 | 7.9 | | | | | | | | |
| 1321 | | / MA | MA | MA | MA | MA | MA | MA | MM11 | FA | FA | FA | FA | FA | FA | FA | FA | FD10 | | | | | | |
| | 9.8 | 13.6 | 13.9 | 12.8 | 13.7 | 12.0 | 12.6 | 11.8 | | 7.0 | 7.1 | 6.8 | 7.2 | 6.9 | 7.2 | 7.6 | 6.6 | | | | | | | |
| 1325 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 9.6 | 11.7 | 14.1 | 12.0 | 11.3 | 11.2 | 7.2 | 7.5 | 8.4 | 7.9 | 7.2 | 7.6 | | | | | | | | | | | | |
| 1328 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 11.7 | 14.6 | 15.1 | 12.9 | 14.1 | 14.4 | 15.3 | 14.2 | 7.8 | 9.8 | 8.1 | 8.6 | 8.6 | 8.4 | | | | | | | | | | |
| 1330 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 9.0 | 12.0 | 12.6 | 12.2 | 11.8 | 11.5 | 11.6 | 11.7 | 6.9 | 7.0 | 6.9 | 7.4 | 6.3 | 6.8 | 6.2 | 6.9 | 6.8 | | | | | | | |
| 1331 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MM12 | FA | FA | FA | FA | | | | | | | |
| | 11.4 | 12.5 | 13.0 | 12.0 | 13.2 | 12.7 | 12.7 | 11.9 | 11.9 | 12.4 | 13.3 | 13.2 | | 7.1 | 8.3 | 7.9 | 8.2 | | | | | | | |
| 1334 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | | |
| | 12.3 | 15.2 | 13.9 | 13.8 | 14.9 | 15.2 | 13.5 | 7.8 | 8.5 | 7.8 | | | | | | | | | | | | | | |
| 1335 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 11.5 | 15.6 | 14.2 | 14.6 | 13.0 | 14.2 | 14.0 | 9.0 | 8.3 | 8.8 | 8.6 | 8.3 | 9.1 | | | | | | | | | | | |
| 1336 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 11.6 | 15.0 | 14.0 | 14.3 | 14.9 | 13.8 | 14.5 | 15.5 | 9.2 | 8.7 | 9.2 | 9.4 | 8.7 | 8.2 | 9.4 | 9.1 | | | | | | | | |
| 1338 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FD16 | | | | | | |
| | 10.3 | 13.7 | 12.4 | 10.7 | 14.0 | 14.1 | 12.4 | 12.4 | 12.9 | 6.4 | 8.7 | 7.9 | 8.4 | 8.4 | 7.2 | 8.4 | 7.0 | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 12): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP I | | | | | | | | 0 MG/KG/DAY | | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1340 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 12.2 | 13.2 | 13.1 | 15.5 | 14.9 | 15.4 | 13.3 | 15.6 | 15.2 | 8.6 | 9.9 | 8.9 | 8.7 | 9.0 | 9.0 | | | | | | | | | |
| 1341 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 11.4 | 16.0 | 15.9 | 15.6 | 16.0 | 9.0 | 9.9 | 9.4 | 10.2 | 8.6 | 9.4 | 8.1 | 9.0 | | | | | | | | | | | |
| 1342 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 11.6 | 14.4 | 15.2 | 15.1 | 15.0 | 14.0 | 15.8 | 14.5 | 13.8 | 12.6 | 8.5 | 8.1 | 9.0 | 7.5 | 6.8 | 7.8 | 8.4 | | | | | | | |
| 1344 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 10.9 | 15.2 | 14.7 | 14.5 | 14.6 | 13.2 | 13.2 | 13.5 | 8.0 | 7.2 | 8.4 | 7.5 | 9.3 | 8.0 | 8.4 | 8.0 | | | | | | | | |
| 1345 | | / MA | MA | MA | MA | MD4 | MS | FA | FA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | | |
| | 10.8 | 15.6 | 15.4 | 14.6 | 15.1 | | | 8.5 | 9.4 | 8.6 | 9.3 | 8.2 | 9.2 | 9.1 | 8.8 | 8.3 | | | | | | | | |
| 1346 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | | | | |
| | 11.6 | 13.6 | 13.0 | 14.4 | 14.0 | 14.5 | 14.1 | 8.5 | 7.5 | 9.2 | 7.4 | | | | | | | | | | | | | |
| 1348 | | / MA | MA | MA | MA | MA | MA | MS | MA | MA | FA | FA | FA | FA | FA | FA | FS | | | | | | | |
| | 11.2 | 13.3 | 14.1 | 14.6 | 13.2 | 14.3 | 13.4 | | 14.2 | 14.7 | 7.7 | 7.9 | 7.2 | 8.8 | 7.2 | 6.9 | | | | | | | | |
| 1350 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | |
| | 10.5 | 12.8 | 11.6 | 12.2 | 12.7 | 11.5 | 12.5 | 11.1 | 9.8 | 10.9 | 12.8 | 11.4 | 11.3 | 12.2 | 6.3 | 6.2 | 6.3 | 7.7 | | | | | | |
| 1353 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FU | | | | | | | | | |
| | 10.6 | 14.9 | 13.9 | 13.0 | 12.5 | 13.5 | 13.3 | 7.9 | 8.0 | 8.6 | 7.9 | 7.7 | 8.7 | 8.6 | | | | | | | | | | |
| 1355 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 10.4 | 14.6 | 15.2 | 14.6 | 15.1 | 8.7 | 8.6 | 8.6 | 8.8 | 8.2 | 9.0 | 9.1 | 8.4 | 9.3 | 8.7 | 8.4 | | | | | | | | |
| 1358 | | NOT PREGNANT; MATING NOT CONFIRMED | | | | | | | | | | | | | | | | | | | | | | |
| 1359 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | | | | |
| | 10.8 | 14.4 | 14.5 | 13.3 | 14.9 | 13.6 | 8.5 | 8.5 | 9.0 | 8.6 | 9.2 | 7.8 | 8.8 | 8.8 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 13): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP II | | | | | | | | | 1 MG/KG/DAY | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1362 | | / MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | | | | |
| | 11.9 | 14.4 | 14.9 | 14.7 | 13.6 | 8.8 | 8.5 | 8.5 | | | | | | | | | | | | | | | | |
| 1363 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FD4 | FS | | | | | |
| | 10.4 | 13.1 | 13.5 | 12.9 | 15.6 | 12.7 | 13.5 | 12.6 | 8.7 | 8.9 | 8.3 | 8.1 | 7.8 | 8.3 | 7.6 | 8.7 | 6.9 | | | | | | | |
| 1364 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 10.4 | 14.1 | 14.0 | 13.1 | 13.3 | 12.5 | 13.5 | 13.0 | 7.6 | 8.7 | 8.1 | 8.1 | 7.2 | 7.7 | 7.9 | 7.5 | | | | | | | | |
| 1367 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 11.6 | 13.3 | 13.5 | 13.7 | 14.4 | 14.3 | 14.4 | 13.4 | 13.3 | 8.8 | 8.5 | 7.6 | 8.2 | 7.6 | | | | | | | | | | |
| 1368 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 11.5 | 15.4 | 13.6 | 13.5 | 14.9 | 15.3 | 13.4 | 14.0 | 14.1 | 8.6 | 8.1 | 8.3 | 8.7 | 9.2 | 7.7 | 8.3 | | | | | | | | |
| 1371 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FD9 | | | | | | |
| | 11.2 | 13.3 | 12.5 | 13.6 | 13.0 | 13.3 | 12.1 | 12.2 | 12.7 | 11.3 | 13.6 | 11.9 | 7.7 | 8.1 | 7.4 | 8.9 | 7.8 | | | | | | | |
| 1375 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FD17 | | | | | | | | | |
| | 12.2 | 15.4 | 14.1 | 13.0 | 14.6 | 14.3 | 14.6 | 14.3 | 13.2 | 13.8 | 8.9 | 7.9 | 6.4 | 8.6 | | | | | | | | | | |
| 1376 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MS | MS | FA | FA | FA | FA | FA | | | | | | |
| | 11.5 | 13.0 | 12.9 | 13.9 | 12.7 | 13.5 | 13.0 | 12.4 | 12.9 | 13.6 | 12.6 | | | 7.8 | 8.3 | 8.7 | 8.9 | 8.5 | | | | | | |
| 1378 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1379 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 10.5 | 12.6 | 14.1 | 12.6 | 13.4 | 13.2 | 13.7 | 7.8 | 7.9 | 6.8 | 8.3 | 8.0 | 7.4 | | | | | | | | | | | |
| 1381 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 12.3 | 16.1 | 15.4 | 15.0 | 15.2 | 16.0 | 16.1 | 8.1 | 9.2 | 9.7 | 9.4 | 8.6 | 9.0 | | | | | | | | | | | |
| 1382 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 10.7 | 14.5 | 13.5 | 14.3 | 13.8 | 14.9 | 9.2 | 8.4 | 8.4 | 8.8 | 8.0 | 8.3 | 8.6 | 8.8 | | | | | | | | | | |
| 1383 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 11.9 | 14.7 | 15.2 | 15.5 | 14.1 | 13.8 | 14.9 | 8.5 | 7.6 | 8.5 | 9.4 | 9.0 | | | | | | | | | | | | |
| 1384 | | / MA | MA | MA | MA | MA | MM4 | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 10.6 | 14.2 | 14.2 | 15.0 | 14.6 | 13.0 | | 8.3 | 7.7 | 8.0 | 7.2 | 7.4 | 9.0 | 8.0 | | | | | | | | | | |
| 1387 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | |
| | 11.3 | 13.7 | 13.6 | 13.4 | 12.9 | 13.0 | 14.3 | 13.1 | 14.7 | 14.3 | 8.5 | 8.5 | 8.3 | 8.1 | 8.1 | 8.7 | 8.2 | | | | | | | |
| 1389 | | / MA | MA | MA | MA | MA | MA | MA | MD7 | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 10.0 | 12.2 | 13.0 | 13.9 | 13.0 | 15.1 | 13.4 | 11.5 | | 7.7 | 7.0 | 7.3 | 7.8 | 6.8 | 7.1 | 8.0 | 6.8 | | | | | | | |
| 1392 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 9.6 | 10.8 | 11.6 | 11.8 | 11.8 | 11.8 | 11.6 | 11.3 | 12.5 | 12.4 | 7.5 | 7.4 | 7.2 | 7.2 | 7.8 | 7.0 | 7.0 | 6.5 | | | | | | |
| 1393 | | / MA | MA | MA | MA | MA | MS | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 11.3 | 14.7 | 15.0 | 14.8 | 15.5 | 15.4 | | 8.0 | 8.1 | 7.6 | 9.0 | 8.1 | 8.3 | | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 14): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP II | | | | | | | | 1 MG/KG/DAY | | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1397 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 13.2 | 16.0 | 15.0 | 15.6 | 15.5 | 16.3 | 16.9 | 15.6 | 9.9 | 9.6 | 9.7 | 9.1 | 9.3 | | | | | | | | | | | |
| 1399 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | | |
| | 12.1 | 16.5 | 16.6 | 17.1 | 14.4 | 9.7 | 9.8 | 9.3 | 9.4 | 9.0 | 9.6 | | | | | | | | | | | | | |
| 1401 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 10.9 | 14.0 | 15.0 | 13.4 | 15.7 | 14.6 | 8.4 | 8.4 | 8.0 | 7.2 | 8.8 | 8.5 | 9.2 | | | | | | | | | | | |
| 1404 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | |
| | 11.6 | 13.5 | 12.1 | 12.8 | 13.4 | 12.1 | 13.6 | 13.6 | 15.0 | 13.0 | 13.5 | 8.7 | 8.2 | 9.2 | 7.2 | 8.4 | | | | | | | | |
| 1407 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 10.4 | 12.0 | 13.3 | 12.9 | 13.1 | 12.1 | 13.5 | 12.2 | 8.7 | 7.7 | 8.8 | 8.4 | 8.7 | 8.1 | 8.3 | 8.8 | | | | | | | | |
| 1409 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 13.3 | 16.8 | 15.9 | 16.6 | 15.0 | 15.5 | 16.3 | 15.8 | 8.9 | 9.8 | 9.4 | 9.6 | 10.0 | | | | | | | | | | | |
| 1410 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FM5 | | | | | | |
| | 12.9 | 14.8 | 14.1 | 13.3 | 14.8 | 13.8 | 14.2 | 14.0 | 16.2 | 13.0 | 13.9 | 13.0 | 13.8 | 14.4 | 7.9 | 8.0 | 7.9 | | | | | | | |
| 1413 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 11.7 | 14.8 | 13.8 | 14.3 | 12.2 | 15.3 | 13.8 | 14.5 | 8.8 | 8.0 | 8.1 | 9.4 | 9.3 | 9.3 | | | | | | | | | | |
| 1415 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 10.2 | 12.5 | 12.7 | 12.6 | 11.9 | 12.7 | 12.2 | 11.5 | 8.0 | 6.8 | 8.0 | 8.5 | 7.3 | 7.7 | | | | | | | | | | |
| 1416 | | / MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 9.1 | 14.4 | 12.8 | 13.0 | 8.1 | 8.1 | 8.0 | 7.3 | 8.1 | 7.6 | 8.5 | 7.9 | 8.0 | 8.0 | 7.8 | | | | | | | | | |
| 1418 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FM14 | FD3 | FM3 | | | | | | | |
| | 10.4 | 13.6 | 15.5 | 13.6 | 11.5 | 15.4 | 13.0 | 8.8 | 8.2 | 7.8 | 7.3 | 7.1 | 6.1 | 7.6 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 15): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP III | | | | | | | | 3 MG/KG/DAY | | | | | | | | DAY 22 POSTPARTUM | | | | | | |
| 1421 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FD1 | FD1 | | | | | | |
| | 10.5 | 11.9 | 12.8 | 11.4 | 12.5 | 11.9 | 12.3 | 11.6 | 11.8 | 11.7 | 12.5 | 8.1 | 6.7 | 8.3 | 7.0 | 7.5 | | | | | | | | |
| 1424 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 9.0 | 10.6 | 10.6 | 11.2 | 12.5 | 10.8 | 10.9 | 12.0 | 10.1 | 10.2 | 6.6 | 6.5 | 6.7 | 6.6 | 6.8 | 7.4 | 7.1 | 6.7 | | | | | | |
| 1426 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 10.4 | 11.3 | 12.6 | 12.5 | 14.4 | 12.6 | 13.4 | 12.3 | 7.6 | 6.9 | 8.4 | 7.1 | 8.7 | 7.7 | | | | | | | | | | |
| 1428 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 10.6 | 13.8 | 14.6 | 13.3 | 14.7 | 15.0 | 12.6 | 7.8 | 8.8 | 8.2 | 7.8 | 8.6 | 7.7 | 8.8 | 8.6 | 8.6 | | | | | | | | |
| 1430 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 9.5 | 13.3 | 13.2 | 13.8 | 12.8 | 11.9 | 13.6 | 6.7 | 8.6 | 8.4 | 7.4 | 6.9 | 6.7 | 8.9 | 7.7 | 6.5 | 7.7 | 7.3 | | | | | | |
| 1431 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | FA | FM2 | | | | | | | |
| | 12.8 | 16.2 | 14.8 | 15.2 | 15.0 | 14.9 | 15.4 | 16.5 | 14.9 | 13.9 | | 7.9 | 7.8 | 9.4 | 9.1 | 8.7 | | | | | | | | |
| 1433 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FD8 | | | | | |
| | 11.4 | 14.6 | 14.4 | 13.3 | 13.8 | 13.1 | 13.8 | 13.5 | 12.7 | 14.1 | 13.1 | 8.0 | 8.6 | 9.0 | 8.7 | 8.2 | 7.5 | 8.3 | | | | | | |
| 1436 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | | |
| | 11.7 | 12.5 | 13.4 | 13.9 | 12.7 | 13.6 | 13.3 | 12.4 | 13.5 | 8.8 | 8.8 | 8.4 | 8.7 | | | | | | | | | | | |
| 1437 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 10.6 | 13.3 | 13.5 | 12.1 | 13.2 | 14.3 | 12.9 | 13.7 | 13.0 | 12.7 | 6.6 | 8.0 | 8.8 | 6.8 | 6.4 | 6.2 | 8.6 | | | | | | | |
| 1439 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FD1 | FS | FS | | | | | | | | | | | |
| | 13.9 | 15.4 | 15.8 | 16.7 | 15.8 | 16.3 | 14.9 | 10.6 | 9.9 | 9.5 | | | | | | | | | | | | | | |
| 1442 | | / MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | | | | |
| | 13.0 | 17.0 | 15.4 | 15.6 | 14.2 | 10.7 | 9.0 | 9.0 | | | | | | | | | | | | | | | | |
| 1443 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 11.4 | 13.8 | 14.6 | 14.2 | 13.9 | 14.3 | 13.1 | 15.1 | 12.0 | 7.5 | 8.6 | 7.4 | 8.9 | 8.7 | 8.0 | | | | | | | | | |
| 1446 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1448 | | / MA | MA | MA | MA | MA | MA | MS | MS | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 10.2 | 13.8 | 13.5 | 14.5 | 13.1 | 13.7 | 12.8 | | | 7.1 | 8.8 | 8.1 | 7.6 | 8.3 | 6.8 | 8.1 | 7.0 | | | | | | | |
| 1450 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 9.3 | 12.8 | 12.1 | 12.4 | 13.6 | 7.9 | 8.4 | 8.1 | 7.7 | 7.3 | 7.7 | 8.8 | 8.2 | 7.4 | 7.4 | | | | | | | | | |
| 1452 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FM2 | | | | | | | | | |
| | 10.6 | 10.9 | 11.6 | 12.4 | 12.9 | 11.8 | 12.5 | 12.6 | 11.6 | 9.4 | 8.0 | 8.5 | 7.9 | 7.2 | | | | | | | | | | |
| 1455 | | / MA | MA | MA | MA | MA | MM6 | MD5 | MM3 | FA | FA | FA | FA | FA | FM6 | FD6 | | | | | | | | |
| | 10.9 | 13.5 | 13.8 | 13.8 | 14.6 | 12.7 | | | | 8.0 | 8.6 | 7.9 | 7.8 | 8.3 | | | | | | | | | | |
| 1456 | | / MA | MA | MA | MA | FA | FA | | | | | | | | | | | | | | | | | |
| | 12.2 | 12.6 | 12.3 | 14.2 | 15.9 | 9.1 | 9.4 | | | | | | | | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 16): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP III | | | | | | | | 3 MG/KG/DAY | | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1458 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1459 | | / MA | MA | MA | MA | MA | MA | MA | MA | MD2 | FA | FA | FA | FA | FA | | | | | | | | | |
| | 12.1 | 13.6 | 14.7 | 14.7 | 15.0 | 14.1 | 14.3 | 15.9 | 14.0 | | 10.0 | 9.0 | 7.7 | 7.0 | 7.0 | | | | | | | | | |
| 1461 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 12.1 | 15.1 | 15.5 | 15.8 | 14.6 | 10.0 | 10.4 | 10.2 | 10.1 | 10.1 | 10.2 | 10.9 | | | | | | | | | | | | |
| 1463 | | / MA | MA | MA | MA | MA | MA | MA | MS | FA | FA | FA | FA | FA | FA | FS | | | | | | | | |
| | 10.8 | 13.4 | 14.1 | 12.4 | 13.2 | 13.6 | 13.5 | 14.0 | | 8.4 | 8.0 | 7.3 | 7.1 | 8.2 | 7.3 | | | | | | | | | |
| 1465 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 11.1 | 14.1 | 16.1 | 14.5 | 15.4 | 14.0 | 15.5 | 9.3 | 9.5 | 9.0 | 8.0 | 8.8 | 8.7 | 8.7 | 8.5 | 8.5 | 9.3 | | | | | | | |
| 1468 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 9.2 | 12.7 | 13.3 | 11.4 | 12.7 | 13.4 | 6.3 | 8.5 | 8.3 | 7.7 | 8.6 | 7.7 | 7.9 | 7.2 | 7.5 | 6.1 | 7.5 | | | | | | | |
| 1469 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | |
| | 11.8 | 13.8 | 13.2 | 14.2 | 12.6 | 12.0 | 12.4 | 11.6 | 12.6 | 13.0 | 8.6 | 8.3 | 9.0 | | | | | | | | | | | |
| 1472 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | | | |
| | 12.4 | 14.6 | 16.1 | 15.0 | 14.5 | 15.1 | 9.8 | 10.2 | 9.7 | 8.3 | 11.2 | | | | | | | | | | | | | |
| 1474a | | | | | | | | | | | | | | | | | | | | | | | | |
| 1476 | | / MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| | 9.9 | 11.9 | 13.6 | 12.9 | 11.3 | 13.3 | 12.4 | 12.0 | | 8.6 | 8.0 | 7.7 | 8.0 | 7.7 | 8.7 | 8.2 | 7.0 | 7.1 | | | | | | |
| 1477 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FD6 | | | | | | |
| | 9.6 | 14.3 | 12.9 | 10.3 | 9.2 | 11.3 | 11.8 | 12.6 | 10.2 | 7.2 | 7.3 | 7.4 | 7.7 | 8.3 | 8.0 | 6.5 | 8.3 | | | | | | | |
| 1480 | | / MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 10.1 | 14.1 | 14.4 | 16.0 | 8.8 | 9.1 | 8.8 | 8.7 | 7.9 | 7.6 | 8.4 | 9.0 | 9.1 | 9.0 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).
a. Anogenital distances for litter 1474 were not recorded.

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 17): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP IV | | | | | | | | | 10 MG/KG/DAY | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1482 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FD1 | FS | | | | | | | |
| | 10.4 | 13.4 | 12.6 | 12.9 | 13.4 | 14.4 | 12.6 | 8.0 | 8.9 | 9.1 | 7.8 | 8.5 | 7.8 | 8.6 | 7.3 | | | | | | | | | |
| 1483 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1486 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 11.5 | 13.3 | 12.2 | 14.8 | 13.2 | 14.9 | 12.8 | 14.1 | 13.6 | 12.4 | 8.9 | 8.2 | 7.9 | 8.9 | 9.1 | 8.4 | | | | | | | | |
| 1488 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 12.7 | 15.2 | 15.5 | 15.0 | 16.8 | 16.6 | 15.1 | 16.9 | 12.6 | 9.6 | 9.4 | 10.0 | 8.7 | 9.4 | 10.0 | 10.4 | | | | | | | | |
| 1490 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | | | | | | | | | | | | | |
| | 14.4 | 16.1 | 15.4 | 15.5 | 17.7 | 17.6 | 16.6 | 17.3 | 9.5 | 9.3 | 8.6 | | | | | | | | | | | | | |
| 1491 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | UU | | | | | | | | |
| | 9.4 | 13.9 | 13.8 | 12.1 | 12.2 | 7.5 | 8.3 | 8.4 | 7.7 | 8.1 | 8.5 | 7.8 | 8.8 | 7.7 | 6.9 | | | | | | | | | |
| 1494 | | / MA | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | FA | | | | | | | | | |
| | 11.9 | 14.6 | 13.0 | 14.9 | 13.7 | 15.8 | 14.1 | 14.1 | 12.7 | | 8.5 | 8.3 | 8.8 | 7.0 | 8.8 | | | | | | | | | |
| 1496 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 11.0 | 13.8 | 13.6 | 12.9 | 13.6 | 15.1 | 13.9 | 12.8 | 8.5 | 7.8 | 7.1 | 8.3 | 8.4 | 7.2 | | | | | | | | | | |
| 1497 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| | 11.3 | 12.9 | 14.7 | 14.6 | 16.3 | 9.2 | 9.9 | 10.0 | 9.5 | 9.3 | 8.7 | 9.0 | | | | | | | | | | | | |
| 1500 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FS | | | | | | | | |
| | 11.9 | 12.5 | 13.3 | 14.3 | 13.8 | 13.7 | 15.0 | 13.1 | 14.4 | 14.8 | 9.0 | 8.1 | 8.3 | 8.1 | 7.8 | | | | | | | | | |
| 1502 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FD2 | | | | | | | | | | |
| | 11.0 | 14.7 | 15.7 | 16.2 | 16.0 | 8.9 | 7.5 | 9.4 | 9.3 | 9.2 | 7.5 | 8.1 | 8.9 | | | | | | | | | | | |
| 1505 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 9.1 | 11.0 | 12.6 | 11.5 | 9.0 | 11.0 | 12.0 | 11.3 | 7.7 | 7.8 | 6.2 | 8.3 | 7.6 | 7.2 | 7.7 | 7.7 | 6.6 | | | | | | | |
| 1507 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 10.2 | 12.9 | 12.3 | 11.7 | 12.4 | 13.4 | 11.9 | 12.5 | 12.0 | 11.6 | 7.5 | 7.9 | 8.0 | 7.3 | 8.3 | 7.0 | 7.2 | | | | | | | |
| 1508 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FD2 | | | | | | | | | | |
| | 9.9 | 12.7 | 14.3 | 13.0 | 14.4 | 8.2 | 8.5 | 7.4 | 8.2 | 7.9 | 9.0 | 7.9 | 7.7 | | | | | | | | | | | |
| 1511 | | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1513 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | MS | | | | | | | | | |
| | 11.9 | 12.5 | 13.7 | 14.3 | 13.3 | 13.7 | 13.6 | 13.0 | 13.5 | 14.0 | 7.0 | 8.8 | 8.7 | 8.5 | | | | | | | | | | |
| 1514 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FD12 | | | | | | |
| | 11.3 | 14.8 | 15.0 | 13.8 | 14.0 | 13.1 | 14.4 | 13.6 | 13.3 | 12.0 | 7.3 | 8.6 | 8.5 | 9.1 | 7.4 | 8.1 | 7.5 | | | | | | | |
| 1516 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | |
| | 12.3 | 13.4 | 14.5 | 13.0 | 14.3 | 13.9 | 15.2 | 14.4 | 13.4 | 14.6 | 7.8 | 8.7 | 9.0 | 8.3 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 18): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP IV | | | | | | | | 10 MG/KG/DAY | | | | | | | DAY 22 POSTPARTUM | | | | | | | |
| 1517 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 9.6 | 12.4 | 11.7 | 11.8 | 11.6 | 12.9 | 11.5 | 10.9 | 10.6 | 7.2 | 6.9 | 8.0 | 7.0 | 7.2 | 6.9 | 6.9 | | | | | | | | |
| 1519 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FD18 | | | | | | | |
| | 10.6 | 13.7 | 14.5 | 13.5 | 14.1 | 11.8 | 14.2 | 13.6 | 13.4 | 8.0 | 6.3 | 8.0 | 7.1 | 7.0 | 8.2 | 6.4 | | | | | | | | |
| 1521 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 11.0 | 12.7 | 13.0 | 14.0 | 13.6 | 12.0 | 13.0 | 12.5 | 8.8 | 8.6 | 8.3 | 7.7 | 8.4 | | | | | | | | | | | |
| 1523 | | / MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | | | | | | | | | | | |
| | 12.4 | 14.8 | 14.9 | 15.2 | 14.3 | 12.1 | 15.0 | 15.5 | | 9.4 | 8.4 | 8.0 | 8.8 | | | | | | | | | | | |
| 1524 | | / MA | MA | | | | | | | | | | | | | | | | | | | | | |
| | 17.5 | 18.4 | 16.6 | | | | | | | | | | | | | | | | | | | | | |
| 1527 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MM5 | FA | FA | FA | FA | FA | FA | | | | | | |
| | 9.2 | 11.1 | 11.3 | 10.8 | 12.4 | 11.3 | 11.6 | 11.6 | 12.7 | 10.0 | 9.2 | | 6.5 | 6.8 | 5.5 | 5.1 | 6.4 | 5.7 | | | | | | |
| 1528 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | | | | | |
| | 11.6 | 14.4 | 14.1 | 15.0 | 14.0 | 13.5 | 13.1 | 8.2 | 7.8 | 8.2 | 8.0 | | | | | | | | | | | | | |
| 1531 | | / MA | MA | MA | MA | MA | MA | MA | MA | MS | FA | FA | FA | FA | FA | FS | | | | | | | | |
| | 11.8 | 13.3 | 14.4 | 15.0 | 14.8 | 13.4 | 12.9 | 13.7 | 13.9 | | 9.3 | 8.3 | 9.0 | 5.9 | 9.2 | | | | | | | | | |
| 1533 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FM6 | FD1 | | | | |
| | 9.9 | 13.7 | 14.6 | 13.8 | 11.0 | 12.9 | 12.0 | 8.6 | 8.0 | 8.0 | 6.9 | 9.1 | 8.1 | 8.9 | 7.3 | 7.5 | 8.6 | 9.0 | | | | | | |
| 1534 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 10.2 | 12.6 | 12.7 | 14.4 | 12.7 | 12.7 | 12.4 | 8.0 | 7.1 | 7.3 | 7.5 | 7.9 | 7.5 | | | | | | | | | | | |
| 1537 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FS | | | | | | | | |
| | 10.6 | 11.8 | 12.0 | 12.1 | 11.6 | 12.9 | 13.4 | 10.5 | 12.0 | 11.6 | 12.4 | 7.5 | 7.3 | 7.7 | 6.1 | | | | | | | | | |
| 1539 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 12.0 | 14.8 | 14.0 | 14.9 | 14.1 | 13.6 | 14.3 | 15.2 | 13.3 | 13.1 | 8.1 | 8.1 | 7.9 | 8.3 | 8.9 | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 19): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # | MEAN | DOSAGE GROUP V | | | | | | | | 30 MG/KG/DAY | | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1541 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 9.7 | 12.4 | 13.9 | 13.8 | 13.6 | 9.0 | 8.0 | 7.8 | 8.3 | 8.3 | 8.1 | 8.1 | 7.8 | 8.2 | 8.8 | | | | | | | | | |
| 1544 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FM2 | FS | | | | | | | | | |
| | 11.4 | 14.6 | 12.4 | 13.9 | 16.0 | 12.5 | 15.0 | 9.1 | 8.9 | 8.3 | 8.7 | 9.1 | 8.7 | | | | | | | | | | | |
| 1545 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FD16 | FD3 | | | | |
| | 9.8 | 12.0 | 11.8 | 12.7 | 11.4 | 14.3 | 12.8 | 12.3 | 10.6 | 10.0 | 7.6 | 7.8 | 7.0 | 7.6 | 6.8 | 8.2 | 6.3 | 7.3 | | | | | | |
| 1546 | | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 9.6 | 12.4 | 11.7 | 12.3 | 11.8 | 12.6 | 12.2 | 12.3 | 10.8 | 7.3 | 7.1 | 7.2 | 6.8 | 6.6 | 6.3 | 6.9 | | | | | | | | |
| 1548 | | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FS | | | | | | | | | |
| | 9.6 | 12.3 | 14.5 | 13.3 | 13.9 | 7.8 | 8.1 | 8.1 | 8.6 | 7.7 | 7.9 | 7.5 | 7.2 | 8.3 | | | | | | | | | | |
| 1550 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 10.5 | 13.4 | 13.1 | 14.4 | 14.0 | 14.0 | 9.3 | 8.6 | 8.6 | 7.1 | 8.7 | 7.4 | 7.9 | | | | | | | | | | | |
| 1552 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| | 10.2 | 13.0 | 13.2 | 13.4 | 13.4 | 12.6 | 11.6 | 12.0 | 7.9 | 7.7 | 8.1 | 7.7 | 6.8 | 7.9 | 6.8 | | | | | | | | | |
| 1555 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FD6 | | | | | | | | |
| | 9.5 | 11.5 | 12.3 | 11.8 | 11.7 | 11.6 | 12.2 | 12.5 | 7.3 | 7.1 | 6.7 | 7.6 | 7.2 | 7.0 | 6.2 | | | | | | | | | |
| 1557 | | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 10.3 | 14.0 | 13.8 | 13.1 | 13.5 | 12.7 | 8.6 | 8.3 | 8.2 | 8.0 | 8.3 | 8.0 | 8.7 | 9.2 | | | | | | | | | | |
| 1558 | | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | |
| | 11.4 | 13.1 | 13.8 | 14.4 | 13.4 | 12.9 | 14.2 | 13.4 | 13.9 | 12.5 | 14.2 | 9.0 | 8.1 | 7.2 | 8.7 | 7.1 | 7.0 | | | | | | | |
| 1560 | | / MA | MA | MA | MA | MA | MA | MD7 | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 9.2 | 12.6 | 11.7 | 12.0 | 11.8 | 12.5 | 11.8 | | 7.0 | 8.0 | 6.4 | 7.0 | 8.8 | 6.3 | 6.3 | 6.0 | | | | | | | | |
| 1564 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 10.3 | 13.1 | 13.0 | 13.3 | 12.4 | 13.0 | 13.3 | 8.1 | 7.2 | 8.1 | 7.9 | 8.3 | 8.2 | 7.5 | | | | | | | | | | |
| 1565 | | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| | 11.8 | 14.9 | 14.0 | 14.2 | 14.5 | 13.8 | 14.9 | 9.6 | 9.4 | 8.5 | 9.1 | 9.1 | 9.4 | | | | | | | | | | | |
| 1566 | | / MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| | 8.3 | 13.1 | 12.2 | 8.1 | 7.9 | 7.4 | 7.5 | 7.8 | 7.2 | 7.4 | 8.2 | 8.3 | 7.1 | 7.8 | 8.3 | 6.9 | | | | | | | | |
| 1568 | | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| | 11.9 | 14.3 | 15.0 | 14.7 | 13.0 | 14.2 | 15.6 | 14.2 | 8.8 | 8.9 | 8.5 | 9.0 | 9.4 | 9.7 | | | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

PROTOCOL 418-020: ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS (SPONSOR'S STUDY NUMBER: T-6889.6)

TABLE E45 (PAGE 20): ANOGENITAL DISTANCE - INDIVIDUAL DATA - F2 GENERATION PUPS

| PUP # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAT # MEAN | DOSAGE GROUP V | | | | | | | | 30 MG/KG/DAY | | | | | | | | | | | | | DAY 22 POSTPARTUM | |
| 1571 | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| 9.7 | 12.2 | 11.9 | 13.4 | 11.6 | 13.0 | 12.5 | 7.2 | 8.0 | 7.0 | 7.9 | 6.8 | 6.7 | 7.7 | | | | | | | | | | |
| 1573 | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| 11.0 | 15.1 | 13.3 | 13.6 | 14.4 | 14.3 | 14.8 | 13.3 | 8.5 | 7.3 | 8.1 | 8.7 | 8.1 | 8.2 | 9.2 | 8.7 | | | | | | | | |
| 1576 | / MA | MA | MA | MA | MA | MA | MM8 | MD7 | FA | FA | FA | FA | FA | | | | | | | | | | |
| 10.2 | 12.0 | 12.4 | 13.0 | 11.7 | 12.4 | 12.0 | | | 7.0 | 7.4 | 8.5 | 8.2 | 7.5 | | | | | | | | | | |
| 1578 | NOT PREGNANT | | | | | | | | | | | | | | | | | | | | | | |
| 1579 | / MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | |
| 10.5 | 14.0 | 12.7 | 14.5 | 13.0 | 12.8 | 13.7 | 11.5 | 13.6 | 8.2 | 7.1 | 7.4 | 7.5 | 8.1 | 5.9 | 7.3 | | | | | | | | |
| 1583 | / MA | MA | MA | MA | MM3 | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | |
| 10.7 | 14.0 | 14.1 | 14.6 | 14.7 | | 8.4 | 9.0 | 8.8 | 8.8 | 9.0 | 8.5 | 8.0 | | | | | | | | | | | |
| 1584 | / MA | MA | MA | FA | | | | | | | | | | | | | | | | | | | |
| 16.3 | 18.4 | 17.9 | 18.9 | 10.1 | | | | | | | | | | | | | | | | | | | |
| 1586 | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| 11.4 | 13.7 | 15.0 | 12.4 | 13.3 | 12.9 | 14.9 | 12.3 | 8.2 | 8.4 | 8.8 | 9.1 | 9.4 | 9.3 | | | | | | | | | | |
| 1587 | / MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | | | | | | | | | | | | |
| 10.7 | 14.0 | 13.9 | 14.1 | 12.8 | 12.2 | 9.5 | 8.9 | 9.0 | 8.3 | 7.6 | 7.8 | | | | | | | | | | | | |
| 1588 | / MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | | |
| 10.1 | 12.9 | 13.5 | 13.9 | 12.5 | 9.3 | 8.6 | 7.9 | 9.2 | 8.4 | 8.0 | 8.9 | 9.0 | 8.7 | | | | | | | | | | |
| 1589 | / MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | | | | |
| 9.0 | 11.0 | 11.2 | 11.8 | 11.2 | 12.4 | 12.0 | 8.1 | 7.0 | 6.7 | 7.6 | 6.9 | 7.0 | 6.4 | 6.3 | | | | | | | | | |
| 1591 | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | | | | | | | | | |
| 11.6 | 12.5 | 13.2 | 13.2 | 13.2 | 14.6 | 13.0 | 12.1 | 12.7 | 13.4 | 12.3 | 8.0 | 6.9 | 7.7 | 9.0 | | | | | | | | | |
| 1593 | / MA | MA | FA | FA | FA | FA | | | | | | | | | | | | | | | | | |
| 11.3 | 15.2 | 15.0 | 9.8 | 8.6 | 9.3 | 9.8 | | | | | | | | | | | | | | | | | |
| 1598 | / MA | MA | MA | MA | MA | MA | MA | FA | FA | FA | FA | FA | FA | FA | FA | FA | FA | | | | | | |
| 8.7 | 11.8 | 11.5 | 10.7 | 12.0 | 11.6 | 11.6 | 11.8 | 5.9 | 7.4 | 7.6 | 6.6 | 6.6 | 6.8 | 7.2 | 5.9 | 7.0 | 5.9 | | | | | | |
| 1600 | / MA | MA | MA | MA | MA | MA | MA | MA | MA | MA | MD1 | FA | FA | FA | FA | | | | | | | | |
| 11.2 | 13.6 | 13.4 | 14.0 | 13.8 | 12.8 | 12.7 | 12.2 | 12.2 | 11.3 | 12.1 | | 8.2 | 7.1 | 6.6 | 6.9 | | | | | | | | |

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED), X-MISSING; SACRIFICED WHEN FOUND
ALL DISTANCES WERE RECORDED IN MILLIMETERS (MM).

# APPENDIX F

# PROTOCOL AND AMENDMENTS

PRIMEDICA

Argus Research Laboratories, Inc.
905 Sheehy Drive, Building A
Horsham, PA 19044
Telephone: (215) 443-8710
Telefax: (215) 443-8587

**PROTOCOL 418-020**

**SPONSOR'S STUDY NUMBER: T-6889.6**

**STUDY TITLE**: Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perfluorooctanoate (APFO) in Rats

**PURPOSE**: The purpose of this study is to provide information concerning the effects of Ammonium Perfluorooctanoate (APFO) on the male and female reproductive systems in Crl:CD®(SD)IGS BR VAF/Plus® rats, including gonadal function, estrous cycles, mating behavior, conception, parturition, lactation, weaning and the growth and development of offspring. The study is also designed to provide information about effects on neonatal morbidity, mortality and preliminary data on potential prenatal developmental toxicity, as well as to serve as a guide for use in the design of subsequent tests.

For further information on functional deficiencies and development, additional study segments can be incorporated into the protocol based on the guidelines for developmental toxicity and developmental neurotoxicity.

**TESTING FACILITY**: Argus Research Laboratories, Inc.
905 Sheehy Drive, Building A
Horsham, Pennsylvania 19044-1297
Telephone: (215) 443-8710
Telefax: (215) 443-8587

**STUDY DIRECTOR**: Raymond G. York, Ph.D., DABT
Associate Director of Research
raymond.york@primedica.com

**SPONSOR**: 3M Corporate Toxicology
3M Center, Building 220-2E-02
St. Paul, Minnesota 55144-1000

**STUDY MONITOR**:

John Butenhoff, Ph.D., DABT, CIH
3M Corporate Toxicology
3M Medical Department
Telephone: (651) 733-1962
Telefax: (651) 733-1773

**REGULATORY CITATIONS**:

U.S. Environmental Protection Agency (1998). Health Effects Test Guidelines; Reproduction and Fertility Effects. Office of Prevention, Pesticides and Toxic Substances (OPPTS) 870.3800, August, 1998.

U.S. Environmental Protection Agency (1997). Toxic Substances Control Act (TSCA) Test Guidelines; Final Rule. Reproduction and Fertility Effects, 799.9380 (cross-referenced to OPPTS 870.3800). *Federal Register*, August 15, 1997.

U.S. Environmental Protection Agency. Federal Insecticide, Fungicide and Rodenticide Act/Toxic Substances Control Act (FIFRA/TSCA); Good Laboratory Practice Standards; Final Rule. 40 CFR Part 160/Part 792.

Organization for Economic Cooperation and Development (1998). The Revised OECD Principles of Good Laboratory Practices [C(97)186/Final].

**REGULATORY COMPLIANCE**:

This study will be conducted in compliance with the Good Laboratory Practice (GLP) regulations cited above.

All changes or revisions of this protocol shall be documented, signed by the Study Director and the Sponsor, dated and maintained with the protocol.

The Testing Facility's Quality Assurance Unit (QAU) will audit the protocol, the raw data and the report, and will inspect critical phases of those portions of the study conducted at the Testing Facility in accordance with the Standard Operating Procedures of Argus Research Laboratories, Inc.

Should any portion of the study be conducted by a subcontractor or by the Sponsor, the QAU for that facility will conduct critical phase inspections and audit respective results and reports for that study portion according to the SOPs of that facility. Such critical phase inspection reports and report audits will be submitted by that facility to the Study Director. The dates of the inspections and report submissions will be incorporated into a QAU Statement generated by that facility and provided to the Testing Facility for inclusion in the final report.

The final report will include a compliance statement signed by the Study Director that the report accurately reflects the raw data obtained during the performance of the study

and that all applicable GLP regulations were followed in the conduct of the study. Should significant deviations from GLP regulations occur, each will be described in detail, together with how the deviation might affect the quality or integrity of the study.

## SCHEMATIC OF STUDY DESIGN AND STUDY SCHEDULE:

See ATTACHMENT 1 to the protocol.

## TEST SUBSTANCE AND VEHICLE:

### Identification:

Test Substance:

Ammonium Perfluorooctanoate (APFO), Lot 332.

The Sponsor will provide to the Testing Facility documentation or certification of the identity, composition, method of synthesis, strength and purity of the test substance.

Vehicle:

Reverse Osmosis Membrane Processed Deionized Water (R.O. deionized water).

Neither the Sponsor nor the Study Director is aware of any potential contaminants likely to be present in the vehicle that would interfere with the results of this study. Therefore, no analyses other than those mentioned in this protocol will be conducted.

### Safety Precautions:

Gloves, dust-mist/HEPA-filtered mask, appropriate eye protection and uniform/lab coat to be worn during formulation preparation and dosage. In addition, Tyvek sleeves and a half-face respirator will be worn and preparation will be conducted in a chemical fume hood when using the bulk test substance. The Material Safety Data Sheet (MSDS) is attached to the protocol (ATTACHMENT 2).

### Storage:

| | |
|---|---|
| Bulk Test Substance: | Room temperature. |
| Vehicle: | Room temperature. |
| Prepared Formulations: | Refrigerated, protected from light. |

All test substance shipments should be addressed to the attention of Julian Gulbinski, Manager of Formulations, at the previously cited Testing Facility address and telephone number.

Shipments should include information concerning storage conditions and shipping

cartons should be labeled appropriately. The recipient should be notified in advance of shipment.

**FORMULATION**:

**Frequency of Preparation**:

Formulations (solutions) are prepared weekly at the Testing Facility.

Detailed preparation procedures are attached to this protocol (ATTACHMENT 3).

**Adjustment for Purity**:

The test substance will be considered 100% pure for the purpose of dosage calculations.

**Testing Facility Reserve Samples**:

The Testing Facility will reserve a 1 g sample of each lot of bulk test substance and a 5 mL sample of vehicle used during the course of the study. Samples will be stored under the previously cited conditions.

**ANALYSES**:

Results of required analyses will be provided to the Testing Facility for inclusion in the study report.

Samples additional to those described below may be taken if deemed necessary during the course of the study.

**Bulk Test Substance Sampling**:

A sample (1g) of the test substance will be taken on the last day of treatment and sent (ambient conditions) to the Sponsor for analysis.

This sample will be sent to:

Kris J. Hansen, Ph.D.
3M Environmental Technology & Safety Services
935 Bush Avenue
Building 2-3E-09
St. Paul, Minnesota 55133-3331

Telephone: (651) 778-6018
Telefax: (651) 778-6176

The recipient will be notified in advance of sample shipment.

**Analyses of Prepared Formulations**:

Concentration:

Concentration of the prepared formulations will be verified during the course of this study. Duplicate samples will be taken from each concentration on the first and last days of preparation. One sample of each duplicate set will be shipped for analysis; the remaining samples will be retained as backup samples. Backup samples will be stored under the previously cited conditions and discarded at the Testing Facility upon the request of the Sponsor.

Stability:

Stability of the prepared formulations will be documented during this study. Two sets of duplicate samples (2 mL each) from each concentration will be taken on the first day of preparation. One sample of each duplicate set will be shipped on the day of preparation. These samples will be analyzed at the following time points: as soon after preparation as possible and ten days after the first analysis. The remaining samples will be retained at the Testing Facility as backup samples. Backup samples will be stored under the previously cited conditions and discarded at the Testing Facility upon the request of the Sponsor.

**Shipping Instructions**:

Samples to be analyzed will be shipped (on cold packs, protected from light) to Kris J. Hansen, Ph.D., at the previously cited address.

The recipient will be notified in advance of sample shipment.

**DISPOSITION**:

Prepared formulations will be discarded at the Testing Facility. All remaining bulk test substance will be returned to:

Nelda Marecki, Ph.D.
3M SMMG EHS&R
3M Center
Building 236-1B-10
St. Paul, MN 55144-1000

**TEST SYSTEM**:

**Species/Strain and Reason for Selection**:

The Crl:CD®(SD)IGS BR VAF/Plus® rat was selected as the Test System because: 1) this strain of rat has been demonstrated to be sensitive to reproductive and developmental toxins and has been widely used throughout industry for reproductive and developmental toxicity evaluations; 2) historical data and experience exist at the Testing Facility[1-3]; and 3) the test article is pharmacologically active in the species and strain.

**Number**:

P Generation:

| | |
|---|---|
| Initial population acclimated: | 165 virgin male rats and 165 virgin female rats. |
| Population selected for study: | 150 virgin male rats and 150 virgin female rats (30 per sex per group). |

F1 Generation:

150 male rats and 150 female rats, 30 rats per sex per group, will be selected for continued evaluation. An attempt will be made to select F1 generation rats to avoid over-representation of any P generation parental pair into the F2 generation.

**Body Weight and Age**:

P generation rats will be ordered to weigh from 100 g to 125 g each at receipt, at which time they will be expected to be at least 35 days of age. Actual body weights recorded will be recorded the day after receipt and will be documented in the raw data. The weight range will be included in the final report.

**Sex**:

Both male and female rats will be evaluated.

**Source**:

P Generation:

Charles River Laboratories, Inc.

The rats will be shipped in filtered cartons by air freight and/or truck from Charles River Laboratories, Inc., to the Testing Facility.

F1 and F2 Generations:

Offspring will be delivered at the Testing Facility by the pregnant P or F1 generation dams in this study.

**Identification**:

P Generation:

Rats are permanently identified using Monel® self-piercing ear tags (Gey Band and Tag Co., Inc., No. MSPT 20101). Male and female rats will be assigned temporary numbers at receipt and given unique permanent identification numbers when assigned to the study before administration of the first dosage of the test substance.

F1 and F2 Generations:

Pups will not be individually identified during the postpartum period; all parameters will be evaluated in terms of the litter. At weaning, each F1 generation rat selected for continued observation will be identified with a Monel® self-piercing ear tag.

**ANIMAL HUSBANDRY**:

All cage sizes and housing conditions are in compliance with the *Guide for the Care and Use of Laboratory Animals*[4].

**Housing**:

P Generation Rats/F1 Generation Litters:

P generation rats will be individually housed in stainless steel, wire-bottomed cages except during the cohabitation and postpartum periods. During cohabitation, each pair of rats will be housed in the male rat's cage. Beginning no later than day 20 of presumed gestation, female rats will be individually housed in nesting boxes. Each dam and delivered litter will be housed in a common nesting box during the postpartum period.

F1 Generation Rats/F2 Generation Litters:

After weaning, the F1 generation rats will be individually housed before cohabitation, housed in pairs (one male rat per female rat) during cohabitation, and individually housed after cohabitation. The same type of caging will be used as described for the P generation rats. Beginning no later than day 20 of presumed gestation, female rats will be individually housed in nesting boxes. Each dam and delivered litter will be housed in a common nesting box during the postpartum period.

**Nesting Material**:

Nesting material (bed-o'cobs®) will be provided.

Bedding will be changed as often as necessary to keep the animals dry and clean. Analyses for possible contamination are conducted semi-annually and documented in the raw data.

**Room Air, Temperature and Humidity**:

The animal room is independently supplied with at least ten changes per hour of 100% fresh air that has been passed through 99.97% HEPA filters. Room temperature will be maintained at 64°F to 79°F (18°C to 26°C) and monitored constantly. Room humidity will also be monitored constantly and maintained at 30% to 70%.

**Light**:

An automatically controlled 12-hour light:12-hour dark fluorescent light cycle will be maintained. Each dark period will begin at 1900 hours EST.

**Diet**:

Rats will be given Certified Rodent Diet® #5002 (PMI Nutrition International), available *ad libitum* from individual feeders.

**Water**:

Water will be available *ad libitum* from individual bottles attached to the cages or from an automatic watering access system. All water will be from a local source and passed through a reverse osmosis membrane before use. Chlorine will be added to the processed water as a bacteriostat; processed water is expected to contain no more than 1.2 ppm chlorine at the time of analysis. Water is analyzed monthly for possible bacterial contamination and twice annually for possible chemical contamination.

**Contaminants**:

Neither the Sponsor nor the Study Director is aware of any potential contaminants likely to be present in the certified diet, the drinking water or the nesting material at levels that would interfere with the results of this study. Therefore, no analyses other than those routinely performed by the feed supplier or those mentioned in this protocol will be conducted.

**DAY NUMBERING SYSTEM**:

Gestation day 0 is defined as the day spermatozoa are observed in a smear of the vaginal contents and/or a copulatory plug observed *in situ*.

The day of birth is designated lactation day 0 (postpartum day 0) in the Health Effects Test Guidelines - Reproduction and Fertility Effects (Office of Prevention, Pesticides and Toxic Substances 870.3800, August, 1998). This same day is designated day 1 postpartum (day 1 of lactation) in the Standard Operating Procedures of the Testing Facility. Throughout this protocol, the day of birth will be designated day 1 postpartum (day 1 of lactation) and all subsequent ages of the F1 generation rats and days of the lactation period will be determined and cited accordingly.

**RANDOMIZATION AND COHABITATION**:

Upon arrival, P generation rats will be assigned to individual housing on the basis of computer-generated random units. After acclimation, rats will be selected for study on the basis of physical appearance and body weight. The rats will be assigned to dosage groups based on computer-generated (weight-ordered) randomization procedures.

Within each dosage group, consecutive order will be used to assign P generation rats to cohabitation, one male rat per female rat. A computer-generated randomization procedure or a table of random units will be used to assign F1 generation rats to cohabitation, one male rat per female rat. If random assignment to cohabitation results in the pairing of F1 generation siblings, an alternate assignment will be made.

The cohabitation period (P and F1 generation rats) will consist of a maximum of 14 days. Female rats with spermatozoa observed in a smear of the vaginal contents and/or a copulatory plug observed *in situ* will be considered to be at day 0 of presumed

gestation and assigned to individual housing. If a female rat has not been mated after two weeks, the pair of rats will be separated without further opportunity for mating.

Day 1 of lactation (postpartum) is defined as the day of birth and is also the first day on which all pups in a litter are individually weighed (pup body weights will be recorded after all pups in a litter are delivered and groomed by the dam).

Litters will not be culled during the lactation period, because random selection of pups for culling could result in potential biases in pup viabilities and body weight gains during this period.

All F1 generation rats will be weaned at the same age, based on observed growth and viability of these pups, on either day 22 postpartum, or if required, day 29 postpartum. Should it be necessary to extend the lactation period to day 29 postpartum, all affected observational intervals will be adjusted accordingly.

At weaning, a table of random units or a computer-generated randomization procedure will be used to select 30 male and 30 female F1 generation pups per group, resulting in a total of 300 rats (150 rats per sex) chosen for continued evaluation. At least one male pup and one female pup per litter, when possible, will be selected. If results warrant that the study be extended to include a third generation, the procedures previously described for the F1 generation will be used for selection of F2 generation pups continued on study.

If study results should warrant (e.g., poor reproduction performance in the control group or treatment-related alterations in litter size), parental pairs may be remated to produce F1b or F2b litters. If production of a second litter is deemed necessary, the second cohabitation period will be scheduled approximately one to two weeks following weaning of the F1a or F2a litters.

**ADMINISTRATION**:

**Route and Reason for Choice**:

The oral (gavage) route was selected for use because: 1) in comparison with the dietary route, the exact dosage can be accurately administered; and 2) it is one possible route of human exposure.

**Method and Frequency**:

P Generation:

Male and female rats will be given the test substance once daily, beginning at approximately six weeks of age (at least 70 days before cohabitation) and continuing until the day before sacrifice. Dosages will be adjusted based on the most recently recorded body weight and given at approximately the same time each day.

F1 Generation:

F1 generation pups may be exposed to the test substance during maternal gestation (*in utero* exposure) or via maternal milk during the postpartum period. F1 generation rats will be given the same dosage level of the test substance as their respective P generation sires and dams. Dosages will be given once daily, beginning at weaning (approximately 70 days before cohabitation) and continuing until the day before sacrifice. Dosages will be adjusted at least weekly for body weight changes and given at approximately the same time each day.

F2 Generation:

Pups may be exposed *in utero* during gestation or via maternal milk during the lactation period.

**Rationale for Dosage Selection**:

Dosages were selected on the basis of prior dietary and gavage studies in rats performed by the Sponsor.

Concentrations may be adjusted if toxicity observed in the P or F1 generation rats indicates that it is required.

The highest dosage is expected to produce some toxicity. The intermediate dosage level is expected to produce minimal observable toxic effects, while the lowest dosage level is expected to produce no evidence of either systemic or reproductive toxicity [no-observable-adverse-effect level (NOAEL)].

**Dosage Levels, Concentrations and Volumes**:

| Dosage Group | Number of Rats per Sex | Dosage (mg/kg/day) | Concentration (mg/mL) | Dosage Volume (mL/kg) | Argus Batch Number |
|---|---|---|---|---|---|
| I | 30 | 0 | 0 | 5 | B-418-020-A(Day.Month.Year) |
| II | 30 | 1 | 0.2 | 5 | B-418-020-B(Day.Month.Year) |
| III | 30 | 3 | 0.6 | 5 | B-418-020-C(Day.Month.Year) |
| IV | 30 | 10 | 2 | 5 | B-418-020-D(Day.Month.Year) |
| V | 30 | 30 | 6 | 5 | B-418-020-E(Day.Month.Year) |

The test substance will be considered 100% pure of the purpose of dosage calculations.

**TESTS, ANALYSES AND MEASUREMENTS - P GENERATION:**

**Viability - Male and Female Rats:**

| | |
|---|---|
| All Periods: | At least twice daily. |

**Clinical Observations and/or General Appearance - Male and Female Rats:**

| | |
|---|---|
| Acclimation Period: | Weekly. |
| Dosage/Exposure Period: | Daily before dosage. Postdosage observations will be recorded approximately 60 ±10 minutes after administration. |
| Maternal Behavior: | Days 1, 5, 8, 15 and 22 postpartum. Observed abnormal behavior recorded daily. |

Clinical observations may be recorded more frequently than cited above if deemed appropriate by the Study Director and/or Study Monitor.

**Body Weights - Male Rats:**

| | |
|---|---|
| Acclimation Period: | Weekly. |
| Dosage/Exposure Period: | Weekly. |
| Day of Sacrifice: | Prior to sacrifice. |

**Body Weights - Female Rats:**

| | |
|---|---|
| Acclimation Period: | Weekly. |
| Precohabitation Period: | Weekly. |
| Cohabitation Period: | Weekly. |
| Gestation Period: | Days 0, 7, 10, 14, 18, 21 and 25 (if required). |
| Postpartum Period: | Days 1, 5, 8, 11, 15 and 22 (terminal body weight recorded). |

**Feed Consumption Values - Male Rats** (recorded and tabulated):

| | |
|---|---|
| Dosage/Exposure Period: | Weekly. |

**Feed Consumption Values - Female Rats** (recorded and tabulated):

Precohabitation Period: Weekly.

Gestation Period: Days 0, 7, 10, 14, 18, 21 and 25 (if necessary).

Postpartum Period: Days 1, 5, 8, 11 and 15.

Feed consumption not tabulated after day 15 postpartum, when it is expected that pups will begin to consume maternal feed.

**Feed Consumption Values - Male and Female Rats**:

Feed consumption values may be recorded more frequently than cited above if it is necessary to replenish the feed. During cohabitation, when two rats occupy the same cage with one feed jar, replenishment of the feed jars will be documented. Individual values will not be recorded or tabulated.

**Estrous Cycling and Mating**:

Estrous cycling will be evaluated daily by examination of vaginal cytology beginning 21 days before the scheduled cohabitation period and continuing until spermatozoa are observed in a smear of the vaginal contents and/or a copulatory plug is observed *in situ* during the cohabitation period.

On the day of scheduled sacrifice, an examination of vaginal cytology will be performed to determine the stage of estrous cycle.

**Duration of Gestation**:

The duration of gestation is calculated from day 0 of presumed gestation to the day the first pup is observed.

**Litter Observations**:

Litters will be examined after delivery to identify the number and sex of pups, stillbirths, live births and gross alterations.

**Fertility Parameters**:

Fertility Index (percentage of matings that result in pregnancies). Reported for each sex.

Gestation Index (percentage of pregnancies that result in birth of live litters).

Number and sex of offspring per litter (live and dead pups).

Number of implantation sites.

General condition of dam and litter during the postpartum period.

**Litter Data**:

Litter size and viability [tabulated at birth (day 1) and on days 5, 8, 15 and 22 postpartum].

Viability Indices (percentages of pups born that survive to days 1 and 5 postpartum.

Lactation Index (percentage of pups that survive from day 8 to day 22 postpartum).

Percent Survival and Sex Ratio [tabulated at birth (day 1) and on days 5, 8, 15 and 22 postpartum].

**TESTS, ANALYSES AND MEASUREMENTS - F1 GENERATION**:

**Viability**:

| | |
|---|---|
| Preweaning Period: | Litters will be observed for dead pups at least twice daily. The pups in each litter will be counted once daily. |
| Postweaning Period: | Twice daily. |

**Clinical Observations and/or General Appearance - Male and Female Rats**:

| | |
|---|---|
| Preweaning Period: | Daily. |
| Postweaning Period: | Daily before dosage. Postdosage observations will be recorded approximately 60 ±10 minutes after administration. |
| Maternal Behavior: | Days 1, 5, 8, 15 and 22 postpartum. Observed abnormal behavior recorded daily. |

Clinical observations may be recorded more frequently than cited above if deemed appropriate by the Study Director and/or Study Monitor.

**Body Weights - Male and Female Rats**:

| | |
|---|---|
| Preweaning Period: | Days 1 (liveborn pups), 5, 8, 15 and 22 postpartum. |
| Postweaning Period: | Weekly. |

| | |
|---|---|
| Presumed Gestation Period (Female Rats): | Days 0, 7, 10, 14, 18, 21 and 25 (if required). |
| Lactation Period (Female Rats): | Days 1, 5, 8, 11, 15 and 22. |
| Day of Sacrifice: | Prior to sacrifice. |

**Feed Consumption Values - Male and Female Rats**:

| | |
|---|---|
| Postweaning to Cohabitation: | Weekly. |
| Postcohabitation Period (Male Rats): | Weekly until sacrifice. |
| Gestation Period (Female Rats): | Days 0, 7, 10, 14, 18, 21 and 25 (if required). |
| Lactation Period (Female Rats): | Days 1, 5, 8, 11 and 15. Feed consumption values not tabulated after day 15 postpartum, when it is expected that pups will begin to consume maternal feed. |

Feed consumption values may be recorded more frequently than cited above if it is necessary to replenish the feed. During cohabitation, when two rats occupy the same cage with one feed jar, replenishment of the feed will be documented. Individual values will not be recorded or tabulated.

**Postweaning Developmental Observations**:

Sexual Maturation:

Female rats will be evaluated for the age of vaginal patency, beginning on day 28 postpartum. Male rats will be evaluated for the age of preputial separation, beginning on day 39 postpartum.

**Estrous Cycling and Mating**:

Estrous cycling will be evaluated daily by examination of vaginal cytology beginning 21 days before the scheduled cohabitation period and continuing until spermatozoa are observed in a smear of the vaginal contents and/or a copulatory plug is observed *in situ* during the cohabitation period.

On the day of scheduled sacrifice, an examination of vaginal cytology will be performed

to determine the stage of estrous cycle.

**Duration of Gestation**:

As cited above for P generation rats.

**Litter Observations**:

As cited above for P generation rats.

**Fertility Parameters**:

As cited above for P generation rats.

**Litter Data**:

As cited above for P generation rats.

**TESTS, ANALYSES AND MEASUREMENTS - F2 GENERATION**:

**Viability**:

| | |
|---|---|
| Preweaning Period: | Litters will be observed for dead pups at least twice daily. The pups in each litter will be counted once daily. |

**Clinical Observations and/or General Appearance**:

| | |
|---|---|
| Preweaning Period: | Daily. |

**Body Weights**:

| | |
|---|---|
| Preweaning Period: | Days 1, 5, 8, 15 and 22. |

**Preweaning Developmental Observations**:

If treatment-related effects are observed in sex ratio and/or sexual maturation of the F1 generation, anogenital distance will be measured for all live F2 generation pups on days 1 and 22 postpartum.

**METHOD OF SACRIFICE**:

Rats and pups will be sacrificed by carbon dioxide asphyxiation.

**GROSS NECROPSY AND HISTOPATHOLOGY**:

Adult P and F1 generation rats will be necropsied and examined for gross lesions. Gross lesions will be retained in neutral buffered 10% formalin and examined histologically. Tissue trimming and histopathology will be performed under the supervision of or by a Board Certified Veterinary Pathologist.

At scheduled sacrifice after completion of the cohabitation period (male rats) and on day 22 postpartum (female rats) blood samples (approximately 4 mL per rat) will be collected from the inferior vena cava into serum separator tubes and centrifuged. The resulting serum will be immediately frozen on dry ice and maintained frozen (≤-70°C) until shipment to the Sponsor for analysis. The liver will be excised, weighed, and a sample section (lateral lobe) frozen and retained at ≤-70°C until shipment to the Sponsor for analysis.

After completion of sample collection, serum and liver section samples will be shipped (frozen on dry ice) to Kris J. Hansen, Ph.D., at the previously cited address. Both the recipient and the Study Monitor will be notified in advance of sample shipment.

Gross necropsy will include an initial physical examination of external surfaces and all orifices, as well as an internal examination of tissues and organs *in situ*. The following will be examined: external and internal portions of all hollow organs; the external surfaces of the brain and spinal column, the nasal cavity and neck with associated organs and tissues; the thoracic, abdominal and pelvic cavities with associated organs and tissues; and the musculo/skeletal carcass. The lungs will be perfused with neutral buffered 10% formalin.

For all postweaning rats, the urinary bladder and lungs will be inflated with neutral buffered 10% formalin.

See ATTACHMENT 4 for additional tissues to be weighed and retained, and histological evaluations to be conducted; all other tissues will be discarded.

**Adult Rats Found Dead or Moribund - P and F1 Generation Rats**:

Rats that die or are sacrificed because of moribund condition, abortion or premature delivery will be examined for the cause of death or moribund condition on the day the observation is made. The rats will be examined for gross lesions. Pregnancy status and uterine contents of female rats will be recorded (when appropriate). Aborted fetuses, delivered pups and/or concepti *in uteri* will be examined to the extent possible. Uteri of apparently nonpregnant rats will be examined while being pressed between glass plates to confirm the absence of implantation sites.

See ATTACHMENT 4 for tissues to be weighed and retained, and histological evaluations to be conducted; all other tissues will be discarded.

Should postmortem autolysis preclude these evaluations, it will be noted in the necropsy data.

**Scheduled Sacrifice and Sperm Evaluations - P and F1 Generation Male Rats**:

After completion of the cohabitation period, adult male rats will be sacrificed, and a gross necropsy of the thoracic, abdominal and pelvic viscera will be performed. To assess the potential toxicity of the test substance on the male reproductive system, the following endpoints will be evaluated:

Sperm Evaluations:

A portion of the left cauda epididymis will be used for evaluation of cauda epididymal sperm concentration and motility using computer-assisted sperm analysis (CASA). Motility will be evaluated by the Hamilton Thorne IVOS by collection of a sample from the left cauda epididymis. The remaining left cauda epididymis will be used to manually evaluate sperm morphology and to prepare a homogenate to be evaluated by the Hamilton Thorne IVOS for a determination of sperm concentration (sperm per gram of tissue weight). Sperm morphology evaluations will include the following: 1) determination of the percentage of normal sperm in a sample of at least 200; and 2) qualitative evaluation of abnormal sperm, including such categories as abnormal head, abnormal tail, and abnormal head and tail.

Organ Weights:

The following organs will be individually weighed: right testis, left testis, left epididymis (whole and cauda), right epididymis, seminal vesicles (with and without fluid) and prostate.

Histopathology:

The remaining portion of the left epididymis, the right epididymis, prostate and seminal vesicles will be fixed in neutral buffered 10% formalin for possible histopathological evaluation. The testes will be fixed in Bouin's solution for 48 to 96 hours and then retained in neutral buffered 10% formalin for possible histopathological evaluation (see ATTACHMENT 4).

Should a second litter be deemed necessary, male rats will not be sacrificed until after the cohabitation period for the second litter, extending the study by approximately 14 weeks.

**Scheduled Sacrifice - P and F1 Generation Female Rats**:

Female rats will be sacrificed after completion of the 22-day postpartum period (should a second litter not be required). The number and distribution of implantation sites will be recorded. Rats that do not deliver a litter will be sacrificed on day 25 of presumed

gestation and examined for pregnancy status. Uteri of apparently nonpregnant rats will be examined while being pressed between glass plates to confirm the absence of implantation sites. A gross necropsy of the thoracic, abdominal and pelvic viscera will be performed. Female rats without a confirmed mating date that do not deliver a litter will be sacrificed on an estimated day 25 of presumed gestation.

**Dams with No Surviving Pups - P and F1 Generation Female Rats**:

Dams with no surviving pups will be sacrificed after the last pup is found dead, missing or presumed cannibalized. A gross necropsy of the thoracic, abdominal and pelvic viscera will be performed.

**F1/F2 Generation Pups Found Dead on Day 1 Postpartum**:

Pups that die before examination of the litter for pup viability will be evaluated for vital status at birth. The lungs will be removed and immersed in water. Pups with lungs that sink will be identified as stillborn; pups with lungs that float will be identified as liveborn, and to have died shortly after birth. Pups with gross lesions will be preserved in Bouin's solution for possible future evaluation. Should postmortem autolysis preclude these evaluations, it will be noted in the necropsy data.

**F1/F2 Generation Pups Found Dead or Moribund on Days 2 to 22 Postpartum**:

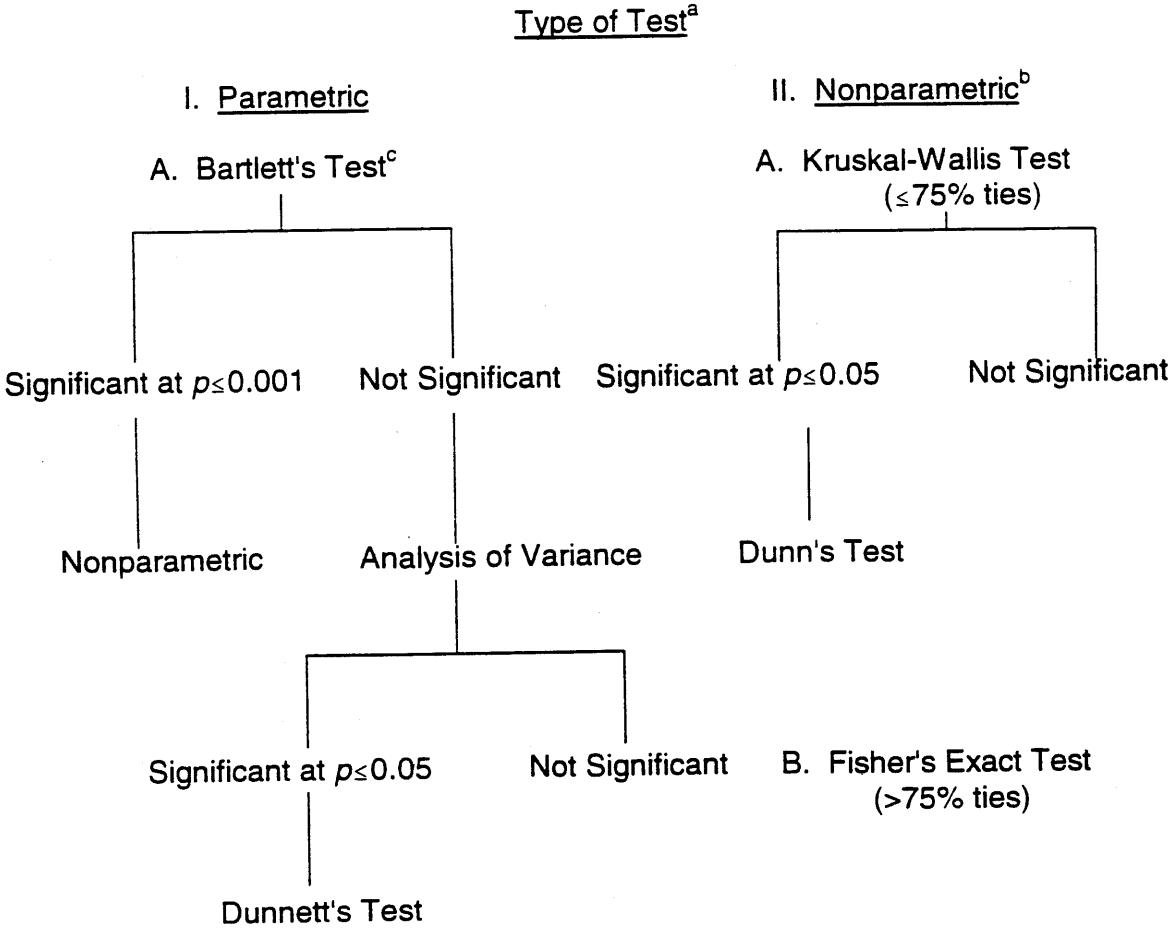
Pups found dead or sacrificed due to moribund condition will be examined for gross lesions and for the cause of the moribund condition or death. Pups with gross lesions found on days 2 to 5 postpartum will be preserved in Bouin's solution for possible future evaluation; gross lesions of pups found on days 6 to 22 postpartum will be preserved in neutral buffered 10% formalin. Should postmortem autolysis preclude these evaluations it will be noted in the necropsy data.

**F1/F2 Generation Pups Not Selected for Continued Observation**:

All pups culled on day 22 postpartum will be sacrificed, and three pups per sex per litter will be randomly selected and examined for gross lesions; gross lesions will be preserved in neutral buffered 10% formalin. Necropsy will include a single cross-section of the head at the level of the frontal-parietal suture and examination of the cross-sectioned brain for apparent hydrocephaly. Tissues (see ATTACHMENT 4) from the three selected pups per sex per litter will be weighed and retained in neutral buffered 10% formalin for possible histological evaluation. All remaining pups will be discarded without further examination.

## PROPOSED STATISTICAL METHODS[5-11]:

Averages and percentages will be calculated. Litter values will be used where appropriate. Additional procedures and/or analyses may be performed, if appropriate.

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a. Statistically significant probabilities are reported as either $p \leq 0.05$ or $p \leq 0.01$.
b. Proportion data are not included in this category.
c. Test for homogeneity of variance.

**DATA ACQUISITION, VERIFICATION AND STORAGE**:

Data generated during the course of this study will be recorded either by hand or using the *Primedica Argus Automated Data Collection and Management System*, the *Vivarium Temperature and Relative Humidity Monitoring System* and the *Hamilton Thorne IVOS*. All data will be tabulated, summarized and/or statistically analyzed using the *Primedica Argus Automated Data Collection and Management System*, the *Vivarium Temperature and Relative Humidity Monitoring System, Microsoft Excel* [part of Microsoft Office 97 (version SR-2)] and/or *The SAS System* (version 6.12).

Records will be reviewed by the Study Director and/or appropriate management personnel within 21 days after generation. All original records will be stored in the archives of the Testing Facility. All original data will be bound and indexed. A copy of all raw data will be supplied to the Sponsor upon request. Preserved tissues will be stored at the Testing Facility at no charge for one year after mailing of the draft final report, after which time the Sponsor will be contacted to determine the disposition of these materials.

**RECORDS TO BE MAINTAINED**:

Protocol and Amendments.
Test Substance, Vehicle and/or Reagent Receipt, Preparation and Use.
Animal Acquisition.
Randomization Schedules.
Mating History.
Treatment (if prescribed by Staff Veterinarian).
General Comments.
Clinical Observations and/or General Appearance.
Blood Sample Collection, Processing and Shipment.
Body Weights.
Feed Consumption Values.
Gestation Length.
Litter Observations.
Gross Necropsy Observations.
Sperm Evaluation (motility, concentration and morphology).
Organ Weights.
Histological Observations.
Study Maintenance (room and environmental records).
Feed and Water Analyses.
Packing and/or Shipment Lists.

**KEY PERSONNEL**:

Executive Director of Research: Mildred S. Christian, Ph.D., Fellow, ATS
Director of Research: Alan M. Hoberman, Ph.D., DABT
Associate Director of Research and Study Director: Raymond G. York, Ph.D., DABT
Director of Operations and Compliance: Barbara J. Patterson, B.A.
Director of Laboratory Operations: John F. Barnett, B.S.
Director of Study Management: Valerie A. Sharper, M.S.
Manager of Animal Operations and Chairperson, Institutional Animal Care and Use Committee: Dena C. Lebo, V.M.D.
Consultant, Veterinary Pathology: W. Ray Brown, D.V.M., Ph.D., ACVP

**REPORTS**:

The Study Director will provide periodic updates of study progress to the Sponsor. Draft summary tables of unaudited computer-recorded data may accompany these updates. Statistical analyses will not be performed on these interim data.

A comprehensive draft final report will be prepared on completion of the study and will be finalized following consultation with the Sponsor. The report will include the following:

Summary and Conclusion.
Experimental Design and Method.
Evaluation of Test Results.
Appendices: Figures, Summary and Individual Tables Summarizing the Above Data, Protocol and Associated Amendments and Deviations, Study Director's GLP Compliance Statement, Reports of Supporting Data (if appropriate) and QAU Statement.

An interim summary report covering the period from initiation of test diet exposure through weaning of the F1 generation will also be issued. This report will be identical in format to the final report with the exception of inclusion of histopathological findings.

The Sponsor will receive one copy of the draft report and two copies of the final report.

**INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE STATEMENT**:

The procedures described in this protocol have been reviewed by the Testing Facility's Institutional Animal Care and Use Committee. All procedures described in this protocol that involve study animals will be conducted in a manner to avoid or minimize discomfort, distress or pain to the animals.

The Sponsor's signature below documents the fact that information concerning the necessity for conducting this study and the fact that this is not an unnecessarily duplicative study may be obtained from the Sponsor. No alternative (*in vitro*) procedures were available for meeting the stated purposes of the study.

**REFERENCES**:

1. Christian, M.S. and Voytek, P.E. (1982). *In Vivo Reproductive and Mutagenicity Tests.* Environmental Protection Agency, Washington, D.C. National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

2. Christian, M.S. (1984). Reproductive toxicity and teratology evaluations of naltrexone (Proceedings of Naltrexone Symposium, New York Academy of Sciences, November 7, 1983), J. Clin. Psychiat. 45(9):7-10.

3. Lang, P.L. (1988). *Embryo and Fetal Developmental Toxicity (Teratology) Control Data in the Charles River Crl:CD®BR Rat.* Charles River Laboratories, Inc., Wilmington, MA 01887-0630. (Data base provided by Argus Research Laboratories, Inc.)

4. Institute of Laboratory Animal Resources (1996). *Guide for the Care and Use of Laboratory Animals.* National Academy Press, Washington, D.C.

5. Snedecor, G.W. and Cochran, W.G. (1967). Variance test for homogeneity of the binomial distribution. *Statistical Methods*, 6th Edition, Iowa State University Press, Ames, pp. 240-241.

6. Sokal, R.R. and Rohlf, F.J. (1969). Bartlett's test of homogeneity of variances. *Biometry*, W.H. Freeman and Co., San Francisco, pp. 370-371.

7. Snedecor, G.W. and Cochran, W.G. (1967). Analysis of Variance. *Statistical Methods*, 6th Edition, Iowa State University Press, Ames, pp. 258-275.

8. Dunnett, C.W. (1955). A multiple comparison procedure for comparing several treatments with a control. J. Amer. Stat. Assoc. 50:1096-1121.

9. Sokal, R.R. and Rohlf, F.J. (1969). Kruskal-Wallis Test. *Biometry*, W.H. Freeman and Co., San Francisco, pp. 388-389.

10. Dunn, O.J. (1964). Multiple comparisons using rank sums. Technometrics 6(3):241-252.

11. Siegel, S. (1956). *Nonparametric Statistics for the Behavioral Sciences*, McGraw-Hill, New York, pp. 96-104.

**PROTOCOL APPROVAL:**

**FOR THE TESTING FACILITY**

Alan M. Hoberman, Ph.D., DABT
Director of Research

07-NOV-00
Date

Raymond G. York, Ph.D., DABT
Associate Director of Research
Study Director

07-NOV-00
Date

Dena C. Lebo, V.M.D.
Chairperson, Institutional Animal Care and Use Committee

07-NOV-00
Date

**FOR THE SPONSOR**

John Butenhoff, Ph.D., DABT, CIH
Study Monitor
Sponsor's Representative

08-NOV-00
Date

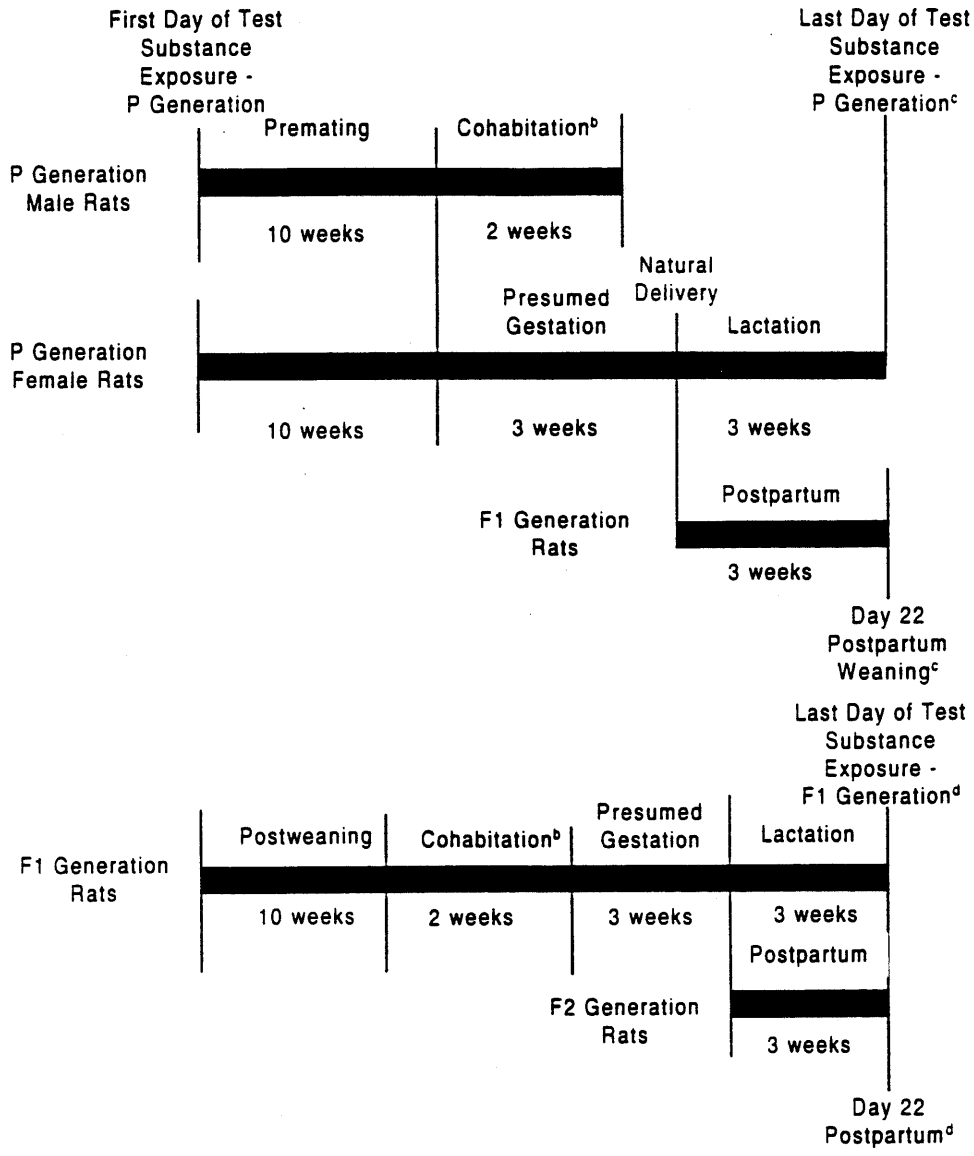
# ATTACHMENT 1

## SCHEMATIC OF STUDY DESIGN AND STUDY SCHEDULE

ATTACHMENT 1



## TWO-GENERATION REPRODUCTION STUDY[a]




Dosage Period

a. For additional details see "Tests, Analyses and Measurements" section of the protocol.

b. Male rats sacrificed after determination of sufficient number of pregnancies; sperm evaluation.

c. P generation female rats and F1 generation rats not selected for continuation on study sacrificed.

d. F1 generation dams and F2 generation litters sacrificed.

## SCHEDULE[a,b,c]

| | |
|---|---|
| 07 NOV 00 | P Generation Animal Receipt - Acclimation Begins |
| 13 NOV 00 | Start of Test Substance Exposure - P Generation Rats |
| 21 JAN 01 PM - 04 FEB 01 AM | P Generation Cohabitation Period (After at least 70 days of test substance exposure). |
| 22 JAN 01 | First Possible Day 0 of Presumed Gestation. |
| 04 FEB 01 | Last Possible Day 0 of Presumed Gestation. |
| 12 FEB 01 | First Possible Delivery - F1 Generation Litters (Day 21 of presumed gestation). |
| 01 MAR 01 | Last Possible Delivery - F1 Generation Litters (Day 25 of presumed gestation). |
| 16 FEB 01 | First Possible Day 25 of Presumed Gestation Female Rat Sacrifice. |
| 01 MAR 01 | Last Possible Day 25 of Presumed Gestation Female Rat Sacrifice. |
| 12 FEB 01 | Scheduled Sacrifice - P Generation Male Rats (Earliest possible date). |
| 05 MAR 01 | First Possible Day-22 Postpartum Weaning (Sacrifice of P generation dams and F1 generation pups not selected for continued observation). |
| 22 MAR 01 | Last Possible Day-22 Postpartum Weaning. |
| 06 MAR 01 | F1 Generation Postweaning Observations Begin (Details of tests cited in protocol). |

---

a. The study initiation date is the day the Study Director signs the protocol.

b. The day of birth is designated postnatal day 0 (day 0 of lactation) in Addendum 10 to the Pesticide Assessment Guidelines of the U.S. Environmental Protection Agency (EPA). This same day is designated day 1 postpartum (day 1 of lactation) in the Standard Operating Procedures of the Test Facility. Throughout this protocol, the day of birth will be designated day 1 postpartum (day 1 of lactation) and all subsequent ages of the F1 generation rats and days of the lactation period will be determined and cited accordingly.

c. The in-life portion of the study will require approximately 42 weeks. If results warrant, this study may be extended to include a third generation; such a study extension would be conducted according to the procedures described previously for the F1 and F2 generations.

| | |
|---|---|
| 31 JUL 01 | Interim Status Report - Draft Mail Date. |

Estimated Dates[a]

| | |
|---|---|
| 06 MAR 01 | Start of Test Substance Exposure - F1 Generation Rats |
| 28 MAY 01 PM - 18 JUN 01 AM | F1 Generation Cohabitation Period (After at least 70 days of test substance exposure). |
| 29 MAY 01 | First Possible Day 0 of Presumed Gestation. |
| 18 JUN 01 | Last Possible Day 0 of Presumed Gestation. |
| 19 JUN 01 | First Possible Delivery - F2 Generation Litters (Day 21 of presumed gestation). |
| 13 JUL 01 | Last Possible Delivery - F2 Generation Litters (Day 25 of presumed gestation). |
| 23 JUN 01 | First Possible Day 25 of Presumed Gestation Female Rat Sacrifice. |
| 13 JUL 01 | Last Possible Day 25 of Presumed Gestation Female Rat Sacrifice. |
| 26 JUN 01 | F1 Generation Male Rats Sacrificed after Day 21 of Cohabitation Period - Earliest Approximate Date. |
| 10 JUL 01 | First Possible Day 22 Postpartum (F1 generation dams and F2 generation litters sacrificed). |
| 03 AUG 01 | Last Possible Day 22 Postpartum. |
| 12 DEC 01 | Draft Final Report (Including histopathology). |

---

a. All of these dates are not possible to accurately schedule because they are dependent upon the timing of mating of the P generation and the times litters are delivered and weaned.

**ATTACHMENT 2**

**MATERIAL SAFETY DATA SHEET**

MATERIAL SAFETY DATA SHEET

3M
3M Center
St. Paul, Minnesota
55144-1000
1-800-364-3577 or (651) 737-6501 (24 hours)

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2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

DIVISION: 3M SPECIALTY MATERIALS
TRADE NAME:
FC-143 FLUORAD Brand Fluorochemical Surfactant
ID NUMBER/U.P.C.:

| | | | |
|---|---|---|---|
| 98-0211-0008-0 | 00-51135-09138-8 | 98-0211-0891-9 | 00-51135-09365-8 |
| 98-0211-5489-7 | 00-51135-02941-1 | 98-0211-6581-0 | 00-51135-10405-7 |
| 98-0211-7394-7 | 00-51135-10762-1 | ZF-0002-0378-4 | - - - |

ISSUED: August 25, 2000
SUPERSEDES: July 28, 2000
DOCUMENT: 10-3808-2

## 1. INGREDIENT

| INGREDIENT | C.A.S. NO. | PERCENT | |
|---|---|---|---|
| AMMONIUM PERFLUOROOCTANOATE | 3825-26-1 | 96.5 | - 100 |
| AMMONIUM PERFLUOROHEXANOATE | 21615-47-4 | 0 | - 1.5 |
| AMMONIUM PERFLUOROHEPTANOATE | 6130-43-4 | 0 | - 1 |
| HEPTADECAFLUORONONANOIC ACID, AMMONIUM SALT | 4149-60-4 | 0 | - 1 |

The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

## 2. PHYSICAL DATA

| | |
|---|---|
| BOILING POINT: | N/A |
| VAPOR PRESSURE: | N/A |
| VAPOR DENSITY: | N/A |
| EVAPORATION RATE: | N/A |
| SOLUBILITY IN WATER: | apprec. |
| SPECIFIC GRAVITY: | 0.4 - 0.5 Water=1 (Bulk) |
| PERCENT VOLATILE: | N/A |
| pH: | 4 - 7 (2% aqueous solution) |
| VISCOSITY: | N/A |

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

---

2. PHYSICAL DATA (continued)

---

MELTING POINT:..... N/A

APPEARANCE AND ODOR:
Solid, Light colored powder; slight odor.

---

3. FIRE AND EXPLOSION HAZARD DATA

---

FLASH POINT:..... Non-flammable
FLAMMABLE LIMITS - LEL:..... N/A
FLAMMABLE LIMITS - UEL:..... N/A
AUTOIGNITION TEMPERATURE:..... N/A

EXTINGUISHING MEDIA:
Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
See Hazardous Decomposition section for products of combustion.

---

4. REACTIVITY DATA

---

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Not Applicable

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Hydrogen Fluoride, Ammonia.

---

5. ENVIRONMENTAL INFORMATION

---

SPILL RESPONSE:
Observe precautions from other sections. Collect spilled material. Use wet sweeping compound or water to avoid dusting. Clean up residue. Place in a closed container.

---

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

5. ENVIRONMENTAL INFORMATION (continued)

RECOMMENDED DISPOSAL:
Incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HF. Do not dispose of in a sanitary landfill. Disposal alternative: Dispose of waste product in a facility permitted to accept chemical waste.

ENVIRONMENTAL DATA:
SUPPORTING DATA:

BIODEGRADATION:
Theoretical Oxygen Demand (ThOD): 0.320 g/g
Chemical Oxygen Demand (COD): 0.0007 g/g
20-Day Biochemical Oxygen Demand (BOD20): Nil

AQUATIC TOXICITY:
Fathead minnow (Pimephales promelas) 96-hr LC50: 766 mg/L
Water flea (Daphnia magna) 48-hr EC50: 632 mg/L
Bluegill sunfish (Lepomis macrochirus) 96-hr EC50: 569 mg/L
Green Algae (Selenastrum capricornutum) 14-Day EC50:
>1000 mg/L
Microtox (Photobacterium phosphoreum) 30-min EC50: 730 mg/L

BIONCONCENTRATION:
BCF = 1.8

REGULATORY INFORMATION:
Volatile Organic Compounds: N/A.
VOC Less H2O & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

The components of this product are in compliance with the chemical registration requirements of TSCA, EINECS, CDSL, AICS, MITI, KECI and PICCS.

OTHER ENVIRONMENTAL INFORMATION:
This substance has minimal toxicity to aquatic organisms (100 mg/L < Lowest LC50, EC50, or IC50 < or = 1000 mg/L).

No data are available on the toxicity effects of this substance on wastewater treatment system organisms.

This product can potentially generate Perfluorooctanoate anion, either through dissociation or metabolism, which has the potential to resist degradation and persist in the environment.

EPCRA HAZARD CLASS:

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

---

5. ENVIRONMENTAL INFORMATION (continued)

---

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

---

6. SUGGESTED FIRST AID

---

EYE CONTACT:
Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:
Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:
If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:
Do not induce vomiting. Drink two glasses of water. Call a physician.

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7. PRECAUTIONARY INFORMATION

---

EYE PROTECTION:
Avoid eye contact. Wear vented goggles.

SKIN PROTECTION:
Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber. Use one or more of the following personal protection items as necessary to prevent skin contact: head covering, coveralls. Protective garments (other than gloves) should be made of either of the following materials:
polyethylene/polyvinylidene chloride (Saranex)

Use disposable shoe/boot covering or rubber boots. Disposable fabric is preferable for all protective garments.

RECOMMENDED VENTILATION:
Use with appropriate local exhaust ventilation. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:
Avoid breathing of airborne material. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: full-face high-

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: FC-143 FLUORAD Brand Fluorochemical Surfactant
August 25, 2000 PAGE 5

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7. PRECAUTIONARY INFORMATION (continued)

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efficiency filter respirator, full-face supplied air respirator.

PREVENTION OF ACCIDENTAL INGESTION:
Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

RECOMMENDED STORAGE:
Store away from areas where product may come into contact with food or pharmaceuticals. Store at room temperature. Keep container closed when not in use.

**PREVENT MOISTURE CONTAMINATION TO KEEP POWDER FREE FLOWING.**

FIRE AND EXPLOSION AVOIDANCE:
Nonflammable.

OTHER PRECAUTIONARY INFORMATION:
No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of the hazardous decomposition products mentioned in the Reactivity Data section of this MSDS. Store work clothes separately from other clothing, food and tobacco products. Wash contaminated clothing thoroughly before re-use. Discard contaminated leather clothing. Decontaminate work surfaces frequently to avoid exposure by contact.

HMIS HAZARD RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0
PERSONAL PROTECTION: X (See precautions, section 7.)

EXPOSURE LIMITS

| INGREDIENT | VALUE | UNIT | TYPE | AUTH | SKIN* |
|---|---|---|---|---|---|
| AMMONIUM PERFLUOROOCTANOATE..... | 0.01 | MG/M3 | TWA | ACGIH | Y |
| AMMONIUM PERFLUOROHEXANOATE..... | 0.1 | MG/M3 | TWA | 3M | Y |
| AMMONIUM PERFLUOROHEPTANOATE..... | 0.1 | MG/M3 | TWA | 3M | Y |
| HEPTADECAFLUORONONANOIC ACID, AMMONIUM SALT..... | NONE | NONE | NONE | NONE | |

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:
- 3M: 3M Recommended Exposure Guidelines
- ACGIH: American Conference of Governmental Industrial Hygienists

- NONE: None Established

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: FC-143 FLUORAD Brand Fluorochemical Surfactant
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8. HEALTH HAZARD DATA

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EYE CONTACT:
Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:
Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

INHALATION:
Illness requiring medical attention may result from a single exposure by inhalation to moderate quantities of this material.

May be absorbed by inhalation and persist in the body for an extended time.

Single overexposure, above recommended guidelines, may cause:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

IF SWALLOWED:
This product can potentially generate Perfluorooctanoate anion, either through dissociation or metabolism. Animal studies conducted on Perfluorooctanoate anion indicate effects including liver disturbances, weight loss, loss of appetite, adrenal and hematologic effects, and benign tumors of the liver, pancreas and testes of male rats. There are no known human health effects from anticipated exposure to this Perfluorooctanoate anion when used as intended and instructed.

Illness may result from a single swallowing of a moderate quantity of this material.

CANCER:
A mixture of ammonium perfluorooctanoate, ammonium perfluoroheptanoate, ammonium perfluoropentanoate and ammonium perfluorohexanoate, that was 93 to 97% AMMONIUM PERFLUOROOCTANOATE (3825-26-1) was fed to albino rats for 2 years, no compound induced carcinogenicity was found in the study. There were statistically significant compound related benign testicular tumors. In a second two-year study there were statistically significant compound related

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: FC-143 FLUORAD Brand Fluorochemical Surfactant
August 25, 2000 PAGE 7

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8. HEALTH HAZARD DATA (continued)

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benign tumors in the liver, pancreas, and testis when compared to ad libitum and pair-fed controls. Based on the current knowledge, these findings have no human health implications. (3825-26-1) (1983 and 1993 studies conducted jointly by 3M and DuPont).

MUTAGENICITY:
Not mutagenic in invitro mutagenicity assays. Did not cause cell transformation in a mammalian cell transformation assay.

REPRODUCTIVE/DEVELOPMENTAL TOXINS:
Not teratogenic in rabbits by oral administration. Not teratogenic to rats by gavage or inhalation exposures.

OTHER HEALTH HAZARD INFORMATION:
A Product Toxicity Summary Sheet is available.

The presence of organic fluorochemicals in the blood of the general population and subpopulations, such as workers, has been published dating back to the 1970's. 3M's epidemiological study of its own workers indicates no adverse effects.

This product can potentially generate Perfluorooctanoate anion, either through dissociation or metabolism. Perfluorooctanoate anion has the potential to be absorbed and remain in the body for long periods of time and may accumulate with repeated exposures. There are no known human health effects from anticipated exposure to this Perfluorooctanoate anion when used as intended and instructed.

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SECTION CHANGE DATES

---

| INGREDIENTS | SECTION CHANGED SINCE July 28, 2000 | ISSUE |
|---|---|---|

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: FC-143 FLUORAD Brand Fluorochemical Surfactant
August 25, 2000 PAGE 8

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The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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MATERIAL SAFETY DATA SHEET

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DIVISION: 3M SPECIALTY MATERIALS
TRADE NAME:
FC-143 FLUORAD Brand Fluorochemical Surfactant
ID NUMBER/U.P.C.:

| | | | |
|---|---|---|---|
| 98-0211-0008-0 | 00-51135-09138-8 | 98-0211-0891-9 | 00-51135-09365-8 |
| 98-0211-5489-7 | 00-51135-02941-1 | 98-0211-6581-0 | 00-51135-10405-7 |
| 98-0211-7394-7 | 00-51135-10762-1 | ZF-0002-0378-4 | - - - |

ISSUED: August 25, 2000
SUPERSEDES: July 28, 2000
DOCUMENT: 10-3808-2

## 1. INGREDIENT

| INGREDIENT | C.A.S. NO. | PERCENT |
|---|---|---|
| AMMONIUM PERFLUOROOCTANOATE | 3825-26-1 | 96.5 - 100 |
| AMMONIUM PERFLUOROHEXANOATE | 21615-47-4 | 0 - 1.5 |
| AMMONIUM PERFLUOROHEPTANOATE | 6130-43-4 | 0 - 1 |
| HEPTADECAFLUORONONANOIC ACID, AMMONIUM SALT | 4149-60-4 | 0 - 1 |

The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

## 2. PHYSICAL DATA

| | |
|---|---|
| BOILING POINT: | N/A |
| VAPOR PRESSURE: | N/A |
| VAPOR DENSITY: | N/A |
| EVAPORATION RATE: | N/A |
| SOLUBILITY IN WATER: | apprec. |
| SPECIFIC GRAVITY: | 0.4 - 0.5 Water=1 (Bulk) |
| PERCENT VOLATILE: | N/A |
| pH: | 4 - 7 (2% aqueous solution) |
| VISCOSITY: | N/A |

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

---

2. PHYSICAL DATA (continued)

---

MELTING POINT:..... N/A

APPEARANCE AND ODOR:
Solid, Light colored powder; slight odor.

---

3. FIRE AND EXPLOSION HAZARD DATA

---

FLASH POINT:..... Non-flammable
FLAMMABLE LIMITS - LEL:..... N/A
FLAMMABLE LIMITS - UEL:..... N/A
AUTOIGNITION TEMPERATURE:..... N/A

EXTINGUISHING MEDIA:
Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
See Hazardous Decomposition section for products of combustion.

---

4. REACTIVITY DATA

---

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Not Applicable

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Hydrogen Fluoride, Ammonia.

---

5. ENVIRONMENTAL INFORMATION

---

SPILL RESPONSE:
Observe precautions from other sections. Collect spilled material. Use wet sweeping compound or water to avoid dusting. Clean up residue. Place in a closed container.

---

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

---

5. ENVIRONMENTAL INFORMATION (continued)

---

RECOMMENDED DISPOSAL:
Incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HF. Do not dispose of in a sanitary landfill. Disposal alternative: Dispose of waste product in a facility permitted to accept chemical waste.

ENVIRONMENTAL DATA:
SUPPORTING DATA:

BIODEGRADATION:
Theoretical Oxygen Demand (ThOD): 0.320 g/g
Chemical Oxygen Demand (COD): 0.0007 g/g
20-Day Biochemical Oxygen Demand (BOD20): Nil

AQUATIC TOXICITY:
Fathead minnow (Pimephales promelas) 96-hr LC50: 766 mg/L
Water flea (Daphnia magna) 48-hr EC50: 632 mg/L
Bluegill sunfish (Lepomis macrochirus) 96-hr EC50: 569 mg/L
Green Algae (Selenastrum capricornutum) 14-Day EC50:
>1000 mg/L
Microtox (Photobacterium phosphoreum) 30-min EC50: 730 mg/L

BIONCONCENTRATION:
BCF = 1.8

REGULATORY INFORMATION:
Volatile Organic Compounds: N/A.
VOC Less H20 & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

The components of this product are in compliance with the chemical registration requirements of TSCA, EINECS, CDSL, AICS, MITI, KECI and PICCS.

OTHER ENVIRONMENTAL INFORMATION:
This substance has minimal toxicity to aquatic organisms (100 mg/L < Lowest LC50, EC50, or IC50 < or = 1000 mg/L).

No data are available on the toxicity effects of this substance on wastewater treatment system organisms.

This product can potentially generate Perfluorooctanoate anion, either through dissociation or metabolism, which has the potential to resist degradation and persist in the environment.

EPCRA HAZARD CLASS:

---

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

---

5. ENVIRONMENTAL INFORMATION (continued)

---

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

---

6. SUGGESTED FIRST AID

---

EYE CONTACT:
Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:
Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:
If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:
Do not induce vomiting. Drink two glasses of water. Call a physician.

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7. PRECAUTIONARY INFORMATION

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EYE PROTECTION:
Avoid eye contact. Wear vented goggles.

SKIN PROTECTION:
Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber. Use one or more of the following personal protection items as necessary to prevent skin contact: head covering, coveralls. Protective garments (other than gloves) should be made of either of the following materials:
polyethylene/polyvinylidene chloride (Saranex)

Use disposable shoe/boot covering or rubber boots. Disposable fabric is preferable for all protective garments.

RECOMMENDED VENTILATION:
Use with appropriate local exhaust ventilation. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:
Avoid breathing of airborne material. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: full-face high-

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: FC-143 FLUORAD Brand Fluorochemical Surfactant
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7. PRECAUTIONARY INFORMATION (continued)

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efficiency filter respirator, full-face supplied air respirator.

PREVENTION OF ACCIDENTAL INGESTION:
Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

RECOMMENDED STORAGE:
Store away from areas where product may come into contact with food or pharmaceuticals. Store at room temperature. Keep container closed when not in use.

**PREVENT MOISTURE CONTAMINATION TO KEEP POWDER FREE FLOWING.**

FIRE AND EXPLOSION AVOIDANCE:
Nonflammable.

OTHER PRECAUTIONARY INFORMATION:
No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of the hazardous decomposition products mentioned in the Reactivity Data section of this MSDS. Store work clothes separately from other clothing, food and tobacco products. Wash contaminated clothing thoroughly before re-use. Discard contaminated leather clothing. Decontaminate work surfaces frequently to avoid exposure by contact.

HMIS HAZARD RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0
PERSONAL PROTECTION: X (See precautions, section 7.)

EXPOSURE LIMITS

| INGREDIENT | VALUE | UNIT | TYPE | AUTH | SKIN* |
|---|---|---|---|---|---|
| AMMONIUM PERFLUOROOCTANOATE..... | 0.01 | MG/M3 | TWA | ACGIH | Y |
| AMMONIUM PERFLUOROHEXANOATE..... | 0.1 | MG/M3 | TWA | 3M | Y |
| AMMONIUM PERFLUOROHEPTANOATE..... | 0.1 | MG/M3 | TWA | 3M | Y |
| HEPTADECAFLUORONONANOIC ACID, AMMONIUM SALT..... | NONE | NONE | NONE | NONE | |

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:
- 3M: 3M Recommended Exposure Guidelines
- ACGIH: American Conference of Governmental Industrial Hygienists

- NONE: None Established

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: FC-143 FLUORAD Brand Fluorochemical Surfactant
August 25, 2000 PAGE 6

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8. HEALTH HAZARD DATA

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EYE CONTACT:
Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:
Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

INHALATION:
Illness requiring medical attention may result from a single exposure by inhalation to moderate quantities of this material.

May be absorbed by inhalation and persist in the body for an extended time.

Single overexposure, above recommended guidelines, may cause:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

IF SWALLOWED:
This product can potentially generate Perfluorooctanoate anion, either through dissociation or metabolism. Animal studies conducted on Perfluorooctanoate anion indicate effects including liver disturbances, weight loss, loss of appetite, adrenal and hematologic effects, and benign tumors of the liver, pancreas and testes of male rats. There are no known human health effects from anticipated exposure to this Perfluorooctanoate anion when used as intended and instructed.

Illness may result from a single swallowing of a moderate quantity of this material.

CANCER:
A mixture of ammonium perfluorooctanoate, ammonium perfluoroheptanoate, ammonium perfluoropentanoate and ammonium perfluorohexanoate, that was 93 to 97% AMMONIUM PERFLUOROOCTANOATE (3825-26-1) was fed to albino rats for 2 years, no compound induced carcinogenicity was found in the study. There were statistically significant compound related benign testicular tumors. In a second two-year study there were statistically significant compound related

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

8. HEALTH HAZARD DATA (continued)

benign tumors in the liver, pancreas, and testis when compared to ad libitum and pair-fed controls. Based on the current knowledge, these findings have no human health implications. (3825-26-1) (1983 and 1993 studies conducted jointly by 3M and DuPont).

MUTAGENICITY:
Not mutagenic in invitro mutagenicity assays. Did not cause cell transformation in a mammalian cell transformation assay.

REPRODUCTIVE/DEVELOPMENTAL TOXINS:
Not teratogenic in rabbits by oral administration. Not teratogenic to rats by gavage or inhalation exposures.

OTHER HEALTH HAZARD INFORMATION:
A Product Toxicity Summary Sheet is available.

The presence of organic fluorochemicals in the blood of the general population and subpopulations, such as workers, has been published dating back to the 1970's. 3M's epidemiological study of its own workers indicates no adverse effects.

This product can potentially generate Perfluorooctanoate anion, either through dissociation or metabolism. Perfluorooctanoate anion has the potential to be absorbed and remain in the body for long periods of time and may accumulate with repeated exposures. There are no known human health effects from anticipated exposure to this Perfluorooctanoate anion when used as intended and instructed.

SECTION CHANGE DATES

| INGREDIENTS | SECTION CHANGED SINCE July 28, 2000 | ISSUE |
|---|---|---|

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: FC-143 FLUORAD Brand Fluorochemical Surfactant
August 25, 2000 PAGE 8

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The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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# ATTACHMENT 3

# TEST SUBSTANCE PREPARATION PROCEDURE

# TEST SUBSTANCE PREPARATION PROCEDURE

Test Substance: Ammonium Perfluorooctanoate (APFO)
Vehicle : R.O. deionized water

A. Purpose:

The purpose of this procedure is to provide a method for the preparation of dosage solutions of APFO for oral (gavage) administration to rats on Primedica Argus Research Laboratories, Inc., Study number 418-020.

B. General Information:

1. All solution containers will be labeled and color coded. Each label will specify the protocol number, test substance identification, Argus batch number, concentration, dosage level, preparation date, expiration date and storage conditions.

2. Solutions will be prepared:
___ Daily __X__ Weekly __ For _ days of use
___ Once prior to dosing __ By Sponsor

3. Solutions will be administered at a final dosage volume of 5 mL/kg/day.

4. Safety:
X Gloves, uniform/lab coat, goggles or safety glasses and faceshield
X Dust-Mist Respirator (for solution preparation and dosing)
___ Half-Face Respirator
___ Full-Face Respirator/Positive Pressure Hood
X Tyvek sleeves (when using the bulk material)
X Work in a chemical fume hood and use a half-face respirator when using the bulk TA/S only

5. Dosage solutions adjusted for % Activity/Purity or Correction Factor:
___ Yes __X__ No (Calculations based on 100%)
___ Activity _____% Purity ___ Correction Factor

6. Sampling requirements: Cited in protocol.

7. Storage: Cited in protocol.

TEST SUBSTANCE PREPARATION PROCEDURE

C. Dosage Solution Preparation:

1. Weigh out the required amount of the test substance in an appropriately sized, labeled container (see PREPARATION CALCULATIONS).

2. Add approximately 80% of the required amount of vehicle to the container and mix with a stir bar and magnetic stir plate (see PREPARATION CALCULATIONS).

3. Once the test substance is completely dissolved, transfer the solution to an appropriately sized graduated cylinder. QS ad with vehicle to the required volume (see PREPARATION CALCULATIONS).

4. Stopper the graduated cylinder or cover with parafilm and mix by inversion several times to ensure proper mixing. Return the solution to the labeled container with the stir bar. Place on a magnetic stir plate and agitate prior to and during aliquotting, dosage administration and/or sampling.

5. Repeat steps (1) through (4) for each concentration.

Written By: Mark A. Cohen

Approved By: [signature] Date: 07-NOV-00

Clarification: ✓ No ___ Yes (See attached clarification form.)

Initials/Date: Christopher K. Ruppert 8/2/01

# ATTACHMENT 4

## NECROPSY, ORGAN WEIGHTS AND HISTOPATHOLOGICAL EVALUATION

## NECROPSY, ORGAN WEIGHTS AND HISTOPATHOLOGICAL EVALUATION

Organ Weights

The following organs will be individually weighed and organ-to-body weight and organ-to-brain weight ratios will be calculated for all P and F1 parental rats.

- brain
- kidneys
- spleen
- ovaries
- testes
- thymus
- target organs (if identified by amendment)
- liver
- adrenal glands
- pituitary
- uterus with oviducts and cervix
- epididymides
- prostate
- seminal vesicles (with coagulating glands and fluid)

For F1 and F2 generation weanlings, the following organs will be weighed from one randomly selected pup per sex per litter:

- brain
- spleen
- thymus

Tissue Retention

The following tissues will be collected from all P and F1 generation parental male and female rats at necropsy and retained in neutral buffered 10% formalin for possible histological evaluation:

- pituitary
- target organs (if identified by amendment)
- adrenal glands
- gross lesions (including tissue masses)

Female Rats

- vagina
- uterus with oviducts, cervix and ovaries

Male Rats

- testis (right)
- seminal vesicles (with coagulating gland)
- epididymis (right)
- prostate

Note: Testes will be fixed in Bouin's solution for 48 to 96 hours before being retained in neutral buffered 10% formalin.

The following tissues will be collected from all F1 and F2 generation weanling rats and retained in neutral buffered 10% formalin for possible histological evaluation:

| | |
|---|---|
| target organs<br>(if identified by amendment) | gross lesions<br>(including tissue masses) |

Histological Evaluation

Histological examination will be performed on tissues from 10 randomly selected rats per sex from the control and high dosage groups. If lesions attributed to the test substance are observed in the rats from the high dosage groups, the same organs will be examined histologically for the remaining rats in the control and high dosage groups and for the rats in the low and intermediate groups. All gross lesions will be examined histologically[a].

In addition to gross lesions such as atrophy or tumors, testicular histopathological examination should be conducted to identify treatment-related effects such as retained spermatids, missing germ cell layers or types, multinucleated giant cells or sloughing of spermatogenic cells into the lumen . Examination of the intact epididymis should include the caput, corpus and cauda (accomplished by evaluation of a longitudinal section) and conducted in order to identify such lesions as sperm granulomas, leukocytic infiltration (inflammation), aberrant cell types within the lumen, or the absence of clear cells in the cauda epididymal epithelium.

The postlactional ovary should contain primordial and growing follicles as well as the large corpora lutea of lactation. Histopathological examination should detect qualitative depletion of the primordial follicle population. A quantitative evaluation of primordial follicles should be conducted for F1 female rats; the number of rats, ovarian section selection and section sample size should be statistically appropriate for the evaluation procedure used. Examination should include enumeration of the number of primordial follicles, which can be combined with small growing follicles, for comparison of ovaries of rats assigned to treated and control groups.

Additionally, reproductive organs of the low and intermediate dosage group rats suspected of reduced fertility (e.g., those rats that failed to mate, conceive, sire or delivery healthy offspring, or for which estrous cyclicity or sperm number, motility or morphology were affected, should be subjected to histological evaluation[a].

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a. Should results warrant examination of the remaining control and high dosage group rats and the rats in the low and intermediate dosage groups and conduct of the quantitative evaluation, or additional evaluations of low and intermediate dosage groups rats suspected of reduced fertility, scheduled report dates will be adjusted accordingly. Additional costs will be incurred should these evaluations be required.November 7, 2000

PRIMEDICA

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Telefax: (215) 443-8587

PROTOCOL 418-020

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS

SPONSOR'S STUDY NUMBER: T-6889.6

Amendment 1 - 18 December 2000

1. Body Weight and Age (page 6 of the protocol):

   Actual body weights will be recorded the day after receipt and will be documented in the raw data.

   Reason for Change:

   This change corrects a typographical error.

2. Randomization and Cohabitation (page 9 of the protocol):

   At weaning, a table of random units or a computer-generated randomization procedure will be used to select two F1 generation pups per sex per litter per group (60 male and 60 female pups per group), resulting in a total of 600 rats (300 rats per sex) chosen for continued evaluation, rather than 30 male and 30 female (1 per sex per litter) F1 generation pups per group, resulting in a total of 300 rats (150 rats per sex) chosen for continued evaluation. At least two male pups and two female pups, rather than one male pup and one female pup, per litter when possible, will be selected. The body weights will be recorded when rats reach sexual maturation.

   Following sexual maturation, a table of random units or a computer-generated randomization procedure will be used to select one male and one female F1 generation rat per litter per group for continuation through mating to produce the F2 generation. If results warrant that the study be extended to include a third generation, the procedures previously described for the F1 generation will be used for selection of F2 generation pups continued on study.

ANY REVISIONS TO THIS FINALIZED AMENDMENT MUST BE MADE BY SUBSEQUENT AMENDMENT.

Reason for Change:

The Sponsor requested that sexual maturation be measured for two pups per sex per litter per group.

3. Rationale for Dosage Selection (page 11 of the protocol):

The intermediate dosage levels are expected to produce minimal observable toxic effects, rather than the intermediate dosage level is expected to produce minimal observable toxic effects.

Reason for Change:

This change corrects the protocol because there are two intermediate dosage levels rather than one intermediate dosage level.

4. Postweaning Developmental Observations (page 15 of the protocol):

Nipple Examination:

On day 12 postpartum, all pups will be examined for the presence of nipples. The criterion is met when there is a nipple present.

Reason for Change:

The addition was requested by the Sponsor.

5. Sperm Evaluations (page 18 of the protocol):

The left testis will be used for evaluation of testicular spermatid concentration using computer-assisted sperm analysis (CASA). The left testis will be weighed (both before and after removal of the tunica albuginea) and then homogenized. A sample from the resulting homogenate will be stained with an IDENT Stain Kit from Hamilton Thorne Research and a slide will be prepared for analysis by the Hamilton Thorne IVOS. Ten fields will be analyzed to determine testicular spermatid concentration (spermatids per gram of tissue weight). All images produced during analysis will be retained as raw data.

Reason for Change:

This change was added in order to comply with U.S. Environmental Protection Agency Health Effects Test Guidelines (OPPTS 870.3800), August, 1998.

ANY REVISIONS TO THIS FINALIZED AMENDMENT MUST BE MADE BY SUBSEQUENT AMENDMENT.

6. F1/F2 Generation Pups Not Selected for Continued Observation (page 19 of the protocol):

Tissues from one of the three selected pups per sex per litter, rather than from all three selected pups per sex per litter, will be weighed. Tissues from the three selected pups per sex per litter will be retained in neutral buffered 10% formalin for possible histological evaluation.

Reason for Change:

This change clarifies the protocol.

7. F1/F2 Generation Pups Not Selected for Continued Observation (page 19 of the protocol):

All pups not selected for continued observation following continued observations for sexual maturation will be sacrificed and a limited necropsy will be performed. The thoracic, abdominal and pelvic cavities will be examined for gross lesions; gross lesions will be preserved in neutral buffered 10% formalin. All other tissues and the carcass will be discarded.

Reason for Change:

This addition provides for the sacrifice and necropsy of rats not selected for continued observation following continued observations for sexual maturation.

8. Tissue Retention (pages 1 and 2 of ATTACHMENT 4 to the protocol):

The following tissues will be collected from the three selected F1 and F2 generation weanling rats per sex per litter, rather than from all F1 and F2 generation weanling rats, and retained in neutral buffered 10% formalin for possible histological evaluation:

| | |
|---|---|
| target organs<br>(if identified by amendment) | gross lesions<br>(including tissue masses) |

ANY REVISIONS TO THIS FINALIZED AMENDMENT MUST BE MADE BY SUBSEQUENT AMENDMENT.

Reason for Change:

This change clarifies the protocol.

Alan M. Hoberman, Ph.D., DABT Date
Director of Research

Raymond G. York, Ph.D., DABT Date
Associate Director of Research
Study Director

Dena C. Lebo, V.M.D. Date
Chairperson, Institutional Animal Care
and Use Committee

John Butenhoff, Ph.D., DABT, CIH Date
Study Monitor
Sponsor's Representative

ANY REVISIONS TO THIS FINALIZED AMENDMENT MUST BE MADE BY SUBSEQUENT AMENDMENT.

PRIMEDICA

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PROTOCOL 418-020

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS

SPONSOR'S STUDY NUMBER: T-6889.6

Amendment 2 - 8 February 2001

1. Nipple Examination (page 2 of Amendment 1):

[Effective Date: 1 February 2001] On day 12 postpartum, all male pups will be examined for the presence of nipples. The criterion of passing is met when no nipples are present.

Reason for Change:

This change clarifies the criterion and sex of pups to be examined.

2/8/01

Alan M. Hoberman, Ph.D., DABT Date
Director of Research

08-FEB-01

Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

08 FEB 01

Theresa H. Woodard, D.V.M. Date
Chairperson, Institutional Animal Care
and Use Committee

09/FEB/01

John Butenhoff, Ph.D., DABT, CIH Date
Study Monitor and Sponsor's Representative

**Any revisions to this finalized amendment must be made by subsequent amendment.**

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PROTOCOL 418-020

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS

SPONSOR'S STUDY NUMBER: T-6889.6

Amendment 3 - 20 July 2001

1. Gross Necropsy and Histopathology (page 17 of the protocol):

Tissues will be shipped (ambient conditions) for embedding to:

W. Ray Brown, D.V.M., Ph.D., ACVP
Veterinary Pathologist
Research Pathology Services, Inc.
438 E. Butler Avenue
New Britain, Pennsylvania 18901
Telephone: (215) 345-7070
Fax: (215) 345-4326

The recipient will be notified in advance of sample shipment.

Reason for Change:

This change adds the address for tissue shipment to the protocol.

Alan M. Hoberman, Ph.D., DABT — Date
Director of Research

Valerie A. Sharper, M.S. — Date
Director of Study Management for
Raymond G. York, Ph.D., DABT
Associate Director of Research and
Study Director

Theresa H. Woodard, D.V.M. — Date
Chairperson, Institutional Animal Care
and Use Committee

John Butenhoff, Ph.D., DABT, CIH — Date
Study Monitor

**Any revisions to this finalized amendment must be made by subsequent amendment.**

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ARGUS RESEARCH
*Charles River Laboratories*
*Discovery and Development Services*

PROTOCOL 418-020

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS

SPONSOR'S STUDY NUMBER: T-6889.6

Amendment 4 - 19 November 2001

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1. Litter Data (page 14 of the protocol):

   [Effective Date: 6 August 2001] Lactation Index will be calculated as the percentage of pups that survive from day 5 to day 22 postpartum, rather than day 8 to day 22 postpartum.

   Reason for Change:

   This change was made to account for survival of pups for entire period following the calculation of viability index (percentage of pups born that survive to days 1 and 5 postpartum).

19 Nov 01
Alan M. Hoberman, Ph.D., DABT Date
Director of Research

19 NOV 2001
Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

19 NOV 01
Theresa H. Woodard, D.V.M. Date
Chairperson, Institutional Animal Care
and Use Committee

20 NOV 2001
John Butenhoff, Ph.D., DABT, CIH Date
Study Monitor

**Any revisions to this finalized amendment must be made by subsequent amendment.**

# APPENDIX G

# DEVIATIONS FROM THE PROTOCOL AND THE STANDARD OPERATING PROCEDURES OF THE TESTING FACILITY

## DEVIATIONS FROM THE PROTOCOL AND THE STANDARD OPERATING PROCEDURES OF THE TESTING FACILITY

1. On 22 February 2001, the following P generation female rats were not weighed and potentially received the incorrect dosage volumes based on the previous body weight.

| Dosage Group | Dosage (mg/kg/day) | Day of Study[a] | Rat Numbers |
|---|---|---|---|
| I | 0 | DL 8 | 13814, 13817, 13818, 13830 |
| | | DL 11 | 13806, 13808 |
| | | DG 18 | 13809 |
| II | 1 | DL 8 | 13831, 13849, 13859, 13860 |
| | | DL 11 | 13837, 13850, 13853, 13858 |
| III | 3 | DL 8 | 13868, 13874, 13877, 13882 |
| | | DL 11 | 13889 |
| IV | 10 | DL 8 | 13892, 13899, 13913, 13914, 13916, 13917, 13919, 13920 |
| | | DL 21 | 13907 |
| V | 30 | DL 5 | 13945 |
| | | DL 8 | 13931, 13932, 13950 |
| | | DL 11 | 13923 |

a. DL is used as an abbreviation for day of lactation. DG is used as an abbreviation for day of gestation.

These deviations did not adversely affect the outcome or interpretation of the study because it was a single event and all rats were administered a dosage very similar to the dosage they should have received.

2. On 1 December 2000, DS 19, the P generation male and female rats in all dosage groups were administered the appropriate vehicle or test article approximately two hours and fifteen minutes late and three hours early, respectively. This deviation did not adversely affect the outcome or interpretation of the study because it was a single event and all rats received the appropriate vehicle or test article.

3. Body weights were not recorded and predosage and postdosage observations were not recorded for the following rats. It is presumed that the rats were not dosed.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | V | 30 | 08 MAR 01 | DS 1 | Female | 1562 |
| | | | 08 MAR 01 | DS 1 | Female | 1563 |

These deviations did not adversely affect the outcome or interpretation of the study because it was a single event of a missed dosage and sufficient data were available to evaluate these parameters.

4. On 13 April 2001, day 35 of study (DS 35), F1 generation male rat 1166 in the 3 mg/kg/day dosage group received 0.94 mL of the test substance rather than 0.86 mL. This deviation did not adversely affect the outcome or interpretation of the study because it was a single event and the amount of overage was small (0.08 mL).

5. On 15 April 2001, F1 generation female rats in the 30 mg/kg/day dosage group received the incorrect dosage volume.

| Day of Study | Rat Number | Dosage Volume | | |
|---|---|---|---|---|
| | | Correct Volume (mL) | Amount Received (mL) | Amount Deviated (mL) |
| DS 41 | 1541 | 0.82 | 1.3 | 0.48 |
| DS 40 | 1544 | 1.1 | 1.4 | 0.3 |
| DS 40 | 1545 | 1 | 1.6 | 0.6 |
| DS 40 | 1546 | 1 | 1.2 | 0.2 |
| DS 40 | 1548 | 0.87 | 1.1 | 0.23 |
| DS 40 | 1550 | 0.74 | 1.1 | 0.36 |
| DS 40 | 1552 | 0.98 | 1.2 | 0.22 |
| DS 40 | 1555 | 0.91 | 1.1 | 0.19 |
| DS 39 | 1557 | 1.1 | 1.4 | 0.3 |
| DS 39 | 1558 | 0.9 | 1.4 | 0.5 |
| DS 39 | 1560 | 0.93 | 1.1 | 0.17 |
| DS 39 | 1564 | 0.88 | 1.2 | 0.32 |
| DS 39 | 1565 | 0.89 | 1.3 | 0.41 |
| DS 39 | 1566 | 1 | 1.4 | 0.4 |
| DS 39 | 1568 | 1.1 | 1.5 | 0.4 |
| DS 39 | 1571 | 0.88 | 1.2 | 0.32 |
| DS 39 | 1573 | 1.1 | 1.4 | 0.3 |
| DS 38 | 1576 | 0.82 | 0.86 | 0.04 |
| DS 38 | 1578 | 0.93 | 1.3 | 0.37 |
| DS 38 | 1579 | 1 | 1.3 | 0.3 |
| DS 37 | 1583 | 0.91 | 1.3 | 0.39 |
| DS 37 | 1584 | 0.86 | 1.2 | 0.34 |
| DS 37 | 1586 | 0.84 | 1.1 | 0.26 |
| DS 37 | 1587 | 0.88 | 1.4 | 0.32 |
| DS 37 | 1588 | 0.97 | 1.4 | 0.43 |
| DS 37 | 1589 | 1 | 1.3 | 0.3 |
| DS 37 | 1591 | 0.97 | 1.4 | 0.43 |
| DS 37 | 1593 | 1.1 | 1.3 | 0.2 |

These deviations did not adversely affect the outcome or interpretation of the study because it was a single event for each of the rats; they received more rather than less of the test substance and the amount and the overage was small.

6. Postdosage observations were performed out of the range of 60 ± 10 minutes on the following dates.

| Dosage Group | Dosage (mg/kg/day) | Date | Number of P Generation Rats | | Range of Time Deviated (minutes) |
|---|---|---|---|---|---|
| | | | Male Rats | Female Rats | |
| I | 0 | 18 NOV 00 | 1 | 0 | +1 |
| | | 04 DEC 00 | 0 | 4 | +1 to +3 |
| | | 28 DEC 00 | 0 | 2 | +1 |
| | | 06 JAN 01 | 1 | 0 | +1 |
| | | 18 FEB 01 | 5 | 0 | +1 to +2 |
| | | 13 MAR 01 | 0 | 1 | +4 |
| | | 15 MAR 01 | 0 | 1 | +14 |
| II | 1 | 15 NOV 00 | 1 | 0 | +52 |
| | | 18 NOV 00 | 14 | 0 | +1 to +10 |
| | | 01 DEC 00 | 0 | 1 | +329 |
| | | 04 DEC 00 | 14 | 0 | +1 to +6 |
| | | 06 DEC 00 | 0 | 1 | +1 |
| | | 09 DEC 00 | 2 | 0 | +1 |
| III | 3 | 18 NOV 00 | 16 | 0 | +1 to +8 |
| | | 06 DEC 00 | 0 | 3 | +1 to +2 |
| | | 18 JAN 01 | 2 | 14 | +1 to +5 |
| | | 02 FEB 01 | 0 | 3 | +1 to +2 |
| | | 27 FEB 01 | 0 | 1 | -1 |
| IV | 10 | 18 NOV 00 | 17 | 0 | +1 to +8 |
| | | 05 DEC 00 | 4 | 0 | +1 |
| | | 01 FEB 01 | 0 | 2 | -1 |
| | | 11 FEB 01 | 0 | 1 | +80 |
| | | 12 FEB 01 | 0 | 1 | -1 |
| | | 13 FEB 01 | 2 | 0 | +1 to +2 |
| | | 22 FEB 01 | 2 | 0 | +1 to +2 |
| | | 27 FEB 01 | 0 | 1 | -1 |
| V | 30 | 11 DEC 00 | 0 | 2 | +1 |
| | | 25 DEC 00 | 17 | 0 | +1 to +5 |
| | | 05 JAN 01 | 1 | 0 | +229 |
| | | 02 FEB 01 | 0 | 2 | -1 |
| | | 07 FEB 01 | 0 | 1 | +4 |
| | | 13 FEB 01 | 10 | 0 | +1 to +7 |
| | | 23 FEB 01 | 0 | 11 | -4 to -1 |
| | | 26 FEB 01 | 0 | 2 | -1 |
| | | 27 FEB 01 | 0 | 1 | -1 |

| Dosage Group | Dosage (mg/kg/day) | Date | Number of F1 Generation Rats | | Range of Time Deviated (minutes) |
|---|---|---|---|---|---|
| | | | Male Rats | Female Rats | |
| I | 0 | 09 MAR 01 | 3 | 0 | +1 |
| | | 15 MAR 01 | 36 | 0 | +1 to +17 |
| | | 25 MAR 01 | 4 | 0 | +1 to +3 |
| | | 10 APR 01 | 0 | 11 | +1 to +6 |
| | | 15 APR 01 | 2 | 0 | +1 |
| | | 17 APR 01 | 1 | 0 | +5 |
| | | 21 APR 01 | 12 | 0 | +1 to +3 |
| | | 23 APR 01 | 4 | 0 | +1 to +3 |
| | | 23 JUN 01 | 0 | 1 | +1 |
| | | 02 JUL 01 | 1 | 0 | +1 |
| II | 1 | 12 MAR 01 | 0 | 2 | -1 |
| | | 13 MAR 01 | 0 | 22 | -4 to -1 |
| | | 15 MAR 01 | 0 | 1 | -2 |
| | | 24 MAR 01 | 0 | 2 | +1 |
| | | 27 MAR 01 | 0 | 3 | +1 |
| | | 02 APR 01 | 21 | 0 | +1 to +3 |
| | | 05 APR 01 | 1 | 0 | -1 |
| | | 09 APR 01 | 10 | 0 | -5 to -1 |
| | | 12 APR 01 | 42 | 0 | +1 to +10 |
| | | 29 APR 01 | 0 | 1 | +1 |
| | | 06 JUN 01 | 0 | 3 | +1 |
| | | 12 JUN 01 | 0 | 2 | +1 |
| | | 19 JUN 01 | 0 | 3 | +1 to +2 |
| | | 27 JUN 01 | 0 | 28 | +26 to +40 |
| III | 3 | 23 MAR 01 | 0 | 5 | +1 to +2 |
| | | 12 APR 01 | 57 | 0 | +8 to +16 |
| | | 18 APR 01 | 1 | 0 | -1 |
| | | 20 APR 01 | 4 | 0 | +1 |
| | | 04 MAY 01 | 0 | 2 | +1 to +2 |
| | | 05 MAY 01 | 0 | 2 | +1 |
| | | 31 MAY 01 | 0 | 1 | +63 |
| | | 14 JUN 01 | 0 | 2 | +1 |
| | | 29 JUN 01 | 0 | 1 | +1 |
| | | 07 JUL 01 | 0 | 3 | +1 |
| IV | 10 | 14 MAR 01 | 0 | 2 | -1 |
| | | 25 MAR 01 | 0 | 1 | +1 |
| | | 02 APR 01 | 10 | 0 | +4 to +7 |
| | | 09 APR 01 | 0 | 1 | -1 |
| | | 12 APR 01 | 42 | 0 | +8 to +15 |
| | | 19 APR 01 | 0 | 1 | -1 |
| | | 06 JUN 01 | 13 | 0 | +1 to +4 |
| | | 18 JUN 01 | 0 | 9 | +1 to +3 |

| Dosage Group | Dosage (mg/kg/day) | Date | Number of F1 Generation Rats | | Range of Time Deviated (minutes) |
|---|---|---|---|---|---|
| | | | Male Rats | Female Rats | |
| V | 30 | 08 MAR 01 | 2 | 1 | -1 to +5 |
| | | 15 MAR 01 | 1 | 0 | +41 |
| | | 17 MAR 01 | 6 | 0 | +1 to +2 |
| | | 19 MAR 01 | 55 | 0 | +67 to +79 |
| | | 30 MAR 01 | 0 | 1 | +29 |
| | | 02 APR 01 | 2 | 0 | +1 to +12 |
| | | 03 APR 01 | 5 | 0 | -1 |
| | | 08 APR 01 | 3 | 0 | +1 |
| | | 10 APR 01 | 1 | 0 | -1 |
| | | 12 APR 01 | 54 | 0 | +5 to +20 |
| | | 20 APR 01 | 0 | 15 | +1 to +5 |
| | | 16 MAY 01 | 0 | 10 | -2 to -1 |
| | | 09 JUN 01 | 0 | 3 | -2 to -1 |
| | | 12 JUN 01 | 0 | 1 | +1 |
| | | 01 JUL 01 | 0 | 6 | +1 to +3 |

These deviations did not adversely affect the outcome or interpretation of the study because, except for fifteen incidents, the extent of the deviation was ten minutes or less.

7. Postdosage observations were not recorded for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| P | II | 1 | 18 JAN 01 | DS 67 | Male | 13656 |
| | IV | 10 | 18 JAN 01 | DS 67 | Male | 13712 |
| | V | 30 | 15 DEC 00 | DS 33 | Male | 13741 |
| F1 | I | 0 | 22 MAR 01 | DS 14 | Male | 1034 |
| | III | 3 | 26 MAR 01 | DS 19 | Male | 1154 |
| | | | 21 MAY 01 | DS 76 | Male | 1132 |
| | | | 05 JUL 01 | DL 15 | Female | 1448 |
| | IV | 10 | 31 MAR 01 | DS 25 | Male | 1186 |
| | | | 12 APR 01 | DS 34 | Male | 1224 |
| | | | 12 APR 01 | DS 34 | Male | 1225 |
| | | | 12 APR 01 | DS 34 | Male | 1236 |
| | | | 12 APR 01 | DS 34 | Male | 1237 |
| | | | 12 APR 01 | DS 34 | Male | 1238 |
| | V | 30 | 12 APR 01 | DS 34 | Male | 1246 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

8. The estrous cycle evaluation was not recorded for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| P | III | 3 | 19 JAN 01 | DS 68 | Female | 13882 |

This deviation did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

9. Observations for maternal behavior were not recorded for the following P generation female rats.

| Dosage Group | Dosage (mg/kg/day) | Day of Study | Date | Number of P Generation Female Rats | Behavior Observation Not Recorded[a] | Number of Pups Affected |
|---|---|---|---|---|---|---|
| I | 0 | DL 1 | 16 FEB 01 | 1 | 1, 2, 3, 4, 5 | 1 female |
| | | DL 22 | 05 MAR 01 | 2 | 4, 5 | all |
| | | DL 22 | 06 MAR 01 | 3 | 4, 5 | all |
| | | DL 22 | 07 MAR 01 | 3 | 4, 5 | all |
| | | DL 22 | 08 MAR 01 | 4 | 4, 5 | all |
| | | DL 22 | 09 MAR 01 | 7 | 4, 5 | all |
| | | DL 22 | 10 MAR 01 | 1 | 4, 5 | all |
| | | DL 22 | 13 MAR 01 | 1 | 4, 5 | all |
| | | DL 22 | 19 MAR 01 | 1 | 4, 5 | all |
| II | 1 | DL 1 | 14 FEB 01 | 1 | 1, 2, 3, 4, 5 | 1 female |
| | | DL 22 | 05 MAR 01 | 4 | 4, 5 | all |
| | | DL 22 | 06 MAR 01 | 9 | 4, 5 | all |
| | | DL 22 | 07 MAR 01 | 5 | 4, 5 | all |
| | | DL 22 | 08 MAR 01 | 4 | 4, 5 | all |
| | | DL 22 | 09 MAR 01 | 4 | 4, 5 | all |
| III | 3 | DL 22 | 05 MAR 01 | 1 | 4, 5 | all |
| | | DL 22 | 06 MAR 01 | 9 | 4, 5 | all |
| | | DL 22 | 07 MAR 01 | 7 | 4, 5 | all |
| | | DL 22 | 08 MAR 01 | 4 | 4, 5 | all |
| | | DL 22 | 09 MAR 01 | 6 | 4, 5 | all |
| | | DL 22 | 10 MAR 01 | 1 | 4, 5 | all |
| | | DL 22 | 13 MAR 01 | 1 | 4, 5 | all |
| IV | 10 | DL 1 | 14 FEB 01 | 2 | 1, 2, 3, 4, 5 | 1 male |
| | | DL 1 | 15 FEB 01 | 1 | 1, 2, 3, 4 | 1 female |
| | | DL 22 | 06 MAR 01 | 4 | 4, 5 | all |
| | | DL 22 | 07 MAR 01 | 7 | 4, 5 | all |
| | | DL 22 | 08 MAR 01 | 8 | 4, 5 | all |
| | | DL 22 | 09 MAR 01 | 10 | 4, 5 | all |
| V | 30 | DL 1 | 14 FEB 01 | 1 | 1, 2, 3, 4, 5 | 1 female |
| | | DL 1 | 16 FEB 01 | 1 | 1, 2, 3, 4, 5 | 1 male |
| | | DL 22 | 05 MAR 01 | 1 | 4, 5 | all |
| | | DL 22 | 06 MAR 01 | 5 | 4, 5 | all |
| | | DL 22 | 07 MAR 01 | 10 | 4, 5 | all |
| | | DL 22 | 08 MAR 01 | 3 | 4, 5 | all |
| | | DL 22 | 09 MAR 01 | 7 | 4, 5 | all |
| | | DL 22 | 10 MAR 01 | 1 | 4, 5 | all |
| | | DL 22 | 11 MAR 01 | 1 | 4, 5 | all |

a. Behavior observation not recorded
1 - postpartum grooming
2 - removal of pup amniotic sac
3 - removal of pup placenta/umbilical cord
4 - normal nesting activity
5 - normal nursing activity

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were collected to evaluate this parameter.

10. Observations for pups were not recorded for the following litters.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Litter Number | Number of Pups |
|---|---|---|---|---|---|---|
| F1 | III | 3 | 10 MAR 01 | DL 22 | 13864 | 6 |
| | V | 30 | 10 MAR 01 | DL 22 | 13940 | 15 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

11. Predosage observations and dosage volume were not recorded for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | I | 0 | 22 MAR 01 | DS 14 | Female | 1030 |

This deviation did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

12. Predosage observations, dosage volumes and postdosage observations were not recorded for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | III | 3 | 12 APR 01 | DS 34 | Male | 1166 |
| | IV | 10 | 12 APR 01 | DS 34 | Male | 1225 |
| | | | 12 APR 01 | DS 34 | Male | 1227-1235 |
| | | | 12 APR 01 | DS 34 | Male | 1239 |
| | | | 12 APR 01 | DS 34 | Male | 1240 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient observations were available to evaluate theses parameters. There was no discrepancy in the chemistry data, therefore it is presumed that the rats were dosed appropriately.

13. Terminal body weights were not recorded for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | V | 30 | 06 APR 01 | DS 28 | Female | 1596 |

This deviation did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

14. On 29 May 2001, DG 0, F1 generation female rat 1486 in the 10 mg/kg/day dosage group was not removed from cohabitation and remained in cohabitation until DG 1. As a result of not being removed from cohabitation until DG 1, the feed consumption value for the interval DG 0 to DG 7 was not recorded. This deviation did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate feed consumption.

15. Feed left values were not recorded for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | II | 1 | 09 MAR 01 | DS 4 | Female | 1365 |
| | | | 26 APR 01 | DS 51 | Female | 1373 |
| | IV | 10 | 09 MAR 01 | DS 3 | Female | 1484 |
| | | | 05 APR 01 | DS 29 | Female | 1500 |
| | V | 30 | 09 MAR 01 | DS 2 | Female | 1562 |
| | | | 09 MAR 01 | DS 2 | Female | 1563 |
| | | | 06 APR 01 | DS 28 | Female | 1596 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

16. Vaginal patency was not evaluated until observed for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date of Last Evaluation | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | II | 1 | 23 MAR 01 | DS 15 | Female | 1409 |
| | III | 3 | 23 MAR 01 | DS 14 | Female | 1468 |
| | IV | 10 | 23 MAR 01 | DS 16 | Female | 1489 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

17. Preputial separation was not evaluated until observed for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date of Last Evaluation | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | I | 0 | 03 APR 01 | DS 25 | Male | 1040 |
| | | | 03 APR 01 | DS 25 | Male | 1052 |
| | | | 03 APR 01 | DS 25 | Male | 6553 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

18. Observations for sexual maturation were not recorded for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | I | 0 | 05 APR 01 | DS 39 | Male | 1059 |
| | | | 05 APR 01 | DS 39 | Male | 1060 |
| | | | 08 APR 01 | DS 30 | Male | 6555 |
| | IV | 10 | 07 APR 01 | DS 29 | Male | 1222 |
| | | | 08 APR 01 | DS 30 | Male | 1222 |

These deviations did not adversely affect the outcome or interpretation of the study because these sufficient data were available to evaluate this parameter.

19. Maternal observations were not recorded for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Rat Number | Number of Pups |
|---|---|---|---|---|---|---|
| F1 | I | 0 | 14 JUL 01 | DL 22 | 1328 | all |
| | IV | 10 | 25 JUN 01 | DL 5 | 1490 | all |
| | | | 07 JUL 01 | DL 15 | 1523 | 1 |
| | V | 30 | 21 JUN 01 | DL 1 | 1548 | 1 |
| | | | 23 JUN 01 | DL 1 | 1568 | 1 |
| | | | 25 JUN 01 | DL 5 | 1573 | 1 |
| | | | 28 JUN 01 | DL 8 | 1557 | 1 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

20. Clinical observations were not recorded for the following pups.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Litter Number | Number of Pups |
|---|---|---|---|---|---|---|
| F1 | V | 30 | 25 JUN 01 | DL 3 | 1568 | 12 |
| | | | 26 JUN 01 | DL 4 | 1568 | 12 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

21. Anogenital distance measurements were not recorded for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | II | 3 | 12 JUL 01 | DL 22 | Female | 1474 |

This deviation did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

22. The terminal blood sample was not taken for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| P | I | 0 | 19 MAR 01 | DL 22 | Female | 13809 |

This deviation did not adversely affect the outcome or interpretation of the study because this was a control group rat and sufficient data were available to evaluate this parameter.

23. Necropsy observations were not recorded for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | II | 1 | 14 JUL 01 | DL 22 | Female | 1362 |

This deviation did not adversely affect the outcome or interpretation of the study because it was a single event.

24. The pituitary was not retained for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| P | I | 0 | 07 MAR 01 | DL 22 | Female | 13807 |

This deviation did not adversely affect the outcome or interpretation of the study because this was a control group rat and sufficient data were available to evaluate this parameter.

25. The right adrenal was lost during processing and therefore not saved in neutral buffered 10% formalin for the following rat.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | V | 30 | 02 JUL 01 | DS 118 | Male | 1252 |

This deviation did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate this parameter.

26. The organ weights for brain, kidneys, spleen, ovaries, thymus, liver, adrenal glands, pituitary and uterus with oviducts and cervix were not weighed and the pituitary and adrenal glands were not retained for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | I | 0 | 08 MAR 01 | DS 1 | Female | 1319 |
| | | | 08 MAR 01 | DS 1 | Female | 1320 |
| | II | 1 | 09 MAR 01 | DS 4 | Female | 1365 |
| | | | 26 APR 01 | DS 51 | Female | 1373 |
| | III | 3 | 13 MAR 01 | DS 7 | Female | 1432 |
| | IV | 10 | 09 MAR 01 | DS 3 | Female | 1484 |
| | V | 30 | 09 MAR 01 | DS 2 | Female | 1562 |
| | | | 09 MAR 01 | DS 2 | Female | 1563 |
| | | | 11 MAR 01 | DS 3 | Female | 1574 |
| | | | 11 MAR 01 | DS 3 | Female | 1575 |
| | | | 13 MAR 01 | DS 6 | Female | 1559 |
| | | | 14 MAR 01 | DS 14 | Female | 1549 |

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate these parameters.

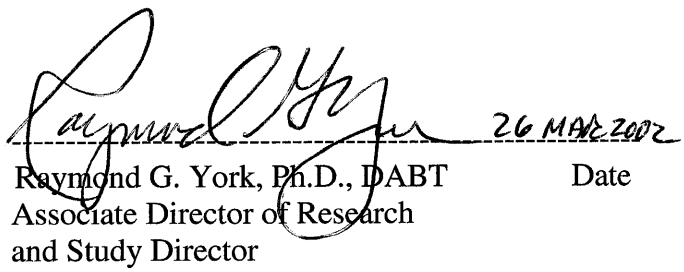
27. Reproductive organs (uterus, ovaries, oviducts, cervix and vagina) were not retained for the following rats.

| Generation | Dosage Group | Dosage (mg/kg/day) | Date | Day of Study | Sex | Rat Number |
|---|---|---|---|---|---|---|
| F1 | I | 0 | 23 JUN01 | DG 25 | Female | 1316 |
| | | | 06 JUL 01 | DG 25 | Female | 1358 |
| | II | 1 | 25 JUN 01 | DG 25 | Female | 1378[a] |
| | III | 3 | 23 JUN 01 | DG 25 | Female | 1458 |
| | | | 26 JUN 01 | DG 25 | Female | 1446[a] |
| | IV | 10 | 23 JUN 01 | DG 25 | Female | 1483 |
| | | | 29 JUN 01 | DG 25 | Female | 1511 |
| | V | 30 | 25 JUN 01 | DG 25 | Female | 1578 |

a. Uterus and cervix were retained.

These deviations did not adversely affect the outcome or interpretation of the study because sufficient data were available to evaluate these parameters.

All deviations are documented in the raw data.



26 MAR 2002

Raymond G. York, Ph.D., DABT Date
Associate Director of Research
and Study Director

# APPENDIX H

# CERTIFICATE OF ANALYSIS

**Centre Analytical Laboratories, Inc.**
3048 Research Drive State College, PA 16801
Phone: (814) 231-8032 Fax: (814) 231-1253 or (814) 231-1580

# *INTERIM CERTIFICATE OF ANALYSIS*

**Centre Analytical Laboratories COA Reference #: 023-033**
**3M Product: Ammonium Perfluorooctanoate**
**Test Control Reference #: TCR-99131-37, Lot #: 332**
**Purity: 95.2%**

| Test Name | Specifications | Result |
|---|---|---|
| **Purity**[1] | | **95.2%** |
| Appearance | White, crystalline solid | Conforms |
| Identification<br>NMR | | Positive |
| Metals (ICP/MS)<br>1. Calcium<br>2. Magnesium<br>3. Sodium<br>4. Potassium<br>5. Nickel<br>6. Iron<br>7. Manganese | | <br>1. 0.001 wt./wt.%<br>2. <0.001 wt./wt.%<br>3. 0.005 wt./wt.%<br>4. <0.001 wt./wt.%<br>5. <0.001 wt./wt.%<br>6. <0.001 wt./wt.%<br>7. <0.001 wt./wt.% |
| Total % Impurity (NMR) | | 0.34 wt./wt.% |
| Total % Impurity (LC/MS) | | 4.49 wt./wt.% |
| Total % Impurity (GC/MS) | | None Quantified |
| Residual Solvents (TGA) | | None Detected |
| Purity by DSC | | 99.7% |
| Inorganic Anions (IC)<br>1. Chloride<br>2. Fluoride<br>3. Bromide<br>4. Nitrate<br>5. Nitrite<br>6. Phosphate<br>7. Sulfate | | <br>1. <0.015 wt./wt.%<br>2. <0.005 wt./wt.%<br>3. <0.040 wt./wt.%<br>4. <0.009 wt./wt.%<br>5. <0.006 wt./wt.%<br>6. <0.006 wt./wt.%<br>7. <0.040 wt./wt.% |
| Organic Acids[2] (IC)<br>1. TFA<br>2. PFPA<br>3. HFBA<br>4. NFPA | | <br>1. <0.1 wt./wt.%<br>2. <0.1 wt./wt.%<br>3. <0.1 wt./wt.%<br>4. <0.25 wt./wt.% |
| Elemental Analysis[3]:<br>1. Carbon<br>2. Hydrogen<br>3. Nitrogen<br>4. Sulfur<br>5. Fluorine | <br>Theoretical Value = 22.3%<br>Theoretical Value = 0.935%<br>Theoretical Value = 3.25%<br>Theoretical Value = 0%<br>Theoretical Value = 66.1% | <br>1. 18.9 wt./wt.%<br>2. 1.31 wt./wt.%<br>3. 3.75 wt./wt.%<br>4. 4.34 wt./wt.%<br>5. 63.2 wt./wt.% |
| Ammonium Analysis[3]<br>Ion Selective Electrode | Theoretical Value = 4.18% | 3.49 wt./wt. % |

Centre Analytical Laboratories, Inc.
3048 Research Drive State College, PA 16801
Phone: (814) 231-8032 Fax: (814) 231-1253 or (814) 231-1580

# *INTERIM CERTIFICATE OF ANALYSIS*

**Centre Analytical Laboratories COA Reference #: 023-033**
**3M Product: Ammonium Perfluorooctanoate**
**Test Control Reference #: TCR-99131-37, Lot #: 332**

Date of Last Analysis: 12/15/00

Expiration Date: 12/15/01

Storage Conditions: < -10 °C

Re-assessment Date: 12/15/01

[1]Purity = 100% - (Total Metal impurities, 0.006% + Total NMR impurities, 0.34% + Total LC/MS impurities, 4.49%)

Total impurity from all tests = 4.84%
Purity = 100% - 4.84% = 95.2%

[2] TFA Trifluoroacetic acid
HFBA Heptafluorobutyric acid
NFPA Nonafluoropentanoic acid
PFPA Pentafluoropropanoic acid

[3]Theoretical value calculations based on the empirical formula, $C_8F_{15}O_2^{(-)}NH_4^{(+)}$ (MW=431.1)

LC/MS Purity Profile:

| Peak # | Retention Time (min) | Mass(s) | Identity | Area | % Area |
|---|---|---|---|---|---|
| 1 | 12.140 | 269 | $C_6$ | 167596 | 0.73 |
| 2 | 13.504 | 331, 319 | $C_7$ homologue/$F_{13}$ | 860991 | 3.76 |
| 3 | 14.099 | 369 | PFOA | 21861700 | - |
| Total | - | - | - | 22890287 | 4.49 |

This work was conducted under EPA Good Laboratory Practice Standards (40 CFR 160).

Prepared By: David S. Bell 01/08/01
Scientist, Centre Analytical Laboratories Date

Reviewed By: John M Flaherty 1/9/01
John Flaherty Date
Laboratory Manager, Centre Analytical Laboratories

# APPENDIX I

# ANALYTICAL REPORT

3M Medical Department Study: T-6889.6
Analytical Report: FACT TOX-164
LIMS E00-2738

### *Study Title*

Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perfluorooctanoate (APFO/PFOA) in Rats 418-020

### *Analytical Laboratory Report Title*

Determination of the Presence and Concentration of PFOA Fluorochemical in Rat Sera Samples

### *Data Requirement*

**January 7, 2002**

### *Author*

3M Environmental Laboratory

### *Study Completion Date*

At signing

### *Performing Laboratories*

**Sera Analyses**

3M Environmental Laboratory
Building 2-3E-09, 935 Bush Avenue
St. Paul, MN 55106

**Sera Extractions**

Pace Analytical Services, Inc.—Tier2 Facility
1700 Elm Street SE, Suite 100
Minneapolis, MN 55414

### *Project Identification*

3M Medical Department Study: T-6889.6
Argus In-Life Study: 418-020
Analytical Report: FACT TOX-164
3M LIMS No. E00-2783

### *Total Number of Pages*

**110**

3M Medical Department Study: T-6889.6
Analytical Report: FACT TOX-164
LIMS E00-2738

This page has been reserved for specific country requirements.

3M Medical Department Study: T-6889.6
Analytical Report: FACT TOX-164
LIMS E00-2738

## GLP Compliance Statement

Analytical Laboratory Report Title: Determination of the Presence and Concentration of PFOA Fluorochemical in Rat Sera Samples

Study Identification Numbers: T-6889.6, FACT TOX-164, LIMS E00-2738

This study was conducted in compliance with United States Environmental Protection Agency (EPA) Good Laboratory Practice (GLP) Standards 40 CFR Part 792, with the exceptions in the bulleted list below.

Exceptions to GLP compliance:

- There were two study directors in this study. This study was designed as two separate studies. The in-life phase (Argus #418-020) was considered to end at the generation and shipment of specimens. The analytical study (3M FACT-TCX-164) was considered to start at the receipt of these specimens for analysis. This resulted in having two separate study directors, one for each phase of the same study. However, since the technical performance of each phase was entirely separate, no effect is expected from this exception.
- Dose confirmation and stability samples were not analyzed according to the GLPs.
- The purity and stability of the surrogate THPFOS standard is not included in this report, it is not known at this time.

John Butenhoff, Ph.D., *Study Director* — January 7, 2002 — Date

David Sanders, Ph.D., *Sponsor Representative* — 1/7/02 — Date

Lisa Clemen, *Principal Analytical Investigator* — 01/04/02 — Date

William Reagen, Ph.D., *Laboratory Management* — 01/04/02 — Date



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Analytical Report: FACT TOX-164
LIMS E00-2738

## GLP Study—Quality Assurance Statement

Analytical Laboratory Report Title: Determination of the Presence and Concentration, of PFOA Fluorochemical in Rat Sera Samples

Study Identification Numbers: T-6889.6, FACT TOX-164, LIMS E00-2738

This study has been inspected by the 3M Environmental Laboratory Quality Assurance Unit (QAU) as indicated in the following table. The findings were reported to the study director and laboratory management.

| Inspection Dates | Phase | Date Reported to | |
|---|---|---|---|
| | | Management | Study Director |
| 5/30/01 | Protocol | 05/30/01 | 05/30/01 |
| 6/27/01 | Analysis | 06/27/01 | 06/27/01 |
| 6/26/01 | Sample Dilutions | 06/26/01 | 06/26/01 |
| 09/25/01-09/28/01 and 10/01/01-10/02/01 | Data | 10/03/01 | 10/03/01 |
| 11/07/01-11/08/01 | Draft report | 11/09/01 | 11/09/01 |

Tanya K Rude — 1/7/02

*QAU Representative* — Date



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## Study Personnel and Contributors

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*Contract lab professional service employees

**Location of Archives**

All original raw data, protocol, and analytical report have been archived at the 3M Environmental Laboratory. The test substance and analytical reference standard reserve samples, as well as the specimens pertaining to the analytical phase of this study are archived at the 3M Environmental Laboratory.

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## Introduction and Purpose

The purpose of the study is to determine the presence and concentration of PFOA fluorochemical in rat sera samples taken from the 3M study "Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perfluorooctanoate (APFO/PFOA) in Rats." The sera samples are the product of the in-life study completed by Argus Research Laboratories under study number 418-020 (T-6889.6). Analyses of sera samples were completed by the 3M Environmental Laboratory under study number FACT-TOX-164 (E00-2738), and the results of these analyses are presented in this report. The analytical portion of this study was initiated on 07 June, 2001.

## Specimen Receipt and Maintenance

The 3M Environmental Laboratory received dosage solution/suspension specimens collected at the end of the *in-life* study #418-020 on 14 November, 2000, and sera specimens collected on 18 April 2001 from Argus Research Laboratories. All dosage solution/suspension specimens were received cold in good condition on ice packs while all sera/liver specimens were received frozen in good condition on dry ice. All specimens were immediately transferred to storage at -20°C ± 10°C. Specimens that were extracted at Pace Tier2 were shipped frozen on dry ice.

**Table 1. Specimens received from Argus Research Laboratory Study (418-020) on 14 November, 2000**

| Specimens | Timepoint | Total # |
|---|---|---|
| Dosage Solution/Suspension | Day 0 Stability | 5 |
| | Day 10 Stability | 5 |
| | Concentration | 5 |

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**Table 2. Specimens received from Argus Research Laboratory Study (418-020) on 18 April, 2001**

| Specimens | Gender | Group | Total # |
|---|---|---|---|
| Serum and Liver | Female | I | 26 |
| | | II | 26 |
| | | III | 29 |
| | | IV | 29 |
| | | V | 28 |
| | Male | I | 30 |
| | | II | 30 |
| | | III | 30 |
| | | IV | 30 |
| | | V | 29 |

**Table 3. Specimens received from Argus Research Laboratory Study (418-020) on 13 July, 2001**

| Specimens | Timepoint | Total # |
|---|---|---|
| Dosage Solution/Suspension | Concentration | 5 |

**Table 4. Specimens received from Argus Research Laboratory Study (418-020) on 09 August, 2001**

| Specimens | Gender | Group | Total # |
|---|---|---|---|
| Serum and Liver | Female | I | 28 |
| | | II | 28 |
| | | III | 27/28 |
| | | IV | 28 |
| | | V | 29 |
| | Male | I | 30 |
| | | II | 29 |
| | | III | 30 |
| | | IV | 30 |
| | | V | 29 |

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Control matrices used in sera analyses performed during FACT-TOX-164 were obtained from commercial sources and are presented in Appendix A. Samples analyzed at the 3M Environmental Laboratory will be stored and maintained at the laboratory according to GLP requirements.

## Chemical Characterization of the Reference Substance

**Ammonium perfluorooctanoate**
CAS Number: 3825-26-1

Chemical Formula: $C_7F_{15}COO^-NH_4^+$ Molecular Weight: 430.9

Chemical characterization information on the reference substance ammonium perfluorooctanoate used in this study is presented in tabular form below.

**Table 5. Characterization of the Analytical Reference Substance in Study FACT TOX-164**

| Location | 3M Lab | |
|---|---|---|
| **Substance** | **PFOA TCR-99030-030** | **THPFOS (Surrogate Standard) TCR-00017-055** |
| **Source** | NA | SynQuest Laboratory |
| **Expiration Date** | 10/31/2006 | NA |
| **Storage Conditions** | -20°C ± 10°C | -20°C ± 10°C |
| **Chemical Lot Number** | 332 | Q75-91 |
| **Physical Description** | White powder | White powder |
| **Purity** | 95.0%* | NA |

NA—Not available
*See Certificate of Analysis from Centre Analytical Laboratories in Appendix G.

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## Sample Preparation and Analysis

### Dose Confirmation and Stability Analyses

Dose confirmation and stability analyses were performed on test substance dose samples (concentration, Day 0 Stability, and Day 10 Stability) collected on 10 November 2000 during the in-life phase of the study: the results are presented in Appendix D. Dose confirmation and stability samples were not analyzed according to the GLPs (analyses occurred prior to study initiation).

Dose confirmation and stability extractions were performed on 17 November, 2000, 27 November, 2000, and one re-extraction performed on 17 January, 2001 by diluting these samples with Milli-Q water, then extracting the samples using the ion pair procedure, ETS-8-4.1. For one dose solution concentration sample, a matrix spike was prepared (approximately 100 ng/mL) by diluting the concentraion sample then spiking the diluted solution. In all cases, samples were analyzed versus an unextracted curve using HPLC-ES/MS/MS. The instrumental parameters and analytical conditions described in ETS-8-5.1 were used for dose solution analyses. Detailed descriptions of the methods used are located in Appendix C.

### Sera Analyses

As per the study protocol, only serum samples from the P Generation Group I, Group IV, and Group V were analyzed in this phase study (See Table 6 for more information). An equal number of male and female rat sera samples were randomly selected for analysis.

Sera samples were extracted beginning on 14 June, 2001 using an ion pairing reagent and methyl-*tert*-butyl ether (MtBE). Sample extracts were analyzed using high-performance liquid chromatography-electrospray/tandem mass spectrometry (HPLC-ESMSMS) in the multiple reaction mode versus an extracted sera curve. PFOA levels were quantitated by external calibration.

**Table 6. P Generation Rat Samples Analyzed in Study FACT-TOX-164**

| Dosage Group | Gender | Total # |
|---|---|---|
| Group I | Male | 3 |
| | Female | 3 |
| Group IV | Male | 10 |
| | Female | 10 |
| Group V | Male | 10 |
| | Female | 10 |

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## Method Summaries

Following is a brief description of the methods used during this analytical study by the 3M Environmental Laboratory. Detailed descriptions of the methods used in this study are located in Appendix C.

### 3M Environmental Laboratory

***PREPARATORY METHOD***

- **ETS-8-4.1,** "Extraction of Potassium Perfluorooctanesulfonate or Other Fluorochemical Compounds from Serum for Analysis using HPLC-Electrospray/Mass Spectrometry"
- **ETS-8-4.2,** "Extraction of Fluorochemical Compounds from Serum for Analysis using HPLC-Electrospray/Mass Spectrometry"

  Analytical samples were extracted using an ion-pairing extraction procedure. An ion-pairing reagent was added to a laboratory sample and the analyte ion pair was partitioned into methyl-*tert*-butyl-ether (MtBE). The MtBE phase was removed and put into a nitrogen evaporator until dry. Each extracted laboratory sample was reconstituted in 1.0 mL of methanol and filtered using a 3 mL plastic syringe attached to a 0.2 µm nylon filter into glass autovials.

***ANALYTICAL METHOD***

- **ETS-8-5.1,** "Analysis of Potassium Perfluorooctanesulfonate or Other Fluorochemicals in Serum Extracts Using HPLC-Electrospray/Mass Spectrometry"
- **ETS-8-5.2,** "Analysis of Potassium Perfluorooctanesulfonate or Other Fluorochemicals in Serum Extracts Using HPLC-Electrospray/Mass Spectrometry"

  Analyses were performed by monitoring one or more product ions selected from a single primary ion characteristic of a particular fluorochemical using HPLC/ES/MS/MS. For example, molecular ion 413, selected as the primary ion for PFOA ($C_7F_{15}COO^-$) analysis, was fragmented further to produce ion 169 ($C_3F_7^-$). The characteristic ion 169 was monitored for quantitative analysis.

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***ANALYTICAL EQUIPMENT***

The following is representative of the settings used during the analytical phase of this study.

**Liquid Chromatograph:** Hewlett-Packard® Series 1100 Liquid Chromatograph system
Analytical column: Keystone® Betasil™ $C_{18}$ 2x50 mm (5 µm)
Column temperature: 30°C
Mobile phase components:
Component A: 2mM ammonium acetate
Component B: methanol
Flow rate: 300 µL/min
Injection volume: 10 µL
Solvent Gradient: 8.0 minutes

| *Time (minutes)* | *%B* |
|---|---|
| 0.0 | 10% |
| 1.0 | 10% |
| 5.5 | 95% |
| 7.5 | 95% |
| 8.0 | 10% |

**Mass Spectrometer:** Micromass® API/Mass Spectrometer Quattro II™ Triple Quadrupole system
Software: Mass Lynx™ 3.4
Cone Voltage: 15–60 V
Collision Gas Energy: 20–50 eV
Mode: Electrospray Negative
Source Block Temperature: 150°C ±10°C
Electrode: Z-spray
Analysis Type: Multiple Reaction Monitoring (MRM)

**Table 7. Target Ions Monitored in 3M Laboratory Analyses**

| Target Analyte | Primary Ion (AMU) | Product Ion (AMU) |
|---|---|---|
| PFOA | 413.0 | 169.0 |
| THPFOS | 427.0 | 80.0 |



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**Deviations/Amendments**

There were three deviations and one amendment from the original protocol.

Deviations and amendments from the original protocol and methods are included in the Appendix B.

## Data Quality Objectives and Data Integrity

The following data quality objectives (DQOs) were indicated in the protocol for this study:

- **Linearity:** The coefficient of determination ($r^2$) equal to or greater than 0.990 using 1/x weighting.
- **Limits of Quantitation (LOQ):** The LOQ is equal to the lowest acceptable standard in the calibration curve, defined as the lowest standard that is both 2 times the matrix blank and is calculated within ±30% of the expected concentration.
- **Acceptable Accuracy:** Quality control samples are required to meet ±25% accuracy, provided they are quantitated within the selected calibration range.
- **Confirmatory Methods:** If a confirmatory method is used, an amendment to the protocol will be written.
- **Demonstration of Specificity:** PFOA identification will be substantiated by chromatographic retention time (approximately 7 minutes), by the characteristic primary ion (413) and the characteristic product ion (169).

## Data Summary, Analyses, and Results

Data quality objectives for the analytical phase of this study outlined above and in the 3M Environmental Laboratory protocol for FACT TOX-164 (see Appendix B) were met with the exceptions noted in this report.

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**Summary of Quality Control Analyses Results**

- **Linearity:** The coefficient of determination ($r^2$) of the standard curve was ≥0.990.
- **Calibration Standards:** Quantitation of the target analytes was based on linear regression analysis, 1/x weighted of one extracted matrix curve. High or low points on the curve may have been deactivated to provide a better linear fit over the curve range most appropriate to the data. Low curve points with peak areas less than two times that of the extraction blanks were deactivated to disqualify a data range that may have been significantly affected by background levels of the analyte. Occasionally, a single mid-range curve point that was an obvious outlier may have been deactivated. Quantitation of each analyte was based on the response of one specific product ion using the multiple response-monitoring mode of the instrument (see Appendix C, Analytical Methods).
- **Limits of Quantitation (LOQ):** The LOQ is equal to the lowest acceptable standard in the calibration curve (defined as a standard within ±30% of the theoretical value), and is at least two times the analyte peak area detected in the extraction blanks. (see Table # 8 below).

**Table 8. Determinations of the LOQ in the Analyses of Rat Sera Extracts**

| Matrix | Analyte | Method LOQ |
|---|---|---|
| Sera | PFOA | 5.28 ng/mL |
| Dose Solution | PFOA | 10.0 ng/mL |

- **Blanks:** All blanks were below the lower limit of quantitation for the compounds of interest.
- **Accuracy:** Accuracy was determined by analysis of CCVs and was reproducible to within 25%.
- **Matrix Spikes:** Although matrix spikes were not a quality control component of this study, because the extracted matrix curves were prepared in the same matrix as the samples (rat serum); two matrix spike tests were performed. The first test was performed prior to the start of sample extraction/analysis to determine extraction efficiency while the second test was performed after sample extraction/analysis was complete to determine extraction efficiency and recovery.

  The first and second tests showed that the extraction efficiency versus unextracted curves was within ±35%.

  The second test showed that matrix spike recoveries were within ±25% of the theoretical concentration versus extracted matrix curves. (see Table # 9 below).

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**Table 9. Matrix Spike Recoveries in the Analyses of Rat Sera Extracts**

| | Concentration | Recovery versus an Unextracted Curve | Recovery versus an Extracted Matrix Curve |
|---|---|---|---|
| Prior to Sample Analyses | 25 ng/mL | 64% | NA |
| | 500 ng/mL | 67% | NA |
| After Sample Analyses | 50 ng/mL | 96% | 108% |
| | 1500 ng/mL | 87% | 86% |
| | 50000 ng/mL | 75% | 89% |

- **Spike Recoveries:** Spike recoveries of ±25% of expected values were achieved for all continuing calibration verifications spiked in the control matrix.
- **Surrogates:** The surrogate (THPFOS) was added to all samples and standards. THPFOS was not used for quantitation, but was used to monitor for gross instrument failure. The surrogate response of each analytical run was verified to determine that it did not vary more than ±50% from the mean within each analytical run. Extracts which were diluted 1:50 or 1:1000 showed surrogate deviations lower than 50%. Since these were consistently low, these outliers will not affect the outcome of this study.

**Statement of Data Quality**

It is not possible to verify true recovery of endogenous analyte from tissues without radio-labeled reference material. The only measurements of accuracy available at this time, calibration curve verification recoveries and matrix spike recoveries, indicate that these data are quantitative to 25% or greater.

**Summary of Sample Results**

PFOA results (those obtained using lot # 332) have been corrected for purity of the analytical reference material.

- **Dose Confirmation and Stability Analyses:** PFOA in the Day 0, Day 10, and concentration samples were considered to be stable for at least 2 months. Initial analysis on 11/27/00 and the last analysis on 01/23/01 showed a 12% drop in recovery, which is not considered to be significant.
- **Samples from Control Animals:** Low levels of PFOA were detected in the male sera of the control animals.
- **Samples from Dosed Animals:** In general, PFOA levels found in female sera of the test animals increased from dose group 4 to group 5. PFOA levels found in male sera remained the same between dose group 4 and 5. Significant differences between male and female PFOA levels were observed in these data. Detailed sample data tables are presented in Appendices D and E.

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## Statistical Methods and Calculations

Statistical methods were limited to the calculation of means and standard deviations. See Appendix F for example calculations used to generate the serum sample data in FACT TOX-164.

## Statement of Conclusion

Under the conditions of the present studies, the fluorochemical PFOA was observed in the sera of all rats dosed with the test substance during the in-life phase of the study.

## References

None

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# Appendix A: Chemical Characterization, and Control Matrices

**Table 10. Characterization of the Control Matrices Used for Sera Analyses in Study FACT-TOX-164**

| Control Matrix | Rat Serum TN-A-4516 |
|---|---|
| Source | Sigma-Aldrich |
| Expiration Date | 02/14/06 |
| Storage Conditions | Frozen -20°C |
| Chemical Lot # | 019H89291 |
| Physical Description | Rat Serum |

**Table 11. Characterization of Test Substance in Study FACT-TOX-164**

| | Test Substance |
|---|---|
| Chemical Name | Ammonium Perfluorooctanoate APFO/PFOA TCR-99030-030 |
| Source | NA |
| Expiration Date | 10/31/2006 |
| Storage Conditions | -20°C ± 10°C |
| Chemical Lot # | 332 |
| Physical Description | White powder |
| Purity | 95.0%* |

NA—Not available
*See the Certificate of Analysis from Centre Analytical Laboratories in Appendix G.



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## Appendix B: Protocol, Amendments, and Deviation(s)



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***Phase Title***

Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perfluorooctanoate (APFO/PFOA) in Rats

**PHASE PROTOCOL**

Performing Laboratories

3M Environmental Technology & Safety Services
3M Environmental Laboratory
935 Bush Avenue
St. Paul, MN 55106

Pace Analytical Services, Inc.
1700 Elm Street SE, Suite 100
Minneapolis, MN 55414

***Laboratory Project Identification***

FACT-TOX Number TOX-164
3M Toxicology Study Number T-6889.6
Argus In-life Study Number 418-020
LIMS E00-2738

## Study Identification

Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perfluorooctanoate (APFO/PFOA) in Rats

| | |
|---|---|
| ***Sponsor*** | 3M Corporate Toxicology<br>3M Medical Department<br>Building 220-2E-02<br>St. Paul, MN 55144 |
| ***Sponsor Representative*** | David Sanders, Ph.D.<br>3M Corporate Toxicology<br>3M Medical Department<br>Building 220-2E-02<br>St. Paul, MN 55144<br>Telephone: (651) 733-5226 |
| ***Study Director*** | John Butenhoff, Ph.D.<br>3M Corporate Toxicology<br>3M Medical Department<br>Building 220-2E-02<br>St. Paul, MN 55144<br>Telephone: (651) 737-1962 |
| ***Phase Locations*** | |
| *Principal Analytical Investigator (PAI)* | Lisa Clemen |
| *Analytical Testing Laboratories* | 3M Environmental Laboratory<br>Building 2-3E-09<br>935 Bush Avenue<br>St. Paul, MN 55106<br>Telephone: (651) 778-6176 |
| | Pace Analytical Services, Inc.<br>1700 Elm Street SE, Suite 100<br>Minneapolis, MN 55414 |
| ***Proposed Phase Timetable*** | |
| *Analyses Start Date* | May 28, 2001 |
| *Analyses Termination Date* | November 30, 2001 |

## 1. STUDY

Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perfluorooctanoate (APFO/PFOA) in Rats

## 2. PURPOSE

The analytical phase of this study is designed to evaluate levels of PFOA in sera specimens of F0 generation male and female rats exposed and F1 generation rat pups potentially exposed to APFO in Argus In-life Study 418-020. Sera samples will be extracted at Pace Analytical Services Inc. Tier II facility. Sera samples will be analyzed at the 3M Environmental Laboratory. Data quality objectives for this study are indicated in section 11.

## 3. REGULATORY COMPLIANCE

This study will be conducted in accordance the United States Environmental Protection Agency Good Laboratory Practice Standards: Final Rule, 40 CFR Part 160/Part 792.

## 4. QUALITY ASSURANCE

The 3M Environmental Laboratory Quality Assurance Unit will audit the study conduct, raw data, and final report to determine compliance with Good Laboratory Practice regulations, this protocol, and 3M Environmental Laboratory Standard Operating Procedures.

## 5. REFERENCE SUBSTANCE FOR FACT-TOX-164

Ammonium Perfluorooctanoate (APFO/PFOA), $C_7F_{15}COO^-NH_4^+$, CAS 3825-26-1

The target analyte is perfluorooctanoate (PFOA), $C_7F_{15}COO^-$.

## 6. TEST SUBSTANCE

Ammonium Perfluorooctanoate (APFO/PFOA), $C_7F_{15}COO^-NH_4^+$, CAS 3825-26-1

## 7. TEST SYSTEM

Five dose groups (30/sex/group for a total of 300) of male and female rats (P Generation) were given the test substance by oral (gavage) route. After cohabitation of the P Generation, five groups of male and female rats (30/sex/group for a total of 300) will be selected from F1 Generation pups for continued evaluation. F1 Generation rats will be given the same dosage level of the test substance as their respective P Generation sires and dams. At scheduled sacrifice (after completion of the cohabitation period for males and day 22 postpartum for females), blood and liver samples were collected and shipped to 3M Environmental Laboratory.

**Number of Specimens per Dosage group and Dosage Levels**

| Dosage Group | Number of Rats per Sex | Dosage (mg/kg/day) | Concentration (mg/mL) |
|---|---|---|---|
| I | 30 | 0 | 0 |
| II | 30 | 1 | 0.2 |
| III | 30 | 3 | 0.6 |
| IV | 30 | 10 | 2 |
| V | 30 | 30 | 6 |

For this phase study, 40—100 sera samples from Group IV (10 mg/kg/day) and Group V (30 mg/kg/day) from the P Generation only will be analyzed. An equal number of male and female samples will be randomly selected from the two dose groups. Modifications to the number of samples analyzed may be implemented at the discretion of the PAI and the Study Director.

## 8. *SPECIMEN RECEIPT*

Sera specimens were received from Argus Research Laboratories, Inc. at the end of the in-life phase on April 18, 2001. Sera specimens were shipped by overnight courier and were received frozen on dry ice. Specimens were identified with sample numbers (lab request numbers or numbers assigned by Argus Research Laboratories, Inc.) upon receipt, registered with the 3M Environmental Laboratory and transferred to a freezer for storage. All specimens sent to the 3M Environmental Laboratory were received and tracked according to the Sample Tracking System Standard Operating Procedure. Details of specimen inspection for damage, receipt, storage, identification, chain of custody, protocols and data will be presented in the phase report.

## 9. *PREPARATORY METHODS*

ETS-8-4, "Extraction of Fluorochemical Compounds from Serum for Analysis using HPLC-Electrospray/Mass Spectrometry"

Analytical samples are extracted using an ion-pairing extraction procedure. An ion-pairing reagent is added to a laboratory sample and the analyte ion pair is partitioned into methyl-*tert*-butyl-ether (MtBE). The MtBE extract is then removed and put onto a nitrogen evaporator until dry. Each extracted laboratory sample is reconstituted in 1.0 mL of methanol and filtered through a 3 $cm^3$ plastic syringe attached to a 0.2 µm nylon filter into glass autovials.

## 10. *ANALYTICAL METHODS*

ETS-8-5, "Analysis of Potassium Perfluorooctanesulfonate or other Fluorochemicals in Serum Extracts using HPLC-Electrospray/Mass Spectrometry"

Analysis is performed by monitoring one or more product ions selected from a single primary ion characteristic of a particular fluorochemical using HPLC-ESMSMS. For example, molecular ion 413, selected as the primary ion for PFOA ($C_7F_{15}COO^-$) analysis, is fragmented further to produce ion 169 ($C_3F_7^-$). The characteristic ion 169 is monitored for quantitative analysis.

Minor modifications to the preparatory and analytical methods may be implemented at the discretion of the PAI.

## 11. *Data Quality Objectives*

### *11.1 Linearity*

The coefficient of determination ($r^2$) of the standard curve must be equal to or greater than 0.990 using 1/x weighting.

### *11.2 Limits of Quantitation (LOQ)*

The LOQ will be equal to the lowest acceptable standard in the calibration curve, defined as the lowest standard that is both 2 times the matrix blank and is calculated within ± 30% of the expected concentration.

### *11.3 Acceptable Accuracy*

Quality control samples are required to meet ± 25% accuracy, provided they are quantitated within the selected calibration range.

### *11.4 Use of Confirmatory Methods*

If a confirmatory method is used, an amendment to this protocol will be written.

### *11.5 Demonstration of Specificity, etc.*

PFOA identification will be substantiated by chromatographic retention time (approximately 7 minutes), by the characteristic primary ion (413) and the characteristic product ion (169).

Minor modifications to the Data Quality Objectives may be implemented at the discretion of the PAI.

## 12. *Sub-Contracted Analysis*

Pace Analytical Services, Inc. (Tier II Facility) will be performing the extraction of serum specimens for analyses. All extracted samples will be shipped to the 3M Environmental Laboratory for analysis. Pace Analytical Services, Inc. will follow all applicable 3M Environmental Laboratory Standard Operating Procedures and the following Pace Analytical Inc. Standard Operating Procedures.

PSS-Admin-01 Quality System
PSS-Admin-04 Laboratory Facilities
PSS-Admin-06 Training Record Files Maintained by QAU
PSS-ARC-02 Disposition of Archive Materials

| | |
|---|---|
| PSS-ARC-04 | Archiving Data, Specimen and Logbooks |
| PSS-DC-05 | Lab Notebooks, Logbooks, and Phone Logs |
| PSS-DM-03 | Statistical Evaluation of Data |
| PSS-OPS-01 | Use and Maintenance of Ultra-Turrax T25 Homogenizer |
| PSS-OPS-02 | Raw Data |
| PSS-OPS-03 | Hazardous Waste Disposal |
| PSS-OPS-04 | Use and Maintenance of N-Evap Analytical Evaporator |
| PSS-OPS-05 | Use of Compressed Gases in the Laboratory |
| PSS-OPS-06 | Use and Maintenance of NANOpure II Water Purification System |
| PSS-OPS-07 | Cleaning Non-disposable Volumetric Pipettes |
| PSS-OPS-08 | Laboratory Calculations |
| PSS-OPS-09 | Deviations from Established Procedures |
| PSS-OPS-10 | Analytical Definitions |
| PSS-OPS-11 | Use and Calibration of a Bottle-Top Dispenser |
| PSS-OPS-13 | Use and Maintenance of Lab Refrigerators, Freezers, and Ovens |
| PSS-OPS-14 | Use and Calibration of Syringes with a Hamilton Chaney Adapter |
| PSS-OPS-15 | Glassware Cleaning |
| PSS-OPS-16 | Use and Maintenance of the Fisher Scientific Isotemp Freezer |
| PSS-OPS-17 | Use and Maintenance of Ultrasonic Water Baths (Sonicators) |
| PSS-OPS-18 | Use and Maintenance of Vortex Shakers |
| PSS-OPS-24 | Use and Maintenance of a Desiccator |
| PSS-OPS-31 | Use and Maintenance of Shakers |
| PSS-OPS-32 | Operation, Maintenance and Calibration of Laboratory |
| PSS-OPS-37 | Operation, Maintenance, and Calibration of pH Meters and pH Electrodes |
| PSS-MC-01 | Purchasing of Laboratory Supplies |
| PSS-MC-02 | Receipt of Laboratory Supplies |
| PSS-MTR-01 | Calibration of Certified Weight Set |
| PSS-MTR-02 | Calibration of Certified Thermometers/Thermocouples |
| PSS-MTR-05 | Calibration of Eppendorf Pipettes |
| PSS-MTR-06 | Verification of Calibration of the Eppendorf Pipettor |
| PSS-MTR-07 | New Equipment Qualification (IQ, PQ, OQ) |
| PSS-MTR-08 | Verification of Calibration and Use of Analytical Balances |
| PSS-MTR-09 | Use and Maintenance of Fisher Scientific Electronic Temperature Monitoring Devices |
| PSS-Safety-01 | General Laboratory Safety |
| PSS-Safety-02 | Use and Maintenance of Biological Safety Cabinets |
| PSS-Safety-04 | Emergency Evacuation Procedures |
| PSS-Safety-05 | Use and Maintenance of Laboratory Fume Hoods |
| PSS-TS-01 | Training Procedures |

## 13. *STATISTICAL ANALYSIS*

Statistical methods will be limited to the calculation of means and standard deviations. Examples of the calculations used in the analyses will be included in the phase report.

## 14. REPORT

A report of the analyte results will be prepared by 3M Environmental Laboratory. The report will include, but not be limited to, the following, when applicable:

**14.1** Name and address of the facility performing the phase.

**14.2** Dates upon which the phase was initiated and completed.

**14.3** A statement of compliance by the PAI addressing any exceptions to Good Laboratory Practice Standards.

**14.4** Objectives and procedures as stated in the approved phase protocol, including any amendments to the original phase protocol.

**14.5** Identity, purity, stability and the solubility of the reference standard under the conditions of use.

**14.6** A description of the methods used to conduct the test(s).

**14.7** A description of the specimens.

**14.8** A description of any circumstances that may have affected the quality or the integrity of the data.

**14.9** The name of the PAI and the names of other scientists, professionals, and supervisory personnel involved in the phase.

**14.10** A description of the transformations, calculations, or operations performed on the data, a summary and analysis of the analytical chemistry data, and a statement of the conclusions drawn from the analyses.

**14.11** Statistical methods used to evaluate the data, if applicable.

**14.12** The signed and dated reports of each of the individual scientists or other professionals involved in the phase, if applicable.

**14.13** The location where raw data and the phase report are to be stored.

**14.14** A statement prepared by the Quality Assurance Unit listing the dates that study inspections and audits were made and the dates of any findings reported to the Study Director and Management.

**14.15** If it is necessary to make corrections or additions to a final report after it has been accepted, the changes will be made in the form of an amendment issued by the Study Director. The amendment will clearly identify the part of the final report that is being amended, the reasons for the amendment, and will be signed by the Study Director.

## 15. LOCATION OF RAW DATA, RECORDS, AND FINAL REPORT

Original data or copies thereof, will be available at 3M Environmental Laboratory to facilitate audits of the study during its progress and before acceptance of the phase report. When the phase report is completed, all original paper data, including those items listed below will be retained in the archives of 3M Environmental Laboratory. All corresponding training records, calibration records, instrument maintenance logs, standard operating procedures, equipment procedures, and methods will be retained in the archives of the 3M Environmental Laboratory.

**15.1** The following raw data and records will be retained in the study folder in the archives according to 3M Environmental Laboratory Standard Operating Procedures.

**15.1.1** Approved protocol and amendments

**15.1.2** Study correspondence

**15.1.3** Shipping records

**15.1.4** Raw data

**15.1.5** Approved final report (original signed copy)

**15.1.6** Electronic copies of data

**15.2** The following supporting records will be retained separately from the study folder in the archives according to 3M Environmental Laboratory Standard Operating Procedures:

**15.2.1** Training records

**15.2.2** Calibration records

**15.2.3** Instrument maintenance logs

**15.2.4** Standard Operating Procedures, Equipment Procedures, and Methods

## 16. DATA / SAMPLE RETENTION

All sera specimens remaining after the analytical phase is completed will be sent to and maintained by:

Lisa Clemen
3M Environmental Laboratory
Building 2-3E-09
935 Bush Avenue
St. Paul, MN55106
Telephone: (651) 778-~~6176~~ 5568

RE LAC 01/07/02

## 17. PROTOCOL AMENDMENTS AND DEVIATIONS

Planned changes to the protocol will be in the form of written amendments signed by the Study Director and the Sponsor's Representative. Amendments will be considered as part of the protocol and will be attached to the final protocol. All changes to the protocol will be indicated in the phase report. Any other changes will be in the form of written deviations, signed by the Study Director and filed with the raw data.

## 18. ATTACHMENTS

### 18.1 Attachment A:

Material Safety Data Sheets (MSDS) for Reference Standard

**19. SIGNATURES**

David Sanders 6/11/01

*David Sanders, Ph.D.*, Sponsor Representative — Date

John T. Butenhoff 6/07/01

*John Butenhoff, Ph.D.*, Study Director — Date

Lisa A. Clemen 06/04/01

*Lisa Clemen.*, Principal Analytical Investigator — Date

3M

***Study Title***

Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perfluorooctanoate (APFO/PFOA) in Rats

**PROTOCOL AMENDMENT NO. 1**

***Amendment Date:***

November 17, 2000

***Performing Laboratory***

3M Environmental Technology & Safety Services
3M Environmental Laboratory
935 Bush Avenue
St. Paul, MN 55106

***Laboratory Project Identification***

3M Medical Department Study: T-6889.6
Argus In-Life Study: 418-020
Analytical Report: FACT TOX-164
3M LIMS No. E00-2738

**This amendment modifies the following portion(s) of the protocol:**

***1. PROTOCOL READS:***

Dose confirmation was not discussed in the Environmental Laboratory analytical phase protocol.

***AMEND TO READ:***

2. The dose confirmation and stability samples were prepared and analyzed prior to the start of the analytical phase of this study. These samples were not prepared or analyzed according to the GLPs. Methods ETS-8-4.1 and ETS-8-5.1 were loosely followed. The results will be reported in the final analytical report.

***REASON:***

From the protocol for the Primedica study:

Analyses of Prepared Formulations:

Concentration:

Concentration of the prepared formulations will be verified during the course of this study. Duplicate samples will be taken from each concentration on the first and last days of preparation. One sample of each duplicate set will be shipped for analysis; the remaining samples will be retained as backup samples. Backup samples will be stored under the previously cited conditions and discarded at the Testing Facility upon the request of the Sponsor.

Stability:

Stability of the prepared formulations will be documented during this study. Two sets of duplicate samples (2 mL each) from each concentration will be taken on the first day of preparation. One sample of each duplicate set will be shipped on the day of preparation. These samples will be analyzed at the following time points: as soon after preparation as possible and ten days after the first analysis. The remaining samples will be retained at the Testing Facility as backup samples. Backup samples will be stored under the previously cited conditions and discarded at the Testing Facility upon the request of the Sponsor.

Stability measurements demonstrate that the prepared test article will be stable for ten days. It is best to perform this prior to the analytical phase study initiation to ensure that prepared dosing mixtures will remain stable and thus avoid the cost and potential error of preparing doses each day. Also, no approved/validated methods were in place for dose confirmation analysis.

## Amendment Approval

11/2/01

*David Sanders*, Sponsor Representative — Date

2 NOV, 2001

*John L. Butenhoff, Ph.D.*, Study Director — Date

# Record of Deviation

## I. Identification

Study / Project No. FACT-TOX-164 Argus 418-020 LIMS E00-2738

Deviation Type (Check one) ☐ SOP X Method ☐ Equipment Procedure ☐ Protocol ☐ Other:

Document Number(s): ETS-8-4.2, ETS-8-5.2 Date(s) of occurrence: 06/14/01, 06/15/01

## II. Description:

Required Procedure/process:
Method ETS-8-4.2 does not list matrix spikes as a QC parameter if the curve is prepared in the same matrix as the samples (i.e. rat serum calibration curves and rat serum samples). Method ETS-8-5.2 states five points, at a minimum, are to be used to generate the calibration curve and the curve $r^2$ must be > 0.990.

Actual Procedure/process:
Matrix spikes were prepared (06/14/01) prior to the start of the sample extraction in order to determine extraction efficiency and to determine the endogenous level of target analyte present in the commercially available serum. For this commercially available serum, endogenous levels were below 1.00 ppb for the target analyte. This serum was then used to prepare the extracted matrix calibration curve and continuing calibration verifications for this study.

These sample extracts were analyzed on 06/15/01. For this analysis, not all stated QC criteria were followed. Only four points were used for the calibration curve instead of five points and the $r^2$ value was 0.9831 instead of 0.9900. Since these data are screening quality only and additional matrix spikes will be extracted at the end of the study these data are OK as entered. These sample extracts were not reanalyzed.

## III. Actions Taken:

*(such as amendment issued, SOP revision, etc.)*
This deviation was written.

Recorded By
Lisa A. Clemen Lisa A Clemen

Date
08/10/01
08/10/01

## IV. Impact on Study / Project

No adverse impact on the outcome of this study.

Authorized By *(Study Director / Project Lead)*
John Butenhoff 27 August 2001
D A Sanders 5 Sept 2001

Date

Study Director: John Butenhoff
Sponsor Representative: David Sanders
*3M Environmental Laboratory*
*Form ETS-4-8.0*

**Deviation No.** 1
(assigned by Study Director or Project Lead at the end of study or project)

# Record of Deviation

## I. Identification

Study / Project No. FACT-TOX-164 Argus 418-020 LIMS E00-2738

Deviation Type (Check one): ☐ SOP ☐ Method ☐ Equipment Procedure X Protocol ☐ Other:

Document Number(s): FACT-TOX-164

Date(s) of occurrence: 06/19/01

## II. Description:

Required Procedure/process:
Section 7 states: An equal number of male and female samples will be randomly selected from the two P generation dose groups (group IV – 10 mg/kg/day and group V – 30 mg/kg/day)

Actual Procedure/process:
An equal number of male and female samples were randomly selected from the two P generation dose groups (group IV - 10 mg/kg/day and group V - 30 mg/kg/day.)
In addition, 3 male and 3 female samples were randomly selected from the P generation control group (group 1 - 0 mg/kg/day)

## III. Actions Taken:

*(such as amendment issued, SOP revision, etc.)*
This deviation was written.

Recorded By: Lisa A. Clemen — Lisa A Clemen — Date: 08/10/01 08/10/01

## IV. Impact on Study / Project

These samples' results will add useful information concerning endogenous levels present in the control group. No adverse impact on this study.

Authorized By *(Study Director / Project Lead)* — Date

John Butenhoff 27 August 2001
DA Sanders 5 Sept 2001

Study Director: John Butenhoff
Sponsor Representative: David Sanders

*3M Environmental Laboratory*
*Form ETS-4-8.0*

**Deviation No.** 2
(assigned by Study Director or Project Lead at the end of study or project)

# Record of Deviation

## I. Identification

Study / Project No. FACT-TOX-164 Argus 418-020 LIMS E00-2738

Deviation Type (Check one): SOP / Protocol / X Method / Other: / Equipment Procedure

Document Number(s): ETS-4-1, ETS-8-5.1

Date(s) of occurrence: 01/17/01, 01/23/01

## II. Description:

Required Procedure/process:
Methods state: A matrix spike and matrix spike duplicate will be extracted and analyzed per forty samples, with a minimum of 2 per batch.

Actual Procedure/process:
On the dose confirmation extraction performed 01/17/01 no matrix spike or matrix spike duplicate were prepared and subsequently were not analyzed on 01/23/01.

## III. Actions Taken:

*(such as amendment issued, SOP revision, etc.)*
This deviation was written.

Recorded By
Lisa A. Clemen Lisa A Clemen

Date
10/05/01
10/05/01

## IV. Impact on Study / Project

This omission will not have an adverse impact on this study, other quality control aspects of the analysis were included (blanks, continuing calibration verifications) which met method criteria.

Authorized By *(Study Director / Project Lead)*
John E. Butenhoff 10/4/2001
D A Sanders 10/12/2001

Date

Study Director: John Butenhoff
Sponsor Representative: David Sanders

*3M Environmental Laboratory*
*Form ETS-4-8.0*

**Deviation No.** 3
(assigned by Study Director or Project Lead at the end of study or project)

3M Medical Department Study: T-6889.6
Analytical Report: FACT TOX-164
LIMS E00-2738

## Appendix C: Extraction and Analytical Methods

This appendix includes the following methods:

**ETS-8-4.1**, Extraction of Potassium Perfluorooctanesulfonate or Other Fluorochemical Compounds from Serum for Analysis using HPLC-Electrospray/Mass Spectrometry, (14 pages)

**ETS-8-4.2**, Extraction of Fluorochemical Compounds from Serum for Analysis Using HPLC-Electrospray/Mass Spectrometry, (15 pages)

**ETS-8-5.1**, Analysis of Potassium Perfluorooctanesulfonate or Other Fluorochemicals in Serum Extracts Using HPLC-Electrospray/Mass Spectrometry, (9 pages)

**ETS-8-5.2**, Analysis of Potassium Perfluorooctanesulfonate or Other Fluorochemicals in Serum Extracts Using HPLC-Electrospray/Mass Spectrometry, (11 pages)

# 3M ENVIRONMENTAL LABORATORY

## METHOD

## EXTRACTION OF POTASSIUM PERFLUOROOCTANESULFONATE OR OTHER FLUOROCHEMICAL COMPOUNDS FROM SERUM FOR ANALYSIS USING HPLC-ELECTROSPRAY/MASS SPECTROMETRY

**Method Number:** ETS-8-4.1 **Adoption Date:** 03/01/99

**Revision Date:** 4/27/99

Author: Lisa Clemen, Glenn Langenburg

Approved By:

| | |
|---|---|
| [signature] | 4/27/99 |
| Laboratory Manager | Date |
| [signature] | 4/26/99 |
| Group Leader | Date |
| Lisa A Clemen | 04/26/99 |
| Technical Reviewer | Date |

Exact Copy of Original
RWL 8/28/01
Initial Date

## 1.0 SCOPE AND APPLICATION

1.1 **Scope:** This method is for the extraction of potassium perfluorooctanesulfonate (PFOS) or other fluorochemical compounds from serum.

1.2 **Applicable compounds:** Fluorochemical surfactants or other fluorinated compounds.

1.3 **Matrices:** Rabbit, rat, bovine, monkey, and human serum or other fluids as designated in the validation report.

## 2.0 SUMMARY OF METHOD

2.1 This method describes the procedure for extracting potassium perfluorooctanesulfonate (PFOS) or other fluorochemical surfactants from serum, or other fluids, using an ion pairing reagent and methyl-*tert*-butyl ether (MtBE). In this method, seven fluorochemicals were extracted: PFOS, PFOSA, PFOSAA, EtFOSE-OH, PFOSEA, M556, and surrogate standard (see ***3.0 Definitions***). An ion pairing reagent is added to the sample and the analyte ion pair is partitioned into MtBE. The MtBE extract is removed and put onto a nitrogen evaporator until dry. Each extract is reconstituted in 1.0 mL of methanol, then filtered through a 3 cc plastic syringe attached to a 0.2 µm nylon filter into glass autovials.

2.2 These sample extracts are analyzed following method ETS-8-5.1 or other appropriate methods.

## 3.0 DEFINITIONS

3.1 PFOS: perfluorooctanesulfonate (anion of potassium salt) $C_8F_{17}SO_3^-$

3.2 PFOSA: perfluorooctane sulfonylamide $C_8F_{17}SO_2NH_2$

3.3 PFOSAA: perfluorooctane sulfonylamido (ethyl)acetate $C_8F_{17}SO_2N(CH_2CH_3)CH_2CO_2^-$

3.4 EtFOSE-OH: 2(N-ethylperfluorooctane sulfonamido)-ethyl alcohol $C_8F_{17}SO_2N(CH_2CH_3)CH_2CH_2OH$

3.5 PFOSEA: perfluorooctane sulfonyl ethylamide $C_8F_{17}SO_2N(CH_2CH_3)H$

3.6 M556: $C_8F_{17}SO_2N(H)(CH_2COOH)$

3.7 Surrogate standard: 1H-1H-2H-2H perfluorooctane sulfonic acid

## 4.0 WARNINGS AND CAUTIONS

**4.1 Health and safety warnings**

4.1.1 Use universal precautions, especially laboratory coats, goggles, and gloves when handling animal tissue, which may contain pathogens.

## 5.0 INTERFERENCES

5.1 There are no interferences known at this time.

## 6.0 EQUIPMENT

6.1 The following equipment is used while performing this method. Equivalent equipment is acceptable.

6.1.1 Vortex mixer, VWR, Vortex Genie 2

6.1.2 Centrifuge, Mistral 1000 or IEC

6.1.3 Shaker, Eberbach or VWR

6.1.4 Nitrogen evaporator, Organomation

6.1.5 Balance (± 0.100 g)

## 7.0 Supplies and Materials

7.1 Gloves

7.2 Eppendorf or disposable pipettes

7.3 Nalgene bottles, capable of holding 250 mL and 1 L

7.4 Volumetric flasks, glass, type A

7.5 I-CHEM vials, glass, 40 mL glass

7.6 Centrifuge tubes, polypropylene, 15 mL

7.7 Labels

7.8 Oxford Dispenser – 3.0 to 10.0 mL

7.9 Syringes, capable of measuring 5 µL to 50 µL

7.10 Graduated pipettes

7.11 Syringes, disposable plastic, 3 cc

7.12 Syringe filters, nylon, 0.2 µm, 25 mm

7.13 Timer

7.14 Crimp cap autovials and caps

7.15 Crimpers

Note: Prior to using glassware and bottles, rinse 3 times with methanol and 3 times with Milli-Q™ water. Rinse syringes a minimum of 9 times with methanol, 3 rinses from 3 separate vials.

## 8.0 Reagents and Standards

8.1 Type I reagent grade water, Milli-Q™ or equivalent; all water used in this method should be Milli-Q™ water and may be provided by a Milli-Q TOC Plus™ system

8.2 Sodium hydroxide (NaOH), J.T Baker or equivalent

8.3 Tetrabutylammonium hydrogen sulfate(TBA), Kodak or equivalent

8.4 Sodium carbonate ($Na_2CO_3$), J.T. Baker or equivalent

8.5 Sodium bicarbonate ($NaHCO_3$), J.T. Baker or equivalent

8.6 Methyl-T-Butyl Ether, Omnisolv, glass distilled or HPLC grade

8.7 Methanol, Omnisolv, glass distilled or HPLC grade

8.8 Serum or blood, frozen from supplier

8.9 **Fluorochemical standards**

8.9.1 PFOS (3M Specialty Chemical Division), molecular weight = 538

8.9.2 PFOSA (3M Specialty Chemical Division), molecular weight = 499

8.9.3 PFOSAA (3M Specialty Chemical Division), molecular weight = 585

8.9.4 EtFOSE-OH (3M Specialty Chemical Division), molecular weight = 570

8.9.5 PFOSEA (3M Specialty Chemical Division), molecular weight = 527

8.9.6 M556 (3M Specialty Chemical Division), molecular weight = 557

8.9.7 Surrogate standard: 4-H, perfluorooctane sulfonic acid (1-H,1-H, 2-H, 2-H $C_8F_{13}SO_3H$) molecular weight = 428

8.9.8 Other fluorochemicals, as appropriate

**8.10 Reagent preparation**

NOTE: When preparing larger volumes than listed in reagent, standard, or surrogate preparation, adjust accordingly.

8.10.1 10 N sodium hydroxide (NaOH): Weigh approximately 200 g NaOH. Pour into a 1000 mL beaker containing 500 mL Milli-Q™ water, mix until all solids are dissolved. Store in a 1 L Nalgene bottle.

8.10.2 1 N sodium hydroxide (NaOH): Dilute 10 N NaOH 1:10. Measure 10 mL of 10 N NaOH solution into a 100 mL volumetric flask and dilute to volume using Milli-Q™ water. Store in a 125 mL Nalgene bottle.

8.10.3 0.5 M tetrabutylammonium hydrogen sulfate (TBA): Weigh approximately 169 g of TBA into a 1 L volumetric containing 500 mL Milli-Q™ water. Adjust to pH 10 using approximately 44 to 54 mL of 10 N NaOH (While adding the last mL of NaOH, add slowly because the pH changes abruptly). Dilute to volume with Milli-Q™ water. Store in a 1 L Nalgene bottle.

8.10.3.1 TBA requires a check prior to each use to ensure pH = 10. Adjust as needed using 1 N NaOH solution.

8.10.4 0.25 M sodium carbonate/sodium bicarbonate buffer ($Na_2CO_3/NaHCO_3$): Weigh approximately 26.5 g of sodium carbonate ($Na_2CO_3$) and 21.0 g of sodium bicarbonate ($NaHCO_3$) into a 1 L volumetric flask and bring to volume with Milli-Q™ water. Store in a 1 L Nalgene bottle.

**8.11 Standards preparation**

8.11.1 Prepare PFOS standards for the standard curve.

8.11.2 Prepare other fluorochemical standards, as appropriate. Multicomponent fluorochemical standards are acceptable (for example, one working standard solution containing 1.00 ppm PFOS, 1.02 ppm PFOSA, 0.987 ppm PFOSAA, and 1.10 ppm EtFOSE-OH.)

8.11.3 Weigh approximately 100 mg of PFOS into a 100 mL volumetric flask and record the actual weight.

8.11.4 Bring to volume with methanol for a stock standard of approximately 1000 ppm (µg/mL).

8.11.5 Dilute the stock solution with methanol for a working standard 1 solution of approximately 50 ppm.

8.11.6 Dilute working standard 1 with methanol for a working standard 2 solution of approx. 5.0 ppm.

8.11.7 Dilute working standard 1 with methanol for a working standard 3 solution of approx. 0.50 ppm.

**8.12 Surrogate stock standard preparation**

8.12.1 Weigh approximately 50-60 mg of surrogate standard 1-H,1-H, 2-H, 2-H, $C_8F_{13}SO_3H$ into a 50 mL volumetric flask and record the actual weight.

8.12.2 Bring to volume with methanol for a surrogate stock of approximately 1000-1200 ppm.

8.12.3 Prepare a surrogate working standard. Transfer approximately 1 mL of surrogate stock to a 10 mL volumetric flask and bring to volume with methanol for a working standard of 100 ppm. Record the actual volume transferred.

## 9.0 SAMPLE HANDLING

9.1 All samples are received frozen and must be kept frozen until the extraction is performed.

9.2 Allow samples to thaw to room temperature prior to extraction.

## 10.0 QUALITY CONTROL

**10.1 Solvent Blanks, Method blanks and matrix blanks**

10.1.1 An aliquot of 1.0 mL methanol is used as a solvent blank.

10.1.2 Extract two 1.0 mL aliquots of Milli-Q™ water following this procedure and use as method blanks.

10.1.3 Extract two 1.0 mL aliquots of the serum following this procedure and use as matrix blanks. See 11.1.4.

**10.2 Matrix spikes**

10.2.1 Prepare and analyze matrix spike and matrix spike duplicate samples to determine the accuracy of the extraction.

10.2.2 Prepare each spike using a sample chosen by the analyst, usually the control matrix received with each sample set.

10.2.3 Expected concentrations will fall in the mid-range of the initial calibration curve. Additional spikes may be included and may fall in the low-range of the initial calibration curve.

10.2.4 Prepare one matrix spike and matrix spike duplicate per 40 samples, with a minimum of 2 matrix spikes per batch.

**10.3 Continuing calibration checks**

10.3.1 Prepare continuing calibration check samples to ensure the accuracy of the initial calibration curve.

10.3.2 Prepare, at a minimum, one continuing check per group of 10 samples. For example, if a sample set = 34, four checks are prepared and extracted.

10.3.3 Prepare each continuing calibration check from the same matrix used to prepare the initial curve.

10.3.4 The expected concentrations will fall within the mid-range of the initial calibration curve. Additional spikes may be included that fall in the low-range of the initial calibration curve. This is necessary if the analyst must quantitate using only the low end of the calibration curve (for example, 5 ppb – 100 ppb, rather than
5 ppb – 1000 ppb).

## 11.0 CALIBRATION AND STANDARDIZATION

### 11.1 Prepare matrix calibration standards

11.1.1 Transfer 1 mL of serum to a 15 mL centrifuge tube.

11.1.2 If most sample volumes are less than 1.0 mL, extract standards with matrix volumes equal to the sample volumes. Do not extract less than 0.50 mL of matrix. Record each sample volume on the extraction sheet.

11.1.3 While preparing a total of twenty aliquots in 15 mL centrifuge tubes, mix or shake between aliquots.

11.1.4 Two 1 mL aliquots, or other appropriate volume, serve as matrix blanks. Typically use the standard concentrations and spiking amounts listed in Table 1, at the end of this section, to spike, in duplicate, two standard curves, for a total of eighteen standards, two matrix blanks, and two method blanks.

11.1.5 Refer to validation report **ETS-8-4.0 & ETS-8-5.0-V-1**, which lists the working ranges and the Linear Calibration Range (LCR) for calibration curves.

11.1.6 Use Attachment D as an aid in calculating the concentrations of the working standards. See Section **13.0** to calculate actual concentrations of PFOS in calibration standards.

11.2 To each standard, blank, or continuing check, add appropriate amount of surrogate working standard for the concentration to fall within the calibration curve range 5 ppb - 1000 ppb.

11.3 Extract spiked matrix standards following **12.6-12.16** of this method. Use these standards to establish each initial curve on the mass spectrometer.

| Table 1<br>Approximate spiking amounts for standards and spikes<br>Using 1.0 mL of matrix | | |
|---|---|---|
| Working standard (approx. conc.) | µL | Approx. final conc. of analyte in matrix |
| - | - | Blank |
| 0.500 ppm | 10 | 0.005 ppm |
| 0.500 ppm | 20 | 0.010 ppm |
| 5.00 ppm | 5 | 0.025 ppm |
| 5.00 ppm | 10 | 0.050 ppm |
| 5.00 ppm | 20 | 0.100 ppm |
| 50.0 ppm | 5 | 0.250 ppm |
| 50.0 ppm | 10 | 0.500 ppm |
| 50.0 ppm | 15 | 0.750 ppm |
| 50.0 ppm | 20 | 1.00 ppm |

## 12.0 PROCEDURE

**12.1** Obtain frozen samples and allow to thaw at room temperature or in a lukewarm waterbath.

**12.2** Vortex mix for 15 seconds, then transfer 1.0 mL or other appropriate volume to a 15 mL polypropylene centrifuge tube.

**12.3** Return unused samples to freezer after extraction amounts have been removed.

**12.4** Record the initial volume on the extraction worksheet.

**12.5** Label the tube with the study number, sample ID, date and analyst initials. See attached worksheet for documenting the remaining steps.

**12.6** Spike all samples, including blanks and standards, ready for extraction with surrogate standard as described in **11.2.**

**12.7** Spike each matrix with the appropriate amount of standard as described in **11.1,** or **Table** 1 in that section, for the calibration curve standards. Also prepare matrix spikes and continuing calibration standards.

**12.8** Vortex mix the standard curve samples, matrix spike samples, and continuing calibration samples for 15 seconds.

**12.9** Check to ensure the 0.5 M TBA reagent is at pH 10. If not, adjust accordingly.

**12.10** To each sample, add 1 mL 0.5 M TBA and 2 mL of 0.25M sodium carbonate/sodium bicarbonate buffer.

**12.11** Using an Oxford Dispenser, add 5 mL methyl-*tert*-butyl ether.

**12.12** Cap each sample and put on the shaker at a setting of 300 rpm, for 20 minutes.

**12.13** Centrifuge for 20 to 25 minutes at a setting of 3500 rpm, or until layers are well separated.

12.14 Label a fresh 15 mL centrifuge tube with the same information as in 12.5.

12.15 Remove 4.0 mL of the organic layer to this clean 15 mL centrifuge tube.

12.16 Put each sample on the analytical nitrogen evaporator until dry, approximately 1 to 2 hours.

12.17 Add 1.0 mL of methanol to each centrifuge tube using a graduated pipette.

12.18 Vortex mix for 30 seconds.

12.19 Attach a 0.2 µm nylon mesh filter to a 3 cc syringe and transfer the sample to this syringe. Filter into a 1.5 mL glass autovial or low-volume autovial when necessary.

12.20 Label the autovial with the study number, animal number and gender, sample timepoint, matrix, final solvent, extraction date, and analyst(s) performing the extraction.

12.21 Cap and store extracts at room temperature or at approximately 4 °C until analysis.

12.22 Complete the extraction worksheet, attached to this document, and tape in the study notebook or include in study binder, as appropriate.

## 13.0 Data Analysis and Calculations

### 13.1 Calculations

13.1.1 Calculate actual concentrations of PFOS, or other applicable fluorochemical, in calibration standards using the following equation:

$$\frac{\text{mL of standard} \times \text{concentration of standard (µg/mL)}}{\text{mL of standard} + \text{mL of surrogate standard} + \text{initial matrix volume (mL)}} =$$

Final Concentration (µg/mL) of PFOS in matrix

## 14.0 Method Performance

14.1 The method detection limit (MDL) is analyte and matrix specific. Refer to MDL report for specific MDL and limit of quantitation (LOQ) values (see **Attachments B and C**).

14.2 The following quality control samples are extracted with each batch of samples to evaluate the quality of the extraction and analysis.

14.2.1 Method blanks and matrix blanks.

14.2.2 Matrix spike and matrix spike duplicate samples to determine accuracy and precision of the extraction.

14.2.3 Continuing calibration check samples to determine the continued accuracy of the initial calibration curve.

14.3 Refer to section 14 of ETS-8-5.1 for method performance criteria.

## 15.0 Pollution Prevention and Waste Management

15.1 Sample waste is disposed in biohazard containers, flammable solvent waste is disposed in high BTU containers, and used glass pipette waste is disposed in broken glass containers located in the laboratory.

## 16.0 RECORDS

16.1 Complete the extraction worksheet attached to this method, and tape in the study notebook or include in the 3-ring study binder, as appropriate.

## 17.0 ATTACHMENTS

17.1 Attachment A, Extraction worksheet

17.2 Attachment B, MDL/LOQ values and summary

17.3 Attachment C, Calibration standard concentration worksheet

## 18.0 REFERENCES

18.1 The validation report associated with this method is **ETS-8-4.0 & 5.0-V-1.**

18.2 FACT-M-3.1, "Analysis of Serum or Other Fluid Extracts for Fluorochemicals using HPLC-Electrospray Mass Spectrometry"

## 19.0 AFFECTED DOCUMENTS

19.1 ETS-8-5.1, "Analysis of Serum or Other Fluid Extracts for Fluorochemicals using HPLC-Electrospray Mass Spectrometry"

## 20.0 REVISIONS

| Revision Number | Reason For Revision | Revision Date |
|---|---|---|
| 1 | Section 12.21 Changed to include sample storage at room temperature.<br>Section 12.13 Added the shaker speed.<br>Section 12.17 Final volume is 1.0 mL; not adjusted for initial volumes less than 1.0 mL. | 04/02/99 |

## Extraction Worksheet ETS-8-4.1

| Study #_____ Matrix_____ Box #_____ Wk/Day_____ DateSpiked/Analyst | Surrogate Std approx. ppm actual ppm #_____ | FC-Mix approx. 0.5 pm actual ppm #_____ | FC-Mix approx. 5 ppm actual ppm #_____ | FC-Mix approx. 50 ppm actual ppm #_____ | Comments |
|---|---|---|---|---|---|
| CCV | | | | | |
| MS | | | | | |
| MSD | | | | | |
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|---|---|---|---|
| Blank | Std # | amount = | mL |
| **Serum Extraction Method** | | | **Date & Initials** |
| Vortex 15 sec. | | | |
| Pipette Matrix | Volume | mL | |
| Pipette 1 mL of 0.5 M TBA, pH 10. pH = | | Std. # | |
| Pipette 2 mL of 0.25 $Na_2CO_3$/0.25M $NaHCO_3$ buffer | | Std. # | |
| Dispense 5 mL of methyl-t-butyl ether | | TN-A- | |
| Shake 20 min. | | Shaker speed: | |
| Centrifuge 20-25 min. | | Centrifuge speed: | |
| Remove a 4 mL aliquot of organic layer | | | |
| Put on Nitrogen Evaporator to dryness | | Temperature: | |
| Add methanol | Volume mL | TN-A- | |
| Vortex 30 sec. | | | |
| Filter using a 3cc B-D syringe with a 0.2µm filter into a 1.5 mL autosample vial | | | |

Cont. Cal. Verifications used same matrix as for std curve.

**MDL/LOQ values for rabbit serum**

| Compound | MDL (ppb) | LOQ (ppb) | Linear Calibration Range (LCR) Approximate concentrations to be used for preparing the Standard Calibration Curve |
|---|---|---|---|
| PFOS | 1.74 | 5.55 | 5 ppb - 1000 ppb |
| PFOSA | 1.51 | 4.79 | 5 ppb - 1000 ppb |
| PFOSAA | 3.46 | 20.5 | 5 ppb - 1000 ppb |
| EtFOSE-OH | 11.4 | 36.2 | 5 ppb - 1000 ppb |
| M556 | 6.03 | 19.2 | 5 ppb - 1000 ppb |
| PFOSEA | 5.71 | 18.2 | 5 ppb - 1000 ppb |

MDL/LOQ values in rat, bovine, monkey, and human serum, and monkey plasma were not statistically determined. Two curves in each of these matrices were extracted and analyzed with the rabbit serum curves to determine equivalence. Responses in the rat, bovine, monkey, and human were equivalent to the rabbit responses, therefore, their MDL and LOQ will be the same values as determined in rabbit serum.

Please see LOQ Summary and MDL study in ETS-8-4.0 & 5.0-V-1 for further information.

**Compound: PFOS**

| Rabbit Serum | Prepared range of standards (ppb) (ng/mL) | LCR from curve (ppb) (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.995 - 978 | 24.8 - 978 | 83-108 | 4.67-11.0 |
| Low Curve | 4.94 - 248 | 4.94 - 248 | 85-104 | 5.34-12.0 |
| High curve | 97.8 - 978 | 97.8 – 978 | 85-106 | 4.84-9.80 |
| 1/X | 0.995 - 978 | 4.94 - 978 | 94-111 | 4.60-10.5 |

**Compound: PFOSA**

| Rabbit Serum | Prepared range of standards (ppb) (ng/mL) | LCR from curve (ppb) (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 4.93 - 976 | 88-103 | 5.10-14.7 |
| Low Curve | 4.93 - 97.6 | 4.93 - 97.6 | 87-105 | 9.85-14.7 |
| High curve | 24.8 - 976 | 24.8 - 978 | 93-102 | 5.08-13.9 |
| 1/X | 0.993 - 976 | 4.93 - 976 | 94-103 | 5.10-14.5 |

**Compound: PFOSAA**

| Rabbit Serum | Prepared range of standards (ppb) (ng/mL) | LCR from curve (ppb) (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.991 - 974 | 24.7 - 974 | 81-111 | 4.18-10.6 |
| Low Curve | 4.92 - 247 | 9.74 - 247 | 97-107 | 6.38-21.8 |
| High curve | 49.2 - 974 | 97.4 - 974 | 85-108 | 4.33-12.5 |
| 1/X | 0.991 - 974 | 9.74 - 974 | 95-115 | 4.11-23.2 |

**Compound: EtFOSE-OH**

| Rabbit Serum | Prepared range of standards (ppb) (ng/mL) | LCR from curve (ppb) (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 49.3 - 976 | 77-110 | 11.2-25.5 |
| Low Curve | 4.93 – 97.6 | 9.76 – 97.6 | 97-107 | 14.1-21.3 |
| High curve | 49.3 - 976 | 97.6 - 976 | 90-109 | 11.5-19.6 |
| 1/X | 0.993 - 493 | 9.76 - 976 | 86-111 | 11.1-21.2 |

**Compound: PFOSEA**

| Rabbit Serum | Prepared range of standards (ppb) (ng/mL) | LCR from curve (ppb) (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 24.8 - 976 | 96-106 | 10.1-16.2 |
| Low Curve | 4.93 - 248 | 9.76 - 248 | 91-110 | 11.8-19.5 |
| High curve | 49.3 - 976 | 49.3 - 976 | 86-106 | 10.2-18.2 |
| 1/X | 0.993 - 976 | 9.76 - 976 | 95-117 | 10.1-19.1 |

**Compound: M556**

| Rabbit Serum | Prepared range of standards (ppb) (ng/mL) | LCR from curve (ppb) (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 24.8 - 976 | 88-106 | 4.82-17.9 |
| Low Curve | 4.93 - 97.6 | 9.76 – 97.6 | 100-105 | 5.95-18.2 |
| High curve | 97.6 - 976 | 97.6 - 976 | 81-111 | 5.11-9.74 |
| 1/X | 0.993 - 976 | 9.76 - 976 | 97-110 | 4.77-19.5 |

# Ion Pair Standard Curves – Fluids

**Prep date(s):**
**Analyte(s):**
**Sample matrix:**

**Standard number:**
**Equipment number:**
**Final solvent and TN:**
**Blank fluid/identifier:**

**Method/revision:**
**Target analyte(s):**
**FC mix std approx.** 0.500 ppm:
**FC mix std approx.** 5.00 ppm:
**FC mix std approx.** 50.0 ppm:
**Surrogate std approx.** 100 ppm:

**Actual concentrations of standards in the FC mix**

| PFOS Std conc ug/mL | PFOSA Std conc ug/mL | PFOSAA Std conc ug/mL | EtFOSE Std conc ug/mL | PFOSEA Std conc ug/mL | M556 Std conc ug/mL | All Am't spiked mL | All Final vol mL |
|---|---|---|---|---|---|---|---|
| 0.500 | 0.507 | 0.532 | 0.501 | 0.521 | 0.501 | 0.010 | 1.015 |
| 0.500 | 0.507 | 0.532 | 0.501 | 0.521 | 0.501 | 0.020 | 1.025 |
| 5.00 | 5.07 | 5.32 | 5.01 | 5.21 | 5.01 | 0.005 | 1.010 |
| 5.00 | 5.07 | 5.32 | 5.01 | 5.21 | 5.01 | 0.010 | 1.015 |
| 5.00 | 5.07 | 5.32 | 5.01 | 5.21 | 5.01 | 0.020 | 1.025 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.005 | 1.010 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.010 | 1.015 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.015 | 1.020 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.020 | 1.025 |

**Calculated concentrations of standards in the sample matrix**

| PFOS Final conc ng/mL | PFOSA Final conc ng/mL | PFOSAA Final conc ng/mL | EtFOSE Final conc ng/mL | PFOSEA Final conc ng/mL | M556 Final conc ng/mL | Surrogate Std conc ng/mL | All Am't spiked mL |
|---|---|---|---|---|---|---|---|
| 4.93 | 5.00 | 5.24 | 4.94 | 5.01 | 5.13 | 100 | 0.005 |
| 9.76 | 9.89 | 10.4 | 9.78 | 9.93 | 10.2 | | |
| 24.8 | 25.1 | 26.3 | 24.8 | 25.2 | 25.8 | **Surrogate** | |
| 49.3 | 50.0 | 52.4 | 49.4 | 50.1 | 51.3 | Final conc | |
| 97.6 | 98.9 | 104 | 97.8 | 99.3 | 102 | ng/mL | |
| 248 | 251 | 263 | 248 | 252 | 258 | 500 | |
| 493 | 500 | 524 | 494 | 501 | 513 | | |
| 735 | 746 | 782 | 737 | 749 | 766 | | |
| 976 | 989 | 1038 | 978 | 993 | 1017 | | |

**Validated ranges – approximate concentrations**

| Serum | PFOS | PFOSA | PFOSAA | EtFOSE-OH | PFOSEA | M556 |
|---|---|---|---|---|---|---|
| Rabbit | 5.00-1000 | 5.00-1000 | 5.00-1000 | 5.00-1000 | 5.00-1000 | 5.00-1000 |
| Bovine | Estimates only. Use values for rabbit. | | | | | |
| Rat | Estimates only. Use values for rabbit. | | | | | |
| Monkey & Plasma | Estimates only. Use values for rabbit. | | | | | |
| Human | Estimates only. Use values for rabbit. | | | | | |

# 3M ENVIRONMENTAL LABORATORY

## METHOD

## EXTRACTION OF FLUOROCHEMICAL COMPOUNDS FROM SERUM FOR ANALYSIS USING HPLC-ELECTROSPRAY/MASS SPECTROMETRY

**Method Number:** ETS-8-4.2 **Adoption Date:** 03/01/99

**Effective Date:** 2/2/01

Approved By:

02/02/01
Laboratory Manager Date

02/02/01
Group Leader Date

### 1.0 SCOPE AND APPLICATION

1.1 **Scope:** This method is for the extraction of fluorochemical compounds from serum.

1.2 **Applicable compounds:** Fluorochemical surfactants or other fluorinated compounds.

1.3 **Matrices:** Rabbit, rat, bovine, monkey, and human serum or other fluids as designated in the validation report.

Exact Copy of Original
RWW 8/28/01
Initial Date

### 2.0 SUMMARY OF METHOD

2.1 This performance-based method describes the procedure for extracting perfluorooctane-sulfonate (PFOS) or other fluorochemical surfactants from serum, or other fluids, using an ion pairing reagent and methyl-*tert*-butyl ether (MtBE). An ion pairing reagent is added to the sample and the analyte-ion pair is partitioned into MtBE. The MtBE extract is removed and put onto a nitrogen evaporator until dry. Each extract is reconstituted in 1.0 mL of methanol, then filtered through a 0.2 µm nylon filter using a 3-mL plastic

syringe into glass autovials. (Application of this method to seven fluorochemicals was demonstrated: PFOS, PFOSA, PFOSAA, EtFOSE-OH, PFOSEA, M556, and a surrogate standard {see *3.0 **Definitions***}).

2.2 These sample extracts are analyzed following method ETS-8-5.2 or other appropriate method.

## 3.0 Definitions

3.1 PFOS: perfluorooctanesulfonate (anion of potassium salt) $C_8F_{17}SO_3^-$

3.2 PFOSA: perfluorooctane sulfonylamide $C_8F_{17}SO_2NH_2$

3.3 PFOSAA: perfluorooctane sulfonylamido (ethyl)acetate $C_8F_{17}SO_2N(CH_2CH_3)CH_2CO_2^-$

3.4 EtFOSE-OH: 2(N-ethylperfluorooctane sulfonamido)-ethyl alcohol $C_8F_{17}SO_2N(CH_2CH_3)CH_2CH_2OH$

3.5 PFOSEA: perfluorooctane sulfonyl ethylamide $C_8F_{17}SO_2N(CH_2CH_3)H$

3.6 M556: $C_8F_{17}SO_2N(H)(CH_2COOH)$

3.7 Surrogate standard THPFOS: 1H-1H-2H-2H perfluorooctane sulfonic acid

## 4.0 Warnings and Cautions

**4.1 Health and safety warnings**

**4.1.1** Use universal precautions, especially laboratory coats, goggles, and gloves when handling animal tissue, which may contain pathogens.

## 5.0 Interferences

5.1 There are no interferences known at this time.

## 6.0 Equipment

6.1 The following equipment is used while performing this method. Equivalent equipment is acceptable.

**6.1.1** Vortex mixer, VWR, Vortex Genie 2

**6.1.2** Centrifuge, Mistral 1000 or IEC

**6.1.3** Shaker, Eberbach or VWR

**6.1.4** Nitrogen evaporator, Organomation

**6.1.5** Balance (± 0.100 g)

## 7.0 Su and Materials

7.1 Gloves

7.2 Eppendorf or disposable pipettes, plastic or glass (or equivalent)

7.3 Polypropylene bottles, capable of holding 250 mL and 1 L (Nalgene or equivalent)

7.4 Volumetric flasks, glass, type A

7.5 40 mL glass vials (I-CHEM or equivalent)

7.6 Centrifuge tubes, polypropylene, 15 mL

7.7 Labels

7.8 Bottle-top Dispenser – 3.0 to 10.0 mL or a 5–10 mL graduated pipette, glass

7.9 Syringes, capable of measuring 5 µL to 50 µL

7.10 Graduated pipettes

7.11 Syringes, disposable plastic, 3 mL (B&D or equivalent)

7.12 Syringe filters, nylon, 0.2 µm, 25 mm

7.13 Timer

7.14 Crimp cap glass autovials and caps

7.15 Crimpers

**Note:** Prior to using glassware and bottles, rinse 3 times with methanol and 3 times with water. Rinse syringes a minimum of 9 times with methanol, 3 rinses from 3 separate vials.

## 8.0 Reagents and Standards

8.1 Reagent grade water, Milli-Q™, Nanopure II or equivalent

8.2 Sodium hydroxide (NaOH), J.T Baker or equivalent

8.3 Tetrabutylammonium hydrogen sulfate(TBA), Kodak or equivalent

8.4 Sodium carbonate ($Na_2CO_3$), J.T. Baker or equivalent

8.5 Sodium bicarbonate ($NaHCO_3$), J.T. Baker or equivalent

8.6 Methyl-T-Butyl Ether, Omnisolv, glass distilled or HPLC grade

8.7 Methanol, Omnisolv, glass distilled or HPLC grade

8.8 Serum or blood, frozen from supplier

8.9 **Fluorochemical standards**

8.9.1 KPFOS (PFOS) (3M Specialty Chemical Division), molecular weight = 538

8.9.2 PFOSA (3M Specialty Chemical Division), molecular weight = 499

8.9.3 PFOSAA+H (PFOSAA) (3M Specialty Chemical Division), molecular weight = 585

8.9.4 EtFOSE-OH (3M Specialty Chemical Division), molecular weight = 570

8.9.5 PFOSEA (3M Specialty Chemical Division), molecular weight = 527

8.9.6 M556 (3M Specialty Chemical Division), molecular weight = 557

8.9.7 Surrogate standard: 4-H, perfluorooctane sulfonic acid (1-H,1-H, 2-H, 2-H $C_8F_{13}SO_3H$, [THPFOS]), molecular weight = 428

8.9.8 Other fluorochemicals, as appropriate

### 8.10 Reagent preparation

NOTE: When preparing different volumes than listed in reagent, standard, or surrogate preparation, adjust accordingly.

**8.10.1** 10 N sodium hydroxide (NaOH): Weigh approximately 200 g NaOH. Pour into a 1000 mL beaker containing 500 mL water, mix until all solids are dissolved. Store in a 1 L polypropylene (or equivalent) bottle.

**8.10.2** 1 N sodium hydroxide (NaOH): Dilute 10 N NaOH 1:10. Measure 10 mL of 10 N NaOH solution into a 100 mL volumetric flask and bring to volume using water. Store in a 125 mL polypropylene (or equivalent) bottle.

**8.10.3** 0.5 M tetrabutylammonium hydrogen sulfate (TBA): Weigh approximately 169 g of TBA into a 1 L volumetric containing 500 mL water. Adjust to pH 10 using approximately 44 to 54 mL of 10 N NaOH. (Add the last 1.0 mL of NaOH slowly, as the pH changes abruptly.) Dilute to volume with water. Store in a 1 L polypropylene (or equivalent) bottle.

**8.10.3.1** TBA requires a check prior to each use to ensure pH = 10. Adjust as needed using 1 N NaOH solution.

**8.10.4** 0.25 M sodium carbonate/sodium bicarbonate buffer ($Na_2CO_3/NaHCO_3$): Weigh approximately 26.5 g of sodium carbonate ($Na_2CO_3$) and 21.0 g of sodium bicarbonate ($NaHCO_3$) into a 1 L volumetric flask and bring to volume with water. Store in a 1 L polypropylene (or equivalent) bottle.

### 8.11 Standards preparation

**8.11.1** Prepare PFOS standards for the standard curve.

**8.11.2** Prepare other fluorochemical standards, as appropriate. Multicomponent fluorochemical standards are acceptable (for example, one working standard solution containing approximately 1.00 µg/mL of PFOS, PFOSA, PFOSAA, PFOSEA, M556 and EtFOSE-OH).

**8.11.3** Weigh approximately 100 mg of PFOS into a 100 mL volumetric flask and record the actual weight. For standards with $K^+$ or other salts, multiply by a correction factor. For example, the molecular weight of KPFOS = 538, and the molecular weight of PFOS = 499. Calculate the correction factor by using the following equation:

$$\frac{\textit{molecular wt. PFOS (499)}}{\textit{molecular wt. KPFOS (538)}} = 0.9275 \quad \textit{(Correction factor)}$$

**8.11.4** Bring to volume with methanol for a stock standard of approximately 1000 µg/mL.

**8.11.5** Dilute the stock solution with methanol for a working standard 1 solution of approximately 50 µg/mL.

$$\left(\frac{1000\ \mu g/mL \times 5\ mL}{100\ mL}\right) = 50\ \mu g/mL$$

**8.11.6** Dilute working standard 1 with methanol for a working standard 2 solution of approx. 5.0 µg/mL.

$$\left(\frac{50\ \mu g/mL \times 10\ mL}{100\ mL}\right) = 5.0\ \mu g/mL$$

**8.11.7** Dilute working standard 1 with methanol for a working standard 3 solution of approx. 0.50 µg/mL.

$$\left(\frac{50\ \mu g/mL \times 1.0\ mL}{100\ mL}\right) = 0.500\ \mu g/mL$$

**8.12 Surrogate THPFOS stock standard preparation**

**8.12.1** Weigh approximately 50-60 mg of surrogate standard 1-H,1-H, 2-H, 2-H, $C_8F_{13}SO_3H$ (THPFOS) into a 50 mL volumetric flask and record the actual weight.

**8.12.2** Bring to volume with methanol for a surrogate stock of approximately 1000-1200 µg/mL.

**8.12.3** Prepare a surrogate working standard. Transfer approximately 1 mL of surrogate stock to a 10 mL volumetric flask and bring to volume with methanol for a working standard of 100 µg/mL. Record the actual volume transferred.

## 9.0 Sample Handling

**9.1** All samples are received frozen and must be kept frozen until the extraction is performed.

**9.2** Allow samples to thaw at room temperature or in lukewarm water prior to extraction.

## 10.0 Quality Control

**10.1 Solvent Blanks, Method Blanks and Matrix Blanks**

**10.1.1** Solvent Blanks: An aliquot of 1.0 mL methanol is used as a solvent blank.

**10.1.2** Method Blanks: Following this procedure, extract two 1.0 mL aliquots of water and use as method blanks.

**10.1.3** Matrix Blanks: Matrix blanks are prepared from one of three sources: 1) a study control matrix from a study control animal received with each sample set; 2) a commercially obtained sample of the same species as the study animals; or 3) a surrogate matrix, also obtained commercially, but of a different species than the study animal (e.g. if rabbit is used to generate standard curves and CCVs for a monkey or rat sera study). The matrix to use depends on what matrix is used for the curve.

**10.1.3.1** Study control matrix curve—If the study control matrix is used for the curve, prepare two (2) matrix blanks using the study control matrix.

**10.1.3.2** Commercially obtained (same species) matrix curve—If the curve is prepared using commercially obtained matrix in the same species as the study animal, prepare two matrix blanks using this same commercially available matrix.

**10.1.3.3** Surrogate matrix curve—If a surrogate matrix is used for the curve and continuing calibration verification samples:

a) prepare two (2) matrix blanks using the surrogate matrix.

b) Also, prepare a matrix blank with each set of matrix spikes (a set is a matrix spike/matrix spike duplicate at one level) using a commercially available matrix of the same species as the study animals.

**10.2 Matrix spikes**

**10.2.1** Study Control Matrix Curve

No matrix spikes are prepared.

**10.2.2** Commercially obtained matrix curve (same species)

No matrix spikes are prepared.

**10.2.3** Surrogate matrix curve

Matrix spikes are necessary if matrix is not available in the same species as the study animal and a surrogate matrix is used for the curve and CCV samples (e.g., rabbit sera may be used to generate standard curves for a monkey sera study, due to measurable levels of endogenous analyte in the monkey sera). Prepare and analyze matrix spike and matrix spike duplicate samples to verify the accuracy of the extraction for target analytes.

**10.2.4** Prepare each MS and MSD at two (2) levels (usually a low and mid-range concentration) using a sample chosen by the analyst, typically sera from a control group animal received with each sample set.

**10.2.4.1** If there is not sufficient sera available from the control group, prepare matrix spikes using commercially available matrix from the same species as the study animal.

**10.2.5** Prepare one matrix spike and matrix spike duplicate at each level listed in **10.2.4** per 20 samples, with a minimum of 2 matrix spikes per level per batch. If a batch includes more than 20 samples, additional spikes may be prepared at the same, low, or high range levels.

**10.2.6** If more than 25% of the samples are ≤LOQ, two matrix spikes should be prepared at approximately 2–5 times the expected LOQ.

**10.2.7** If the majority of the samples are at or above the high range of the curve, additional matrix spikes should be prepared to approximate sample concentrations.

**10.3 Continuing calibration verifications (CCVs)**

**10.3.1** Prepare continuing calibration verification samples for instrument stability verification during analysis. Prepare and analyze CCVs for every assay run, regardless of the matrix type used to prepare the standard curve.

**10.3.2** Prepare each continuing calibration verification from the same matrix used to prepare the initial curve (i.e., either the study control matrix, commercial matrix of same species, or surrogate matrix).

**10.3.3** The expected concentrations of the CCVs will fall within the range of the initial calibration curve; typically, the low to mid-range of the curve.

**10.3.4** Prepare, at a minimum, two continuing calibration verifications, each at a different concentration, per group of 10 samples. For example, if a sample set = 34, eight (8) checks are prepared; four (4) at a low range and four (4) at a mid-range concentration.

**10.3.5** Additional continuing calibration verifications may be included at the same, low, mid or high-range concentration.

## 11.0 CALIBRATION AND STANDARDIZATION

### 11.1 Prepare matrix calibration standards

**11.1.1** Transfer 1 mL of appropriate serum to a 15 mL centrifuge tube. If commercially available sera is used, prepare two matrix blanks, using the volume of sera available for most study animals.

**11.1.1.1** Depending upon study goals or if analyte-free commercial sera is not available, a surrogate matrix may be used for generation of the calibration standard. For example, rabbit sera may be used as a surrogate matrix for rat studies if quantitation of extremely low levels of the analyte is required.

**11.1.2** If most sample volumes are less than 1.0 mL, extract standards with matrix volumes equal to the sample volumes. Do not extract less than 0.50 mL of matrix. Record each sample volume on the extraction sheet.

**11.1.3** While preparing a total of thirteen aliquots in 15-mL centrifuge tubes, mix or shake sera between aliquots.

**11.1.4** Two 1-mL aliquots, or other appropriate volume, serve as curve matrix blanks. Typically use the standard concentrations and spiking amounts listed in Table 1 at the end of this section to spike one standard curve, for a total of nine standards, two matrix blanks, and two method blanks.

**11.1.5** Refer to validation report **ETS-8-4.0 & ETS-8-5.0-V-1,** which lists the working ranges and the Linear Calibration Range (LCR) for calibration curves.

**11.1.6** See Section **13.0** to calculate actual concentrations of PFOS in calibration standards.

**11.2** To each standard, blank, continuing check, and sample add an appropriate amount of surrogate working standard to achieve a constant concentration that falls within the calibration curve range of 2.5 ng/mL–1000 ng/mL. Usually, samples are spiked for a constant concentration in all samples at approximately 500 ng/mL or other concentration as determined by the analyst.

**11.3** Extract spiked matrix standards following **12.6-12.16** of this method. Use these standards to establish each initial curve on the mass spectrometer.

| Table 1<br>Approximate spiking amounts for standards and spikes<br>Using 1.0 mL of matrix | | |
|---|---|---|
| Working standard (approx. conc.) | µL | Approx. final conc. of analyte in matrix |
| - | - | Blank |
| 0.500 ppm | 10 | 0.005 ppm |
| 0.500 ppm | 20 | 0.010 ppm |
| 5.00 ppm | 5 | 0.025 ppm |
| 5.00 ppm | 10 | 0.050 ppm |
| 5.00 ppm | 20 | 0.100 ppm |
| 50.0 ppm | 5 | 0.250 ppm |
| 50.0 ppm | 10 | 0.500 ppm |
| 50.0 ppm | 15 | 0.750 ppm |
| 50.0 ppm | 20 | 1.00 ppm |

*ppm=µg/mL

## 12.0 PROCEDURE

**12.1** Obtain frozen samples and allow to thaw at room temperature or in lukewarm water.

**12.2** Label a 15 mL polypropylene centrifuge tube with the study number, sample ID, date and analyst initials. See attached worksheet (Attachment A or similar worksheet) for documenting the remaining steps.

**12.3** Vortex mix for 15 seconds, then transfer 1.0 mL or other appropriate volume to the 15 mL polypropylene centrifuge tube.

**12.4** Return unused samples to freezer after extraction amounts have been removed.

**12.5** Record the initial volume on the extraction worksheet (Attachment A or similar worksheet).

**12.6** Spike all samples, blanks and standards, that are ready for extraction with surrogate standard as described in **11.2.**

**12.7** Spike each calibration standard matrix with the appropriate amount of standard as described in **11.1**, or **Table 1** in that section, for the calibration curve standards. Also prepare matrix spikes if necessary and continuing calibration standards.

**12.8** Vortex mix the standard curve samples, matrix spike samples, and continuing calibration samples for 15 seconds.

**12.9** Check to ensure the 0.5 M TBA reagent is at pH 10. If not, adjust accordingly.

**12.10** To each sample, add 1 mL 0.5 M TBA and 2 mL of 0.25M sodium carbonate/sodium bicarbonate buffer.

**12.11** Using an bottle top dispenser or 5–10 mL graduated glass pipette, add 5 mL methyl-*tert*-butyl ether.

**12.12** Cap each sample and put on the shaker at a setting of 300 rpm for 20 minutes.

**12.13** Centrifuge for 20 to 25 minutes at a setting of 3500 rpm or until layers are well separated.

**12.14** Label a fresh 15 mL centrifuge tube with the same information as in **12.5**.

**12.15** Remove 4.0 mL of the organic (top) layer to this clean 15 mL centrifuge tube.

**12.16** Put each sample on the analytical nitrogen evaporator until dry, approximately 1 to 2 hours.

**12.17** Add 1.0 mL of methanol to each centrifuge tube using a graduated pipette.

**12.18** Vortex mix for 30 seconds, or longer if needed.

**12.19** Label a 1.5 mL glass autovial (or low-volume autovial when necessary) with the study number, animal number and gender, sample timepoint, matrix, final solvent, extraction date, and analyst(s) performing the extraction.

**12.20** Attach a 25 mm, 0.2 µm nylon mesh filter to a 3 mL syringe and transfer the sample from step 12.18 to this syringe. Filter into the labeled autovial.

**12.21** Cap and store extracts at room temperature or at approximately 4 °C until analysis.

**12.22** Complete the extraction worksheet (Attachment A or similar worksheet) and include in the study binder.

## 13.0 Data Analysis and Calculations

### 13.1 Calculations

**13.1.1** Calculate actual concentrations of PFOS, or other applicable fluorochemical, in calibration standards using the following equation:

$$\frac{mL\ of\ std \times concentration\ of\ std\ (\mu g / mL)}{mL\ of\ std + mL\ of\ surrogate\ std + initial\ matrix\ volume\ (mL)} = Final\ concentration\ (\mu g / mL)\ of\ PFOS\ in\ matrix$$

## 14.0 Method Performance

**14.1** The method detection limit (MDL) is analyte and matrix specific. Refer to MDL report for specific MDL and limit of quantitation (LOQ) values (see **Attachments B and C**). At the discretion of the PAI, MDL may not be defined for some studies.

**14.2** The following quality control samples are extracted with each batch of samples to evaluate the quality of the extraction and analysis.

**14.2.1** Method blanks and matrix blanks.

**14.2.2** If surrogate matrix is used for curve and QC, matrix spike and matrix spike duplicate samples to verify extraction efficiency.

**14.2.3** Continuing calibration check samples to determine the continued accuracy of the initial calibration curve.

**14.3** Refer to section 14 of ETS-8-5.2 for method performance criteria.

## 15.0 Pollution Prevention and Waste Management

15.1 Dispose of sample waste, flammable solvent waste and used glass pipette waste using proper methods and by placing each in their designated waste container.

## 16.0 Records

16.1 Complete the extraction worksheet attached to this method (or a similar worksheet), and include in the study binder.

## 17.0 Attachments

17.1 Attachment A, Extraction worksheet (a similar worksheet may be substituted for Attachment A)

17.2 Attachment B, MDL/LOQ values and summary

17.3 Attachment C, Ion Pair Standard Curves worksheet (a similar worksheet may be substituted for Attachment C)

## 18.0 References

18.1 The validation report associated with this method is **ETS-8-4.0 & 5.0-V-1.**

18.2 FACT-M-3.1, "Analysis of Serum or Other Fluid Extracts for Fluorochemicals using HPLC-Electrospray Mass Spectrometry"

18.3 ETS-8-5.2, "Analysis of Potassium Perfluorooctanesulfonate or Other Fluorochemicals in Serum Extracts Using HPLC-Electrospray/Mass Spectrometry"

## 19.0 Affected Documents

19.1 ETS-8-5.2, "Analysis of Potassium Perfluorooctanesulfonate or Other Fluorochemicals in Serum Extracts Using HPLC-Electrospray/Mass Spectrometry"

## 20.0 Revisions

| Revision Number | Reason For Revision | Revision Date |
|---|---|---|
| 1 | Section 12.21 Changed to include sample storage at room temperature.<br>Section 12.13 Added the shaker speed.<br>Section 12.17 Final volume is 1.0 mL; not adjusted for initial volumes less than 1.0 mL. | 04/02/99 |
| 2 | Section 1.1, 2.1 Eliminate 'potassium' from perfluorooctanesulfonate<br>8.9.1 Add K to PFOS<br>8.9.3 Add H to PFOSAA<br>10.2-10.2.4, 14.2.2 Add information about using surrogate matrix, clarify control matrix and spiking the curve, change spikes to every 20 samples<br>10.3 Clarify purpose of continuing calibration checks<br>11.1 Added wording about control animal sera, using and not using commercially available tissue<br>In general, make less specific for equipment/supplies. Substitute water for Milli-Q, Nalgene or equivalent bottle may be used. | |

## Extraction Worksheet ETS-8-4.2

| Study #_____ Matrix_____ Box #_____ Wk/Day_____ Date Spiked/ Analyst: | Surrogate Std actual µg/mL #_____ | FC-Mix approx. 0.5 µg/mL #_____ | FC-Mix approx. 5 µg/mL #_____ | FC-Mix approx. 50 µg/mL #_____ | Comments | Verified by: |
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|---|---|
| Blank ID # amount = mL | |
| **Serum Extraction Method** : **Date & Initials** | |
| Vortex 15 sec. | |
| Pipette Matrix, spike with appropriate surrogate or FCMix Volume mL | |
| Pipette 1 mL of 0.5 M TBA, pH 10. pH = Std. # | |
| Pipette 2 mL of 0.25 $Na_2CO_3$/0.25M $NaHCO_3$ buffer Std. # | |
| Dispense/pipette 5 mL of methyl-t-butyl ether TN-A- | |
| Dispenser ID #: | |
| Shake 20 min. Shaker ID #: Shaker speed: | |
| Centrifuge 20-25 min. Centrifuge ID#: Centrifuge speed: | |
| Remove a 4 mL aliquot of organic layer | |
| Put on Nitrogen Evaporator to dryness | |
| Add methanol Volume mL TN-A- | |
| Vortex 30 sec. | |
| Filter using a 3mL B-D syringe with a 0.2um filter into a 1.5 mL autosample vial | |

Cont. Cal. Verifications used same matrix as for std curve.

**MDL/LOQ values for rabbit serum**

| Compound | MDL (ng/mL) | LOQ (ng/mL) | Linear Calibration Range (LCR) Approximate concentrations to be used for preparing the Standard Calibration Curve |
|---|---|---|---|
| PFOS | 1.74 | 5.55 | 5 ng/mL–1000 ng/mL |
| PFOSA | 1.51 | 4.79 | 5 ng/mL–1000 ng/mL |
| PFOSAA | 3.46 | 20.5 | 5 ng/mL–1000 ng/mL |
| EtFOSE-OH | 11.4 | 36.2 | 5 ng/mL–1000 ng/mL |
| M556 | 6.03 | 19.2 | 5 ng/mL–1000 ng/mL |
| PFOSEA | 5.71 | 18.2 | 5 ng/mL–1000 ng/mL |

MDL/LOQ values in rat, bovine, monkey, and human serum, and monkey plasma were not statistically determined. Two curves in each of these matrices were extracted and analyzed with the rabbit serum curves to determine equivalence. Responses in the rat, bovine, monkey, and human were equivalent to the rabbit responses, therefore, their MDL and LOQ will be the same values as determined in rabbit serum.

Please see LOQ Summary and MDL study in ETS-8-4.0 & 5.0-V-1 for further information.

**Compound: PFOS**

| Rabbit Serum | Prepared range of standards (ng/mL) | LCR from curve (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.995 - 978 | 24.8 - 978 | 83-108 | 4.67-11.0 |
| Low Curve | 4.94 - 248 | 4.94 - 248 | 85-104 | 5.34-12.0 |
| High curve | 97.8 - 978 | 97.8 – 978 | 85-106 | 4.84-9.80 |
| 1/X | 0.995 - 978 | 4.94 - 978 | 94-111 | 4.60-10.5 |

**Compound: PFOSA**

| Rabbit Serum | Prepared range of standards (ng/mL) | LCR from curve (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 4.93 - 976 | 88-103 | 5.10-14.7 |
| Low Curve | 4.93 - 97.6 | 4.93 - 97.6 | 87-105 | 9.85-14.7 |
| High curve | 24.8 - 976 | 24.8 - 978 | 93-102 | 5.08-13.9 |
| 1/X | 0.993 - 976 | 4.93 - 976 | 94-103 | 5.10-14.5 |

**Compound: PFOSAA**

| Rabbit Serum | Prepared range of standards (ng/mL) | LCR from curve (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.991 - 974 | 24.7 - 974 | 81-111 | 4.18-10.6 |
| Low Curve | 4.92 - 247 | 9.74 - 247 | 97-107 | 6.38-21.8 |
| High curve | 49.2 - 974 | 97.4 - 974 | 85-108 | 4.33-12.5 |
| 1/X | 0.991 - 974 | 9.74 - 974 | 95-115 | 4.11-23.2 |

**Compound: EtFOSE-OH**

| Rabbit Serum | Prepared range of standards (ng/mL) | LCR from curve (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 49.3 - 976 | 77-110 | 11.2-25.5 |
| Low Curve | 4.93 – 97.6 | 9.76 – 97.6 | 97-107 | 14.1-21.3 |
| High curve | 49.3 - 976 | 97.6 - 976 | 90-109 | 11.5-19.6 |
| 1/X | 0.993 - 493 | 9.76 - 976 | 86-111 | 11.1-21.2 |

**Compound: PFOSEA**

| Rabbit Serum | Prepared range of standards (ng/mL) | LCR from curve (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 24.8 - 976 | 96-106 | 10.1-16.2 |
| Low Curve | 4.93 - 248 | 9.76 - 248 | 91-110 | 11.8-19.5 |
| High curve | 49.3 - 976 | 49.3 - 976 | 86-106 | 10.2-18.2 |
| 1/X | 0.993 - 976 | 9.76 - 976 | 95-117 | 10.1-19.1 |

**Compound: M556**

| Rabbit Serum | Prepared range of standards (ng/mL) | LCR from curve (ng/mL) | % Recovery Range | RSD Range |
|---|---|---|---|---|
| Full Range | 0.993 - 976 | 24.8 - 976 | 88-106 | 4.82-17.9 |
| Low Curve | 4.93 - 97.6 | 9.76 – 97.6 | 100-105 | 5.95-18.2 |
| High curve | 97.6 - 976 | 97.6 - 976 | 81-111 | 5.11-9.74 |
| 1/X | 0.993 - 976 | 9.76 - 976 | 97-110 | 4.77-19.5 |

*EXAMPLE*

## Ion Pair Standard Curves – Fluids

**Analyst(s)**
**Prep date(s):**
**Analyte(s):**
**Study number:**
**Final solvent and TN:**
**Blank fluid/identifier:** {Record matrix used to prepare curves, (e.g., 'Rabbit' ID #XXX)}

**Study Animal Matrix :**
**Method/revision:**
**Target analyte(s):**
**FC mix std approx.** 0.500 ppm:
**FC mix std approx.** 5.00 ppm:
**FC mix std approx.** 50.0 ppm:
**Surrogate std approx.** 100 ppm:

{Record the standards used to prepare the extracted curves.}

**Actual concentrations of standards in the FC mix in methanol**

| PFOS Std conc µg/mL | PFOSA Std conc µg/mL | PFOSAA Std conc µg/mL | EtFOSE Std conc µg/mL | PFOSEA Std conc µg/mL | M556 Std conc µg/mL | All Am't spiked mL | All Final vol mL |
|---|---|---|---|---|---|---|---|
| 0.500 | 0.507 | 0.532 | 0.501 | 0.521 | 0.501 | 0.010 | 1.015 |
| 0.500 | 0.507 | 0.532 | 0.501 | 0.521 | 0.501 | 0.020 | 1.025 |
| 5.00 | 5.07 | 5.32 | 5.01 | 5.21 | 5.01 | 0.005 | 1.010 |
| 5.00 | 5.07 | 5.32 | 5.01 | 5.21 | 5.01 | 0.010 | 1.015 |
| 5.00 | 5.07 | 5.32 | 5.01 | 5.21 | 5.01 | 0.020 | 1.025 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.005 | 1.010 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.010 | 1.015 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.015 | 1.020 |
| 50.0 | 50.1 | 53.2 | 50.1 | 52.1 | 50.1 | 0.020 | 1.025 |

Example

**Calculated concentrations of standards in the sera matrix: Rabbit**

| PFOS Final conc ng/mL | PFOSA Final conc ng/mL | PFOSAA Final conc ng/mL | EtFOSE Final conc ng/mL | PFOSEA Final conc ng/mL | M556 Final conc ng/mL | Surrogate Std conc ng/mL | All Am't spiked mL |
|---|---|---|---|---|---|---|---|
| 4.93 | 5.00 | 5.24 | 4.94 | 5.01 | 5.13 | 100 | 0.005 |
| 9.76 | 9.89 | 10.4 | 9.78 | 9.93 | 10.2 | | |
| 24.8 | 25.1 | 26.3 | 24.8 | 25.2 | 25.8 | **Surrogate** | |
| 49.3 | 50.0 | 52.4 | 49.4 | 50.1 | 51.3 | Final conc ng/mL | |
| 97.6 | 98.9 | 104 | 97.8 | 99.3 | 102 | 500 | |
| 248 | 251 | 263 | 248 | 252 | 258 | | |
| 493 | 500 | 524 | 494 | 501 | 513 | | |
| 735 | 746 | 782 | 737 | 749 | 766 | | |
| 976 | 989 | 1038 | 978 | 993 | 1017 | | |

Example

**Validated ranges – approximate concentrations**

| Serum | PFOS | PFOSA | PFOSAA | EtFOSE-OH | PFOSEA | M556 |
|---|---|---|---|---|---|---|
| Rabbit | 5.00-1000 ng/mL | 5.00-1000 ng/mL | 5.00-1000 ng/mL | 5.00-1000 ng/mL | 5.00-1000 ng/mL | 5.00-1000 ng/mL |
| Bovine | Estimates only. Use values for rabbit. | | | | | |
| Rat | Estimates only. Use values for rabbit. | | | | | |
| Monkey & Plasma | Estimates only. Use values for rabbit. | | | | | |
| Human | Estimates only. Use values for rabbit. | | | | | |

# 3M ENVIRONMENTAL LABORATORY

## METHOD

## ANALYSIS OF POTASSIUM PERFLUOROOCTANESULFONATE OR OTHER FLUOROCHEMICALS IN SERUM EXTRACTS USING HPLC-ELECTROSPRAY/MASS SPECTROMETRY

**Method Number:** ETS-8-5.1

**Adoption Date:** 03/01/99

**Revision Date:** 4/26/99

Author: Lisa Clemen, Robert Wynne

Approved By:

| | |
|---|---|
| [signature] | 4/26/99 |
| Laboratory Manager | Date |
| [signature] | 4/26/99 |
| Group Leader | Date |
| Lisa A Clemen | 04/26/99 |
| Technical Reviewer | Date |

Exact Copy of Original
RWW 8/28/01
Initial Date

### 1.0 SCOPE AND APPLICATION

**1.1 Scope:** This method describes the analysis of serum extracts for fluorochemical surfactants using HPLC-electrospray/mass spectrometry.

**1.2 Applicable Compounds:** Fluorochemical surfactants or other fluorinated compounds, or other ionizable compounds.

**1.3 Matrices:** Rabbit, rat, bovine, monkey, and human serum, or other fluids as designated in the validation report.

## 2.0 Summary of Method

2.1 This method describes the analysis of fluorochemical surfactants extracted from serum or other fluids, using HPLC-electrospray/mass spectrometry, or similar system as appropriate. The analysis is performed by monitoring a single ion characteristic of a particular fluorochemical, such as the perfluorooctanesulfonate (PFOS) anion, m/z= 499. Additionally, samples may be analyzed using a tandem mass spectrometer to further verify the identity of a compound by detecting daughter ions of the parent ion.

## 3.0 Definitions

3.1 **Atmospheric Pressure Ionization (API):** The Micromass Quattro II triple quadrupole systems allow for various methods of ionization by utilizing various sources, probes, and interfaces. These include but are not limited to: Electrospray Ionization (ESI), Atmospheric Pressure chemical Ionization (APcI), Thermospray, etc. The ionization process in these techniques occurs at atmospheric pressure (i.e., not under a vacuum).

3.2 **Electrospray Ionization (ES, ESI):** a method of ionization performed at atmospheric pressure, whereby ions in solution are transferred to the gas phase via tiny charged droplets. These charged droplets are produced by the application of a strong electrical field.

3.3 **Mass Spectrometry, Mass Spectrometer (MS), Tandem Mass Spectrometer (MS/MS):** The API Quattro II triple quadrupole systems are equipped with quadrupole mass selective detectors. Ions are selectively discriminated by mass to charge ratio (m/z) and subsequently detected. A single MS may be employed for ion detection or a series (MS/MS) for more specific fragmentation information.

3.4 **Conventional vs. Z-spray probe interface:** The latest models of Micromass Quattro II triple quadrupole systems (post 1998) utilize a "Z-spray" conformation. The spray emitted from a probe is orthogonal to the cone aperture. In the conventional conformation it is aimed directly at the cone aperture, after passing through a tortuous pathway in the counter electrode. Though the configuration is different, the methods of operation, cleaning, and maintenance are the same. However, Z-spray components and conventional components are not compatible with one another, but only with similar systems (i.e., Z-spray components are compatible with some other Z-spray systems, etc.)

3.5 **Mass Lynx Software:** System software designed for the specific operation of these Quattro II triple quadrupole systems. Currently MassLynx has Windows 95 and WindowsNT 4.0 versions. All versions are similar. For more details see the manual specific to the instrument (Micromass Quattro II triple quadrupole MassLynx or MassLynx NT User's Guide).

## 4.0 Warnings and Cautions

4.1 **Health and Safety Warnings:**

4.1.1 Use caution with the voltage cables for the probe. When engaged, the probe employs a voltage of approximately 5000 Volts.

4.1.2 When handling samples or solvents wear appropriate protective gloves, eyewear, and clothing.

4.2 **Cautions:**

4.2.1 Do not operate solvent pumps above capacity of 400 bar (5800 psi) back pressure. If the back pressure exceeds 400 bar, the HP1100 will initiate automatic shutdown.

4.2.2 Do not run solvent pumps to dryness.

## 5.0 INTERFERENCES

5.1 To minimize interferences when analyzing samples, teflon should not be used for sample storage or any part of instrumentation that comes in contact with the sample or extract.

## 6.0 EQUIPMENT

6.1 Equipment listed below may be modified in order to optimize the system. Document any modifications in the raw data as method deviations.

6.1.1 Micromass Quattro II triple quadrupole Mass Spectrometer equipped with an electrospray ionization source

6.1.2 HP1100 low pulse solvent pumping system, solvent degasser, column compartment, and autosampler

## 7.0 SUPPLIES AND MATERIALS

7.1 **Supplies**

7.1.1 High purity grade nitrogen gas regulated to approximately 100 psi (House air system)

7.1.2 HPLC analytical column, specifics to be determined by the analyst and documented in the raw data.

7.1.3 Capped autovials or capped 15 mL centrifuge tubes

## 8.0 REAGENTS AND STANDARDS

8.1 **Reagents**

8.1.1 Methanol, HPLC grade or equivalent

8.1.2 Milli-Q™ water, all water used in this method should be Milli-Q™ water or equivalent, and may be provided by a Milli-Q TOC Plus system or other vendor

8.1.3 Ammonium acetate, reagent grade or equivalent

8.2 **Standards**

8.2.1 Typically two method blanks, two matrix blanks, and eighteen matrix standards are prepared during the extraction procedure. See ETS-8-4.1.

## 9.0 SAMPLE HANDLING

9.1 Fresh matrix standards are prepared with each analysis. Extracted standards and samples are stored in capped autovials or capped 15 mL centrifuge tubes until analysis.

9.2 If analysis will be delayed, extracted standards and samples can be refrigerated at approximately 4° C, or at room temperature, until analysis can be performed.

## 10.0 Quality Control

### 10.1 Solvent Blanks, Method Blanks and Matrix Blanks

10.1.1 Solvent blanks, method blanks and matrix blanks are prepared and analyzed with each batch to determine contamination or carryover.

10.1.2 Analyze a method blank and a matrix blank prior to each calibration curve.

### 10.2 Matrix Spikes

10.2.1 Matrix spikes are prepared and analyzed to determine the matrix effect on the recovery efficiency.

10.2.2 Matrix spike duplicates are prepared and analyzed to measure the precision and the recovery for each analyte.

10.2.3 Analyze a matrix spike and matrix spike duplicate per forty samples, with a minimum of 2 spikes per batch.

10.2.4 Matrix spike and matrix spike duplicate concentrations will fall in the mid-range of the initial calibration curve. Additional spike concentrations may fall in the low-range of the initial calibration curve.

### 10.3 Continuing Calibration Verifications

10.3.1 Continuing calibration verifications are analyzed to verify the continued accuracy of the calibration curve.

10.3.2 Analyze a mid-range calibration standard after every tenth sample, with a minimum of one per batch.

## 11.0 Calibration and Standardization

11.1 Analyze the extracted matrix standards prior to and following each set of extracts. The average of two standard curves will be plotted by linear regression ($y = my + b$), weighted 1/x, not forced through zero, using MassLynx or other suitable software.

11.2 If the curve does not meet requirements, perform routine maintenance or reextract the standard curve (if necessary) and reanalyze.

11.3 For purposes of accuracy when quantitating low levels of analyte, it may be necessary to use the low end of the calibration curve rather than the full range of the standard curve. Example: when attempting to quantitate approximately 10 ppb of analyte, generate a calibration curve consisting of the standards from 5 ppb to 100 ppb rather than the full range of the curve (5 ppb to 1000 ppb). This will reduce inaccuracy attributed to linear regression weighting of high concentration standards.

## 12.0 PROCEDURES

### 12.1 Acquisition Set up

12.1.1 Click on start button in the Acquisition Control Panel. Set up a sample list. Assign a filename using MO-DAY-last digit of year-sample number, assign a method (MS) for acquiring, and type in sample descriptions.

12.1.2 To create a method click on scan button in the Acquisition control panel and select SIR (Single Ion Recording) or MRM. Set Ionization Mode as appropriate and mass to 499 or other appropriate masses. A full scan is usually collected along with the SIRs. Save acquisition method. If MS/MS instruments are employed, additional product ion fragmentation information may be collected. See Micromass MassLynx GUIDE TO DATA ACQUISITION for additional information and MRM (Multiple Reaction Monitoring).

12.1.3 Typically the analytical batch run sequence begins with a set of extracted matrix standards and ends with a set of extracted matrix standards.

12.1.4 Samples are analyzed with a continuing calibration check injected after every tenth sample. Solvent blanks should be analyzed periodically to monitor possible analyte carryover and are not considered samples but may be included as such.

### 12.2 Using the Autosampler

12.2.1 Set up sample tray according to the sample list prepared in Section 12.1.1.

12.2.2 Set-up the HP1100/autosampler at the following conditions or at conditions the analyst considers appropriate for optimal response. Record actual conditions in the instrument logbook:

12.2.2.1 Sample size = 10 µL injection

12.2.2.2 Inject/sample = 1

12.2.2.3 Cycle time = 13.5 minutes

12.2.2.4 Solvent ramp =

| Time | MeOH | 2.0 mM Ammonium acetate |
|---|---|---|
| 0.00 min. | 40% | 60% |
| 8.50 min. | 90% | 10% |
| 11.0 min. | 90% | 10% |
| 12.0 min. | 40% | 60% |

12.2.2.5 Press the "Start" button.

### 12.3 Instrument Set-up

12.3.1 Refer to ETS-9-24.0 for more details.

12.3.2 Check the solvent level in reservoirs and refill if necessary.

12.3.3 Check the stainless steel capillary at the end of the probe. Use an eyepiece to check the tip. The tip should be flat with no jagged edges. If the tip is found to be unsatisfactory, disassemble the probe and replace the stainless steel capillary.

12.3.4 Set HPLC pump to "On". Set the flow to 10 - 500 uL/min or as appropriate. Observe droplets coming out of the tip of the probe. Allow to equilibrate for approximately 10 minutes.

12.3.5 Turn on the nitrogen. A fine mist should be expelled with no nitrogen leaking around the tip of the probe. Readjust the tip of the probe if no mist is observed.

12.3.6 The instrument uses these parameters at the following settings. These settings may change in order to optimize the response:

12.3.6.1 Drying gas 250-400 liters/hour

12.3.6.2 ESI nebulizing gas 10-15 liters/hour

12.3.6.3 HPLC constant flow mode, flow rate 10 – 500 µL/min

12.3.6.4 Pressure <400 bar (This parameter is not set, it is a guide to ensure the HPLC is operating correctly.)

12.3.7 Carefully guide the probe into the opening. Insert probe until it will not go any further. Connect the voltage cables to the probe.

12.3.8 Print the tune page, with its parameters, and store it in the study binder with a copy taped into the instrument log.

12.3.9 Using the cross-flow counter electrode in the ES/MS source is recommended for the analysis of biological matrices.

12.3.10 Click on start button in the Acquisition Control Panel (this may vary among MassLynx versions, see appropriate MassLynx USER'S GUIDE). Press the start button. Ensure start and end sample number includes all samples to be analyzed.

## 13.0 Data Analysis and Calculations

### 13.1 Calculations:

13.1.4 Calculate matrix spike percent recoveries using the following equation:

$$\% \text{ Recovery} = \frac{\text{Observed Result - Background Result}}{\text{Expected Result}} \times 100$$

13.1.5 Calculate percent difference using the following equation:

$$\% \text{ Difference} = \frac{\text{Expected Conc. - Calculated Conc.}}{\text{Expected Conc.}} \times 100$$

13.1.6 Calculate actual concentration of PFOS, or other fluorochemical, in matrix (µg/mL):

$$\frac{\text{(ng of PFOS calc. from std. Curve x Dilution Factor)}}{\text{(Initial Volume of matrix (mL) + mL of Surrogate Standard)}} \times \frac{1\ \mu g}{1000\ ng}$$
$$\text{Final Volume (mL)}$$

## 14.0 METHOD PERFORMANCE

14.1 Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are method, analyte, and matrix specific. Please see **ETS-8-4.1, Attachment B,** for a listing of current validated MDL and LOQ values.

**14.2 Solvent Blanks, Method Blanks, and Matrix Blanks**

14.2.1 Solvent blanks, method blanks, and matrix blanks values are must be below the lowest standard in the calibration curve

**14.3 Calibration Curves**

14.3.1 The $r^2$ value for the calibration curve must be 0.980 or better.

**14.4 Matrix Spikes**

14.4.1 Matrix spike percent recoveries are must be within ± 30% of the spiked concentration.

**14.5 Continuing Calibration Verifications**

14.5.1 Continuing calibration verification percent recoveries must be ± 30% of the spiked concentration.

14.6 If criteria listed in this method performance section isn't met, maintenance may be performed on the system and samples reanalyzed or other actions as determined by the analyst. Document all actions in the appropriate logbook.

14.7 If data are to be reported when performance criteria have not been met, the data must be footnoted on tables and discussed in the text of the report.

## 15.0 POLLUTION PREVENTION AND WASTE MANAGEMENT

15.1 Sample extract waste and flammable solvent is disposed in high BTU containers, and glass pipette waste is disposed in broken glass containers located in the laboratory.

## 16.0 RECORDS

16.1 Each page generated for a study must have the following information included either in the header or hand written on the page: study or project number, acquisition method, integration method, sample name, extraction date, dilution factor (if applicable), and analyst.

16.2 Print the tune page, sample list, and acquisition method from MassLynx to include in the appropriate study folder. Copy these pages and tape into the instrument runlog.

16.3 Plot the calibration curve by linear regression, weighted 1/x, then print these graphs and store in the study folder.

16.4 Print data integration summary, integration method, and chromatograms, from MassLynx, and store in the study folder.

16.5 Summarize data using suitable software (Excel 5.0) and store in the study folder, see **Attachment A** for an example of a summary spreadsheet.

16.6 Back up electronic data to appropriate medium. Record in study notebook the file name and location of backup electronic data.

## 17.0 Tables, Diagrams, Flowcharts, and Validation Data

17.1 Attachment A: ETS-8-5.1 Data summary spreadsheet.

## 18.0 References

18.1 FACT-M-4.1, "Extraction of Potassium Perfluorooctanesulfonate or Other Fluorochemical compounds from Serum for Analysis Using HPLC-Electrospray/Mass Spectrometry

18.2 ETS-9-24.0, "Operation and Maintenance of the Micromass Atmospheric Pressure Ionization/Mass Spectrometer Quattro II triple quadrupole Systems"

18.3 The validation report associated with this method is **ETS-8-4.0 & 5.0-V-1.**

## 19.0 Affected Documents

19.1 ETS-8-4.1, "Extraction of Potassium Perfluorooctanesulfonate or Other Fluorochemical Compounds from Serum for Analysis Using HPLC-Electrospray/Mass Spectrometry"

## 20.0 Revisions

| Revision Number. | Reason For Revision | Revision Date |
|---|---|---|
| 1 | Section 6.1.2 Clarification of HP1100 system components.<br>Section 11.1 Average of two curves, not standard values, are used for plotting linear regression and added the 1/x weighting of the curve.<br>Section 12.2.2.4 Clarification of solvent ramp.<br>Section 17.1 Changed from attachment B to A. | 04/02/99 |

## Laboratory Study #

Study:
Test Material:
Matrix/Final Solvent:
Method/Revision:
Analytical Equipment System Number:
Instrument Software/Version:
Filename:
R-Squared Value:
Slope:
Y Intercept:
Date of Extraction/Analyst:
Date of Analysis/Analyst:

| Group Dose | Sample# | Concentration ug/mL | Initial Vol. mL | Dilution Factor | Final Conc. ug/mL |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Slope:** Taken from linear regression equation.
**Group/Dose:** Taken from the study folder.
**Sample#:** Taken from the study folder.
**Concentration (ug/mL):** Taken from the MassLynx integration summary.
**Initial Volume (mL):** Taken from the study folder.
**Dilution Factor:** Taken from the study folder.
**Final Conc. (ug/mL):** Calculated by dividing the initial volume from the concentration

# Method Modification

Methods: ETS-8-7.0, ETS-8-5.1, ETS-8-97.0
Section modified: add section 14.3.2

Method reads:

NA

Modify method to read:

14.3.2 The second (bracketing) calibration curve may be deactivated if instrumental drift affects the data. The first curve and acceptable calibration checks shall bracket usable data.

Effective date of modification ETS-8-7.0: 7/22/99
Effective date of modification ETS-8-5.1: 4/26/99
Effective date of modification ETS-8-97.0: 7/28/99

[signature] 11/09/00
Signature of PAI and date

Exact Copy of Original
KJR 11/9/00

# 3M ENVIRONMENTAL LABORATORY

## METHOD

## ANALYSIS OF POTASSIUM PERFLUOROOCTANESULFONATE OR OTHER FLUOROCHEMICALS IN SERUM EXTRACTS USING HPLC-ELECTROSPRAY/MASS SPECTROMETRY

**Method Number:** ETS-8-5.2

**Adoption Date:** 03/01/99

**Revision Date:** 2/1/01

Author: Lisa Clemen, Kris Hansen

Approved By:

| | |
|---|---|
| Laboratory Manager | 02/01/01 Date |
| Group Leader | 02/01/01 Date |
| Technical Reviewer | 02-01-01 Date |

Exact Copy of Original
KdW 8/28/01
Initial Date

## 1.0 SCOPE AND APPLICATION

**1.1 Scope:** This method describes the analysis of serum extracts for fluorochemical surfactants using HPLC-electrospray/mass spectrometry.

**1.2 Applicable Compounds:** Fluorochemical surfactants or other fluorinated compounds, or other ionizable compounds.

**1.3 Matrices:** Rabbit, rat, bovine, monkey, and human serum, or other fluids as designated in the validation report.

## 2.0 Summary of Method

2.1 Although supported by a validation for most commonly used matrices, this is a performance-based method. Careful attention should be paid to method QC as there is great variability in sera. This method describes the analysis of fluorochemical surfactants extracted from serum or other fluids, using HPLC-electrospray/mass spectrometry, or similar system as appropriate. The analysis is performed by monitoring a single ion characteristic of a particular fluorochemical, such as the perfluorooctanesulfonate (PFOS) anion, m/z= 499. Additionally, samples may be analyzed using a tandem mass spectrometer to further verify the identity of a compound by detecting daughter ions of the parent ion.

## 3.0 Definitions

3.1 **Atmospheric Pressure Ionization (API):** The Micromass Quattro II and Ultima triple quadrupole systems allow for various methods of ionization by utilizing various sources, probes, and interfaces. These include but are not limited to: Electrospray Ionization (ESI), Atmospheric Pressure chemical Ionization (APcI), Thermospray, etc. The ionization process in these techniques occurs at atmospheric pressure (i.e., not under a vacuum).

3.2 **Electrospray Ionization (ES, ESI):** a method of ionization performed at atmospheric pressure, whereby ions in solution are transferred to the gas phase via tiny charged droplets. These charged droplets are produced by the application of a strong electrical field.

3.3 **Mass Spectrometry, Mass Spectrometer (MS), Tandem Mass Spectrometer (MS/MS):** The API Quattro II and Ultima triple quadrupole systems are equipped with quadrupole mass selective detectors. Ions are selectively discriminated by mass to charge ratio (m/z) and subsequently detected. A single MS may be employed for ion detection or a series (MS/MS) for more specific fragmentation information.

3.4 **Conventional vs. Z-spray probe interface:** The latest models of Micromass triple quadrupole systems (post 1998) utilize a "Z-spray" conformation. The spray emitted from a probe is orthogonal to the cone aperture. In the conventional conformation it is aimed directly at the cone aperture, after passing through a tortuous pathway in the counter electrode. Though the configuration is different, the methods of operation, cleaning, and maintenance are the same. However, Z-spray components and conventional components are not compatible with one another, but only with similar systems (i.e., Z-spray components are compatible with some other Z-spray systems, etc.)

3.5 **Mass Lynx Software:** System software designed for the specific operation of these Quattro II triple quadrupole systems. Currently MassLynx has Windows 95 and WindowsNT 4.0 versions. All versions are similar. For more details see the manual specific to the instrument (Micromass Quattro II or Ultima triple quadrupole MassLynx or MassLynx NT User's Guide).

## 4.0 Warnings and Cautions

### 4.1 Health and Safety Warnings:

4.1.1 Use caution with the voltage cables for the probe. When engaged, the probe employs a voltage of approximately 5000 Volts.

4.1.2 When handling samples or solvents wear appropriate protective gloves, eyewear, and clothing.

**4.2 Cautions:**

4.2.1 Do not operate solvent pumps above capacity of 400 bar (5800 psi) back pressure. If the back pressure exceeds 400 bar, the HPLC will initiate automatic shutdown.

4.2.2 Do not run solvent pumps to dryness.

## 5.0 INTERFERENCES

5.1 To minimize interferences when analyzing samples, Teflon should not be used for sample storage or any part of instrumentation that comes in contact with the sample or extract.

## 6.0 EQUIPMENT

6.1 Equipment listed below may be modified in order to optimize the system. Document any modifications in the raw data as method deviations.

6.1.1 Micromass Quattro II or Ultima triple quadrupole Mass Spectrometer equipped with an electrospray ionization source

6.1.2 HP1100 or Agilent low pulse solvent pumping system, solvent degasser, column compartment, and autosampler

## 7.0 SUPPLIES AND MATERIALS

**7.1 Supplies**

7.1.1 High purity grade nitrogen gas regulated to approximately 100 psi (House air or nitrogen system)

7.1.2 HPLC analytical column, specifics to be determined by the analyst and documented in the raw data.

7.1.3 Capped autovials and capped 15 mL centrifuge tubes

## 8.0 REAGENTS AND STANDARDS

**8.1 Reagents**

8.1.1 Methanol, HPLC grade or equivalent

8.1.2 Milli-Q™ water, all water used in this method should be Milli-Q™ water or equivalent, and may be provided by a Milli-Q TOC Plus system or other vendor

8.1.3 Ammonium acetate, reagent grade or equivalent

**8.2 Standards**

8.2.1 Typically two method blanks, two matrix blanks, and eighteen matrix standards are prepared during the extraction procedure. See ETS-8-4.2.

## 9.0 Sample Handling

9.1 Fresh matrix standards are prepared with each analysis. Extracted standards and samples are stored in capped autovials or capped 15 mL centrifuge tubes until analysis.

9.2 If analysis will be delayed, extracted standards and samples can be refrigerated at approximately 4° C, or at room temperature, until analysis can be performed.

## 10.0 Quality Control

### 10.1 Solvent Blanks, Method Blanks and Matrix Blanks

10.1.1 Solvent blanks, method blanks and matrix blanks are prepared and analyzed at least once during the course of the study to determine if contamination occurred during sample prep.

10.1.2 Analyze at least one solvent blank prior to each calibration curve.

10.1.3 Matrix blanks should be analyzed with each sample list that includes undiluted extracts.

### 10.2 Matrix Spikes

10.2.1 If curves and method QC are prepared in a surrogate matrix (e.g. curves in rabbit sera, samples are monkey sera), matrix spikes and matrix spike duplicates are prepared in blank sample matrix (e.g., monkey sera) and analyzed to verify extraction efficiency.

10.2.2 If curves and method QC are prepared in the same matrix as samples, no additional matrix spikes are required.

### 10.3 Continuing Calibration Verifications (CCVs)

10.3.1 Continuing calibration verifications are analyzed to verify the continued accuracy of the calibration curve.

10.3.2 Analyze two calibration standards (one at each of 2 levels) after every one to ten samples, with a minimum of two per batch and always finishing an injection sequence with at least two calibration standards.

## 11.0 Calibration and Standardization

11.1 Analyze the extracted matrix calibration standards prior to each set of extracts. The curve will be plotted by linear regression, weighted 1/x, not forced through zero, using MassLynx or other suitable software.

11.2 If the curve does not meet requirements, perform routine maintenance, reextract samples, or reanalyze the standard curve.

11.3 For purposes of accuracy when quantitating levels of analyte at the limits of the curve range, it may be necessary to use either the low end or the high end of the calibration curve rather than the full range of the standard curve. Example: when attempting to quantitate approximately 10 ppb of analyte, it may be beneficial to generate a calibration curve consisting of the standards from 5 ppb to 100 ppb rather than the full range of the curve (5 ppb to 1000 ppb). This will reduce inaccuracy attributed to linear regression weighting of

high concentration standards. It is also acceptable to break the linear range into a low curve and a high curve. If this is done, no more than one point should be used in common between the curves. For example, the low curve may include the following points: 1, 5, 25, 100, 250 ppb and the high curve may include the points: 250, 500, 750, 1000, 1250 ppb.

## 12.0 PROCEDURES

### 12.1 Acquisition Set up

12.1.1 On the MassLynx main page, set up a sample list name. Save the list as instrument designator letter, last 2 digits of test year-mo-day, and a letter that will increase through the alphabet with each additional list for that day.

Example Sample List: IYYMMDDa or D010712a

I=instrument name (D for "Davey")
YY=year of test (01)
MM=month of test (07)
DD=day of test (12)
a=first sample list (run) of the day (the next sample list will end with 'b,' the next 'c' and so on.)

12.1.2 Assign a filename using the instrument designator letter, the last 2 digits of year-mo-day, and a 3-digit sequential file number that starts with 1 and increases by one for each filename.

Example File Name: IYYMMDD### or D010712001

I=instrument name (D for "Davey")
YY=year of test (01)
MM=month of test (07)
DD=day of test (12)
###=3-digit sequential file number starting with 1 through 999 (001)

Also, as part of the sample list, assign a method (MS) for acquiring, an inlet file, a bottle number, an injection volume and sample descriptions.

12.1.3 To create a method, click on Method Editor button in the MS Status Pane and select SIR (Single Ion Recording) or MRM (Multiple Reaction Monitoring). Set Ionization Mode as appropriate and mass to 499 or other appropriate masses. Also set the acquisition start and stop times. Save acquisition method. If MS/MS instruments are employed, additional product ion fragmentation information may be collected. See Micromass MassLynx GUIDE TO DATA ACQUISITION for additional information and MRM.

12.1.4 Typically the analytical batch run sequence begins with solvent blanks and a set of extracted matrix standards.

12.1.5 Sample extracts are analyzed with two CCVs injected every one to ten samples. Solvent blanks should be analyzed periodically to monitor possible analyte carryover and are not considered sample extracts but may be included as such.

**12.2 Using the HPLC**

**12.2.1** Set up sample tray according to the sample list prepared in Section **12.1.1.**

**12.2.2** Set-up the HPLC to the following conditions or at conditions the analyst considers appropriate for optimal response. Record actual conditions in the instrument logbook:

**12.2.2.1** Sample size = 10 µL injection

**12.2.2.2** Inject/sample = 1

**12.2.2.3** Cycle time = 10.0 minutes

**12.2.2.4** Flow rate = 300 µL/min

**12.2.2.5** Mobile Phase (program)

| Time | MeOH | 2.0 mM Ammonium acetate (in $H_2O$) |
|---|---|---|
| 0.00 min. | 10% | 90% |
| 1.00 min. | 10% | 90% |
| 5.50 min. | 95% | 5% |
| 7.50 min. | 95% | 5% |
| 8.00 min. | 10% | 90% |

**12.3 Instrument Set-up**

**12.3.1** Refer to **ETS-9-24** for more details.

**12.3.2** Check the solvent level in reservoirs and refill if necessary.

**12.3.3** Check the stainless steel capillary at the end of the probe. Use an eyepiece to check the tip. The tip should be flat with no jagged edges. If the tip is found to be unsatisfactory, disassemble the probe and replace the stainless steel capillary. The probe should be checked weekly.

**12.3.4** Set HPLC pump to "On". Set the flow to 10 - 500 µL/min or as appropriate. Observe droplets coming out of the tip of the probe.

**12.3.5** Turn on the nitrogen. A fine mist should be expelled with no nitrogen leaking around the tip of the probe. Readjust the tip of the probe if no mist is observed.

**12.3.6** The instrument uses these parameters at the following settings. These settings may change in order to optimize the response:

**12.3.6.1** Drying gas 250-400 liters/hour

**12.3.6.2** ESI nebulizing gas 10-15 liters/hour

**12.3.6.3** HPLC constant flow mode, flow rate 10 – 500 µL/min

**12.3.6.4** Pressure <400 bar (This parameter is not set, it is a guide to ensure the HPLC is operating correctly.)

**12.3.7** Carefully guide the probe into the opening. Insert probe until it will not go any further. Connect the voltage cables to the probe.

12.3.8 Print the tune page, MS file, HPLC parameters, sample list and the Microsoft Word summary page and store in the study binder with a copy taped into the instrument log.

12.3.9 Click on start button in the MassLynx main page (this may vary among MassLynx versions, see appropriate MassLynx USER'S GUIDE). Ensure start and end sample number includes all samples to be analyzed.

## 13.0 Data Analysis and Calculations

### 13.1 Calculations:

13.1.1 Calculate matrix spike percent recoveries using the following equation:

$$\%\ Recovery = \frac{Observed\ Result - Matrix\ Blank\ Result}{Spiking\ Level} \times 100$$

13.1.2 Calculate percent difference using the following equation:

$$\%\ Difference = \frac{Expected\ Conc. - Calculated\ Conc.}{Expected\ Conc.} \times 100$$

13.1.4 Calculate actual concentration of PFOS, or other fluorochemical, in matrix (µg/mL):

$$\frac{(Conc.\ of\ PFOS\ Calc.\ from\ Std.\ Curve\ (ng/mL) \times Dilution\ Factor)}{\left\{\frac{(Initial\ Volume\ of\ Matrix\ (mL) + mL\ of\ Surrogate\ Standard)}{Final\ Volume\ (mL)}\right\}} \times \frac{1\ \mu g}{1000\ ng}$$

## 14.0 Method Performance

14.1 Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are method, analyte, and matrix specific. Please see **ETS-8-4.2, Attachment B,** for a listing of current validated MDL and LOQ values.

### 14.2 Solvent Blanks, Method Blanks, and Matrix Blanks

14.2.1 Solvent blanks, method blanks, and matrix blanks values must be below the lowest active standard in the calibration curve.

### 14.3 Calibration Curves

14.3.1 The coefficient of determination value for the calibration curve must be 0.990 or better.

14.3.2 All active calibration curve points must be within 25% of the theoretical value with the exception of the LOQ point, which may deviate up to 30%.

14.3.3 Calibration standards with peak areas less than two times the curve matrix blank must be deactivated to disqualify a data range that may be affected by background levels of the analyte.

14.3.4 Low or high curve points may be deactivated to optimize a linear range appropriate to the data.

14.3.5 Not including low or high points dropped to optimize the linear range, curve points may be deactivated if they deviate more than 25% from the theoretical value when the curve is evaluated over a linear range appropriate to the data.

14.3.6 One point below the LOQ may remain active even if it deviates more than ±30% or has a peak area less than two times the matrix blank; however, the LOQ will be defined at the lowest point with acceptable deviation.

14.3.7 A valid calibration curve must contain at least 5 active points above and including the LOQ.

**14.4 Matrix Spikes**

14.4.1 The average matrix spike percent recoveries should be within ± 30% of the spiked concentration. Recoveries outside of this range should be discussed in the report.

**14.5 Continuing Calibration Verifications (CCVs)**

14.5.1 Continuing calibration samples within the linear range of the run must show a percent recovery within ±25% of the spiked concentration. If a CCV is outside of this recovery, subsequent data should not be accepted. Acceptable data must be bracketed by the curve and passing CCVs.

14.6 If criteria listed in this method performance section isn't met, maintenance may be performed on the system and samples reanalyzed or other actions as determined by the analyst. Document all actions in the appropriate logbook.

14.7 If data are to be reported when performance criteria have not been met, the data must be footnoted on tables and discussed in the text of the report.

## 15.0 Pollution Prevention and Waste Management

15.1 Sample extract waste and flammable solvent is disposed in high BTU containers, and glass pipette waste is disposed in broken glass containers located in the laboratory.

## 16.0 Records

16.1 The first page of each data packet generated for a study must have the following information included either in the header, in the footer or hand written on the page: study or project number, instrument, sample matrix and time point, date, and analyst.

16.2 A data packet includes the following: data review summary form, MassLynx quantify compound summary report for each target analyte, quantify calibration report for each target analyte (curve), method report, Word document listing set-up parameters, tune

method report, MassLynx scanning method report, HPLC method report, sample list, and quantity sample report (chromatogram).

**16.3** For each analysis, after printing the tune method report, Word document listing, set-up parameters, MassLynx scanning method report, and sample list, copy and tape into the instrument runlog. The original is maintained in the data packet.

**16.4** On each page of the quantify compound report, quantify calibration report (curve), and quantify sample report (chromatogram), the following information must be included either in the header, the footer, or hand written on the page: study or project number, instrument, method, calibration (the method and calibration are usually assigned the same name), analyst, and date.

**16.5** The analyst must date and initial the first page in a packet as long as their initials and date are electronically included on each page. If initials and date are not electronically included, they must date and initial each page.

**16.6** Summarize data using suitable software (e.g., Excel) for inclusion in the final report. See **Attachment A** for an example of a summary spreadsheet.

**16.7** Back up electronic data to appropriate medium. Record the file name and location of backup electronic data in instrument log book.

## 17.0 Tables, Diagrams, Flowcharts, and Validation Data

**17.1** Attachment A: Data summary spreadsheet.

## 18.0 References

**18.1** FACT-M-4.1, "Extraction of Potassium Perfluorooctanesulfonate or Other Fluorochemical compounds from Serum for Analysis Using HPLC-Electrospray/Mass Spectrometry

**18.2** ETS-9-24.0, "Operation and Maintenance of the Micromass Atmospheric Pressure Ionization/Mass Spectrometer Quattro II triple quadrupole Systems"

**18.3** The validation report associated with this method is **ETS-8-4.0 & 5.0-V-1.**

## 19.0 Affected Documents

**19.1** ETS-8-4.2, "Extraction of Potassium Perfluorooctanesulfonate or Other Fluorochemical Compounds from Serum for Analysis Using HPLC-Electrospray/Mass Spectrometry"

## 20.0 REVISIONS

| Revision Number. | Reason For Revision | Revision Date |
|---|---|---|
| 1 | Section 6.1.2 Clarification of HP1100 system components.<br>Section 11.1 Average of two curves, not standard values, are used for plotting linear regression and added the 1/x weighting of the curve.<br>Section 12.2.2.4 Clarification of solvent ramp.<br>Section 17.1 Changed from attachment B to A. | 04/02/99 |
| 2 | 10.1 Clarified when blanks are run.<br>10.2 Added instructions for when surrogate matrix is used.<br>10.3 Specify requirements for CCVs.<br>11.1 Requires only a calibration curve before the samples.<br>11.2 Clarify what to do if curve does not meet requirements.<br>11.3 Allow to truncate the curve.<br>12.1.1 Clarify sample list ID.<br>12.1.3 Clarify typical run.<br>12.2 Changes to mobile phase gradient and specify flow rate.<br>14.3 Change acceptable limits. Add specifics for acceptance of calibration curve.<br>14.3.3 When to deactivate calibration standards based on blank response.<br>14.3.5 When to deactivate calibration standards within the linear range.<br>14.4 Modifies evaluation and use of matrix spikes.<br>14.5 Describes evaluation and use of CCVs.<br>14.5.1 Evaluation of CCVs.<br>16.0 Add requirements for records and documentation. | |

# Laboratory Study #

Study:
Test Material:
Matrix/Final Solvent:
Method/Revision:
Analytical Equipment System Number:
Instrument Software/Version:
Filename:
R-Squared Value:
Slope:
Y Intercept:
Date of Extraction/Analyst:
Date of Analysis/Analyst:

| Group Dose | Sample# | Concentration ug/mL | Initial Vol. mL | Dilution Factor | Final Conc. ug/mL |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Slope:** Taken from linear regression equation.
**Group/Dose:** Taken from the study folder.
**Sample#:** Taken from the study folder.
**Concentration (ug/mL):** Taken from the MassLynx integration summary.
**Initial Volume (mL):** Taken from the study folder.
**Dilution Factor:** Taken from the study folder.
**Final Conc. (ug/mL):** Calculated by dividing the initial volume from the concentration

3M Medical Department Study: T-6889.6

Analytical Report: FACT TOX-164
LIMS E00-2738

# Appendix D: Dose Confirmation Analyses and Data Summary Tables

**Table 12. Dose Confirmation Analyses – Extracted 11/17/00, Analyzed 11/27/00**

| Group Dose | Sample # | Concentration of PFOA ug/mL or % Rec | Expected Conc of PFOA ug/mL* | % Recovery | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|
| Method Blk | 111700-WBlk-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | 111700-WBlk-2 | <LOQ (10 ng/mL) | NA | | | |
| | 111700-WBlk-3 | <LOQ (10 ng/mL) | NA | | | |
| QC | B-418-020-A-C-100ppb-MS | 0.0822 | 0.0979 | 84% | 86% | 4% |
| | B-418-020-A-C-100ppb-MSD | 0.0855 | 0.0979 | 87% | | |
| Stability Day 0 11/10/00 | B-418-020-A-C-0.5 mL | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-A-0.5 mL | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-0.5 mL | <LOQ (10 ng/mL) | NA | | | |
| Stability Day 0 11/10/00 | B-418-020-A-A-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-A-2 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-B-A-1 | 191 | 200 | 95% | 95% | 1% |
| | B-418-020-B-A-2 | 189 | 200 | 95% | | |
| | B-418-020-C-A-1 | 485 | 600 | 81% | 77% | 10% |
| | B-418-020-C-A-2 | 438 | 600 | 73% | | |
| | B-418-020-D-A-1 | 1809 | 2000 | 90% | 93% | 5% |
| | B-418-020-D-A-2 | 1893 | 2000 | 95% | | |
| | B-418-020-E-A-1 | 5579 | 6000 | 93% | 99% | 13% |
| | B-418-020-E-A-2 | 6350 | 6000 | 106% | | |
| Stability Day 10 11/10/00 | B-418-020-A-D10-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-D10-2 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-B-D10-1 | 177 | 200 | 88% | 88% | 1% |
| | B-418-020-B-D10-2 | 175 | 200 | 88% | | |
| | B-418-020-C-D10-1 | 461 | 600 | 77% | 76% | 2% |
| | B-418-020-C-D10-2 | 451 | 600 | 75% | | |
| | B-418-020-D-D10-1 | 1732 | 2000 | 87% | 86% | 2% |
| | B-418-020-D-D10-2 | 1695 | 2000 | 85% | | |
| | B-418-020-E-D10-1 | 5825 | 6000 | 97% | 95% | 4% |
| | B-418-020-E-D10-2 | 5614 | 6000 | 94% | | |
| Concentration 11/10/00 | B-418-020-A-C-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-C-2 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-B-C-1 | 179 | 200 | 90% | 87% | 5% |
| | B-418-020-B-C-2 | 170 | 200 | 85% | | |
| | B-418-020-C-C-1 | 494 | 600 | 82% | 81% | 3% |
| | B-418-020-C-C-2 | 478 | 600 | 80% | | |
| | B-418-020-D-C-1 | 1820 | 2000 | 91% | 90% | 1% |
| | B-418-020-D-C-2 | 1800 | 2000 | 90% | | |
| | B-418-020-E-C-1 | 6140 | 6000 | 102% | 101% | 2% |
| | B-418-020-E-C-2 | 6026 | 6000 | 100% | | |

* Information was obtained from chain of custody forms accompanying samples.

3M Medical Department Study: T-6889.6

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LIMS E00-2738

**Table 13. Dose Confirmation Analyses – Extracted 11/27/00, Analyzed 11/28/00**

| Group Dose | Sample # | Concentration of PFOA ug/mL or % Rec | Expected Conc of PFOA ug/mL* | % Recovery | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|
| Method Blk | 112700-WBlk-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | 112700-WBlk-2 | <LOQ (10 ng/mL) | NA | | | |
| | 112700-WBlk-3 | <LOQ (10 ng/mL) | NA | | | |
| QC | B-418-020-A-C-100ppb-MS | 0.0864 | 0.0979 | 88% | 88% | 1% |
| | B-418-020-A-C-100ppb-MSD | 0.0856 | 0.0979 | 87% | | |
| Stability Day 0 11/10/00 | B-418-020-A-C-0.5 mL | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-A-0.5 mL | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-0.5 mL | <LOQ (10 ng/mL) | NA | | | |
| Stability Day 0 11/10/00 | B-418-020-A-A-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-A-2 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-B-A-1 | 155 | 200 | 78% | 76% | 6% |
| | B-418-020-B-A-2 | 147 | 200 | 73% | | |
| | B-418-020-C-A-1 | 489 | 600 | 82% | 80% | 4% |
| | B-418-020-C-A-2 | 468 | 600 | 78% | | |
| | B-418-020-D-A-1 | 1788 | 2000 | 89% | 90% | 0% |
| | B-418-020-D-A-2 | 1793 | 2000 | 90% | | |
| | B-418-020-E-A-1[A] | 11183 | 6000 | 186%[A] | 187%[A] | 1% |
| | B-418-020-E-A-2[A] | 11256 | 6000 | 188%[A] | | |
| Stability Day 10 11/10/00 | B-418-020-A-D10-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-D10-2 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-B-D10-1 | 138 | 200 | 69% | 74% | 13% |
| | B-418-020-B-D10-2 | 157 | 200 | 78% | | |
| | B-418-020-C-D10-1 | 464 | 600 | 77% | 80% | 7% |
| | B-418-020-C-D10-2 | 496 | 600 | 83% | | |
| | B-418-020-D-D10-1 | 1560 | 2000 | 78% | 83% | 12% |
| | B-418-020-D-D10-2 | 1758 | 2000 | 88% | | |
| | B-418-020-E-D10-1 | 5553 | 6000 | 93% | 96% | 7% |
| | B-418-020-E-D10-2 | 5957 | 6000 | 99% | | |
| Concentration 11/10/00 | B-418-020-A-C-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-A-C-2 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-B-C-1 | 158 | 200 | 79% | 81% | 4% |
| | B-418-020-B-C-2 | 165 | 200 | 82% | | |
| | B-418-020-C-C-1 | 452 | 600 | 75% | 75% | 2% |
| | B-418-020-C-C-2 | 443 | 600 | 74% | | |
| | B-418-020-D-C-1 | 1741 | 2000 | 87% | 91% | 8% |
| | B-418-020-D-C-2 | 1883 | 2000 | 94% | | |
| | B-418-020-E-C-1 | 5376 | 6000 | 90% | 90% | 1% |
| | B-418-020-E-C-2 | 5441 | 6000 | 91% | | |

[A] = Sample re-extracted on 01/23/01 to confirm recovery. Recovery was not confirmed, considered an outlier.
* Information was obtained from chain of custody forms accompanying samples.

3M Medical Department Study: T-6889.6

Analytical Report: FACT TOX-164
LIMS E00-2738

**Table 14. Dose Confirmation Analyses – Extracted 01/17/01, Analyzed 01/23/01**

| Group Dose | Sample # | Concentration of PFOA ug/mL or % Rec | Expected Conc of PFOA ug/mL* | % Recovery | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|
| Method Blk | 011701-WBlk-1-1 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | 011701-WBlk-1-2 | <LOQ (10 ng/mL) | NA | | | |
| Stability Day 0 11/10/00 | B-418-020-E-A-1 | 5466 | 6000 | 91% | 87% | 9% |
| | B-418-020-E-A-2 | 5014 | 6000 | 84% | | |

* Information was obtained from chain of custody forms accompanying samples.

**Table 15. TOX 164 Data Summary of PFOA Concentration—Rat Serum (µg/mL)**

| | Gender/ Timepoint | PFOA Conc. Average ± SD |
|---|---|---|
| Group 1 0.0 mg/kg/day | Female Lactation Day 22 | <LOQ (0.00528 ug/mL) n=3 |
| | Male End of cohabitation | 0.0344 ± 0.0148 n=3 |
| Group 4 10 mg/kg/day | Female Lactation Day 22 | 0.370 ± 0.0805 n=10 |
| | Male End of cohabitation | 51.1 ± 9.30 n=10 |
| Group 5 30 mg/kg/day | Female Lactation Day 22 | 1.02 ± 0.425 n=10 |
| | Male End of cohabitation | 45.3 ± 12.6 n=10 |

3M Medical Department Study: T-6889.6

Analytical Report: FACT TOX-164
LIMS E00-2738

## Appendix E: Data Spreadsheets

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus# 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: | FACT-TOX-164, Argus 418-020, Oral (Gavage) Two-Generation Reproduction Study of APFO in Rats |
| Product Number(Test Substance): | PFOA |
| Matrix: | Concentration Samples |
| Method/Revision: | ETS-8-4.1 & ETS-8-5.1 |
| Analytical Equipment System Number: | Davey 070799 |
| Instrument Software/Version: | Massiyax 3.4 |
| Filename: | See Below |
| R-Squared Value: | See Attachment |
| Slope: | See Attachment |
| Y-Intercept: | See Attachment |
| Dates of Extraction/Analyst: | 11/17/00 RWW |
| Dates of Analysis/Analyst: | 11/27/00 MMH |
| Date of Data Reduction/Analyst: | 11/28/00 MMH |

**Sample Data**

**DOSE VERIFICATION SAMPLES**

| Group Dose | Sample # | Extraction Vol. mL | Surrogate Verified | Extraction Dilution Factor | PFOA Dilution Factor | PFOA Conc. ug/mL | Filename | Concentration of PFOA ug/mL or % Rec | Target Conc. of PFOA ug/mL | % Recovery or % Target Conc. | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Method Blk | 111700-WBlk-1 | 1 | NA | 1.25 | 1 | 0.00 | D001127015 | <LOQ (10 ng/mL) | NA | | | |
| | 111700-WBlk-2 | 1 | NA | 1.25 | 1 | 0.00 | D001127016 | <LOQ (10 ng/mL) | NA | | | |
| | 111700-WBlk-3 | 1 | NA | 1.25 | 1 | 0.00 | D001127017 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| QC | B-418-020-A-C-100ppb-MS | 1 | NA | 1.25 | 1 | 65.79 | D001127065 | 0.0822 | 0.0979 | 84% | | |
| | B-418-020-A-C-100ppb-MSD | 1 | NA | 1.25 | 1 | 68.40 | D001127066 | 0.0855 | 0.0979 | 87% | 86% | 4% |
| Stability Day 0 11/10/2000 | B-418-020-A-C-0.5 mL | 1 | NA | 1.25 | 2 | 0.00 | D001127018 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-0.5 mL | 1 | NA | 1.25 | 2 | 0.00 | D001127019 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-0.5 mL | 1 | NA | 1.25 | 2 | 0.00 | D001127022 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| Stability Day 0 11/10/2000 | B-418-020-A-A-1 | 1 | NA | 1.25 | 2001 | 0.00 | D001127025 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-2 | 1 | NA | 1.25 | 2001 | 0.00 | D001127026 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-A-1 | 1 | NA | 1.25 | 2001 | 76.24 | D001127033 | 191 | 200 | 95% | | |
| | B-418-020-B-A-2 | 1 | NA | 1.25 | 2001 | 75.72 | D001127036 | 189 | 200 | 95% | 95% | 1% |
| | B-418-020-C-A-1 | 1 | NA | 1.25 | 5001 | 77.54 | D001127043 | 485 | 600 | 81% | | |
| | B-418-020-C-A-2 | 1 | NA | 1.25 | 5001 | 70.01 | D001127044 | 438 | 600 | 73% | 77% | 10% |
| | B-418-020-D-A-1 | 1 | NA | 1.25 | 20001 | 72.35 | D001127051 | 1809 | 2000 | 90% | | |
| | B-418-020-D-A-2 | 1 | NA | 1.25 | 20001 | 75.73 | D001127052 | 1893 | 2000 | 95% | 93% | 5% |
| | B-418-020-E-A-1 | 1 | NA | 1.25 | 50001 | 89.27 | D001127059 | 5579 | 6000 | 93% | | |
| | B-418-020-E-A-2 | 1 | NA | 1.25 | 50001 | 101.60 | D001127060 | 6350 | 6000 | 106% | 99% | 13% |
| Stability Day 10 11/10/2000 | B-418-020-A-D10-1 | 1 | NA | 1.25 | 2001 | 0.00 | D001127029 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-2 | 1 | NA | 1.25 | 2001 | 0.00 | D001127030 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-D10-1 | 1 | NA | 1.25 | 2001 | 70.76 | D001127037 | 177 | 200 | 88% | | |
| | B-418-020-B-D10-2 | 1 | NA | 1.25 | 2001 | 69.98 | D001127038 | 175 | 200 | 88% | 88% | 1% |
| | B-418-020-C-D10-1 | 1 | NA | 1.25 | 5001 | 73.80 | D001127045 | 461 | 600 | 77% | | |
| | B-418-020-C-D10-2 | 1 | NA | 1.25 | 5001 | 72.13 | D001127046 | 451 | 600 | 75% | 76% | 2% |
| | B-418-020-D-D10-1 | 1 | NA | 1.25 | 20001 | 69.27 | D001127053 | 1732 | 2000 | 87% | | |
| | B-418-020-D-D10-2 | 1 | NA | 1.25 | 20001 | 67.79 | D001127054 | 1695 | 2000 | 85% | 86% | 2% |
| | B-418-020-E-D10-1 | 1 | NA | 1.25 | 50001 | 93.20 | D001127061 | 5825 | 6000 | 97% | | |
| | B-418-020-E-D10-2 | 1 | NA | 1.25 | 50001 | 89.83 | D001127064 | 5614 | 6000 | 94% | 95% | 4% |
| Concentration 11/10/2000 | B-418-020-A-C-1 | 1 | NA | 1.25 | 2001 | 0.00 | D001127023 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-C-2 | 1 | NA | 1.25 | 2001 | 0.00 | D001127024 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-C-1 | 1 | NA | 1.25 | 2001 | 71.72 | D001127031 | 179 | 200 | 90% | | |
| | B-418-020-B-C-2 | 1 | NA | 1.25 | 2001 | 67.94 | D001127032 | 170 | 200 | 85% | 87% | 5% |
| | B-418-020-C-C-1 | 1 | NA | 1.25 | 5001 | 79.10 | D001127039 | 494 | 600 | 82% | | |
| | B-418-020-C-C-2 | 1 | NA | 1.25 | 5001 | 76.41 | D001127040 | 478 | 600 | 80% | 81% | 3% |
| | B-418-020-D-C-1 | 1 | NA | 1.25 | 20001 | 72.80 | D001127047 | 1820 | 2000 | 91% | | |
| | B-418-020-D-C-2 | 1 | NA | 1.25 | 20001 | 71.98 | D001127050 | 1800 | 2000 | 90% | 90% | 1% |
| | B-418-020-E-C-1 | 1 | NA | 1.25 | 50001 | 98.24 | D001127057 | 6140 | 6000 | 102% | | |
| | B-418-020-E-C-2 | 1 | NA | 1.25 | 50001 | 96.42 | D001127058 | 6026 | 6000 | 100% | 101% | 2% |

PFOA/POAA = Perfluorooctanoate

Center Letter
A = 0 mg/mL
B = 0.2 mg/mL
C = 0.6 mg/mL
D = 2 mg/mL
E = 6 mg/mL

Date Entered/By: 01/15/01 LAC
Date Verified/ By: 01/16/01 kjh

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus# 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: | FACT-TOX-164, Argus 418-020, Oral (Gavage) Two-Generation Reproduction Study of APFO in Rats |
| Product Number(Test Substance): | PFOA |
| Matrix: | Concentration Samples |
| Method/Revision: | ETS-8-4.1 & ETS-8-5.1 |
| Analytical Equipment System Number: | Davey 070799 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Attachments |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 11/17/00 RWW |
| Dates of Analysis/Analyst: | 11/27/00 MMH |
| Date of Data Reduction/Analyst: | 11/28/00 MMH |

**Sample Data**

**DOSE VERIFICATION SAMPLES**

| Group Dose | Sample # | PFOA Conc. ug/mL | Concentration of PFOA ug/mL, or % Rec | Target Conc. of PFOA ug/mL | % Recovery or % Target Conc. | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|---|
| Method Blk | 111700-WBlk-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | 111700-WBlk-2 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | 111700-WBlk-3 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| QC | B-418-020-A-C-100ppb-MS | 65.8 | 0.0822 | 0.0979 | 84% | | |
| | B-418-020-A-C-100ppb-MSD | 68.4 | 0.0855 | 0.0979 | 87% | 86% | 4% |
| Stability Day 0 11/10/00 | B-418-020-A-C-0.5 mL | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-0.5 mL | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-0.5 mL | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| Stability Day 0 11/10/00 | B-418-020-A-A-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-2 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-A-1 | 76.2 | 190.6953 | 200 | 95% | | |
| | B-418-020-B-A-2 | 75.7 | 189.3947 | 200 | 95% | 95% | 1% |
| | B-418-020-C-A-1 | 77.5 | 484.7219 | 600 | 81% | | |
| | B-418-020-C-A-2 | 70.0 | 437.6500 | 600 | 73% | 77% | 10% |
| | B-418-020-D-A-1 | 72.4 | 1808.8404 | 2000 | 90% | | |
| | B-418-020-D-A-2 | 75.7 | 1893.3447 | 2000 | 95% | 93% | 5% |
| | B-418-020-E-A-1 | 89.3 | 5579.487 | 6000 | 93% | | |
| | B-418-020-E-A-2 | 102 | 6350.127 | 6000 | 106% | 99% | 13% |
| Stability Day 10 11/10/00 | B-418-020-A-D10-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-2 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-D10-1 | 70.8 | 176.9885 | 200 | 88% | | |
| | B-418-020-B-D10-2 | 70.0 | 175.0375 | 200 | 88% | 88% | 1% |
| | B-418-020-C-D10-1 | 73.8 | 461.3423 | 600 | 77% | | |
| | B-418-020-C-D10-2 | 72.1 | 450.9027 | 600 | 75% | 76% | 2% |
| | B-418-020-D-D10-1 | 69.3 | 1731.8366 | 2000 | 87% | | |
| | B-418-020-D-D10-2 | 67.8 | 1694.8347 | 2000 | 85% | 86% | 2% |
| | B-418-020-E-D10-1 | 93.2 | 5825.1165 | 6000 | 97% | | |
| | B-418-020-E-D10-2 | 89.8 | 5614.4873 | 6000 | 94% | 95% | 4% |
| Concentration 11/10/00 | B-418-020-A-C-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-C-2 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-C-1 | 71.7 | 179.3897 | 200 | 90% | | |
| | B-418-020-B-C-2 | 67.9 | 169.9349 | 200 | 85% | 87% | 5% |
| | B-418-020-C-C-1 | 79.1 | 494.4739 | 600 | 82% | | |
| | B-418-020-C-C-2 | 76.4 | 477.6580 | 600 | 80% | 81% | 3% |
| | B-418-020-D-C-1 | 72.8 | 1820.0910 | 2000 | 91% | | |
| | B-418-020-D-C-2 | 72.0 | 1799.5900 | 2000 | 90% | 90% | 1% |
| | B-418-020-E-C-1 | 98.2 | 6140.1228 | 6000 | 102% | | |
| | B-418-020-E-C-2 | 96.4 | 6026.3705 | 6000 | 100% | 101% | 2% |

PFOA/POAA = Perfluorooctanoate

Center Letter
A = 0 mg/mL
B = 0.2 mg/mL
C = 0.6 mg/mL
D = 2 mg/mL
E = 6 mg/mL

Date Entered/By: 01/15/01 LAC
Date Verified/ By: 01/16/01 kjh

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus# 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: | FACT-TOX-164, Argus 418-020, Oral (Gavage) Two-Generation Reproduction Study of APFO in Rats |
| Product Number(Test Substance): | PFOA |
| Matrix: | Concentration Samples |
| Method/Revision: | ETS-8-4.1 & ETS-8-5.1 |
| Analytical Equipment System Number: | Davey 070799 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Below |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 11/27/00 RWW |
| Dates of Analysis/Analyst: | 11/28/00 MMH |
| Date of Data Reduction/Analyst: | 11/29/00 MMH |

**Sample Data**

*DOSE VERIFICATION SAMPLES*

| Group Dose | Sample # | Extraction Vol. mL | Surrogate Verified | Extraction Dilution Factor | PFOA Dilution Factor | PFOA Conc. ng/mL | Filename | Concentration of PFOA ug/mL or % Rec | Target Conc. of PFOA ug/mL | % Recovery or % Target Conc. | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Method Blk. | 112700-WBlk-1 | 1 | NA | 1.25 | 1 | 0.00 | D001128015 | <LOQ (10 ng/mL) | NA | | | |
| | 112700-WBlk-2 | 1 | NA | 1.25 | 1 | 0.00 | D001128016 | <LOQ (10 ng/mL) | NA | | | |
| | 112700-WBlk-3 | 1 | NA | 1.25 | 1 | 0.00 | D001128017 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| QC | B-418-020-A-C-100ppb-MS | 1 | NA | 1.25 | 1 | 69.13 | D001128065 | 0.0864 | 0.0979 | 88% | | |
| | B-418-020-A-C-100ppb-MSD | 1 | NA | 1.25 | 1 | 68.44 | D001128066 | 0.0856 | 0.0979 | 87% | 88% | 1% |
| Stability Day 0 11/10/2000 | B-418-020-A-C-0.5 mL | 1 | NA | 1.25 | 2 | 0.00 | D001128018 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-0.5 mL | 1 | NA | 1.25 | 2 | 0.00 | D001128019 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-0.5 mL | 1 | NA | 1.25 | 2 | 0.00 | D001128022 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| Stability Day 0 11/10/2000 | B-418-020-A-A-1 | 1 | NA | 1.25 | 2001 | 0.00 | D001128025 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-2 | 1 | NA | 1.25 | 2001 | 0.00 | D001128026 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-A-1 | 1 | NA | 1.25 | 2001 | 62.10 | D001128033 | 155 | 200 | 78% | | |
| | B-418-020-B-A-2 | 1 | NA | 1.25 | 2001 | 58.73 | D001128036 | 147 | 200 | 73% | 76% | 6% |
| | B-418-020-C-A-1 | 1 | NA | 1.25 | 5001 | 78.28 | D001128043 | 489 | 600 | 82% | | |
| | B-418-020-C-A-2 | 1 | NA | 1.25 | 5001 | 74.90 | D001128044 | 468 | 600 | 78% | 80% | 4% |
| | B-418-020-D-A-1 | 1 | NA | 1.25 | 20001 | 71.52 | D001128051 | 1788 | 2000 | 89% | | |
| | B-418-020-D-A-2 | 1 | NA | 1.25 | 20001 | 71.73 | D001128052 | 1793 | 2000 | 90% | 90% | 0% |
| | B-418-020-E-A-1 | 1 | NA | 1.25 | 50001 | 178.92 | D001128059 | 11183 | 6000 | 186% A | | |
| | B-418-020-E-A-2 | 1 | NA | 1.25 | 50001 | 180.10 | D001128060 | 11256 | 6000 | 188% A | 187% | 1% |
| Stability Day 10 11/10/2000 | B-418-020-A-D10-1 | 1 | NA | 1.25 | 2001 | 0.00 | D001128029 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-2 | 1 | NA | 1.25 | 2001 | 0.00 | D001128030 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-D10-1 | 1 | NA | 1.25 | 2001 | 55.05 | D001128037 | 138 | 200 | 69% | | |
| | B-418-020-B-D10-2 | 1 | NA | 1.25 | 2001 | 62.61 | D001128038 | 157 | 200 | 78% | 74% | 13% |
| | B-418-020-C-D10-1 | 1 | NA | 1.25 | 5001 | 74.25 | D001128045 | 464 | 600 | 77% | | |
| | B-418-020-C-D10-2 | 1 | NA | 1.25 | 5001 | 79.37 | D001128046 | 496 | 600 | 83% | 80% | 7% |
| | B-418-020-D-D10-1 | 1 | NA | 1.25 | 20001 | 62.41 | D001128053 | 1560 | 2000 | 78% | | |
| | B-418-020-D-D10-2 | 1 | NA | 1.25 | 20001 | 70.32 | D001128054 | 1758 | 2000 | 88% | 83% | 12% |
| | B-418-020-E-D10-1 | 1 | NA | 1.25 | 50001 | 88.85 | D001128061 | 5553 | 6000 | 93% | | |
| | B-418-020-E-D10-2 | 1 | NA | 1.25 | 50001 | 95.31 | D001128064 | 5957 | 6000 | 99% | 96% | 7% |
| Concentration 11/10/2000 | B-418-020-A-C-1 | 1 | NA | 1.25 | 2001 | 0.00 | D001128023 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-C-2 | 1 | NA | 1.25 | 2001 | 0.00 | D001128024 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-C-1 | 1 | NA | 1.25 | 2001 | 63.23 | D001128031 | 158 | 200 | 79% | | |
| | B-418-020-B-C-2 | 1 | NA | 1.25 | 2001 | 65.86 | D001128032 | 165 | 200 | 82% | 81% | 4% |
| | B-418-020-C-C-1 | 1 | NA | 1.25 | 5001 | 72.23 | D001128039 | 452 | 600 | 75% | | |
| | B-418-020-C-C-2 | 1 | NA | 1.25 | 5001 | 70.86 | D001128040 | 443 | 600 | 74% | 75% | 2% |
| | B-418-020-D-C-1 | 1 | NA | 1.25 | 20001 | 69.62 | D001128047 | 1741 | 2000 | 87% | | |
| | B-418-020-D-C-2 | 1 | NA | 1.25 | 20001 | 75.31 | D001128050 | 1883 | 2000 | 94% | 91% | 8% |
| | B-418-020-E-C-1 | 1 | NA | 1.25 | 50001 | 86.01 | D001128057 | 5376 | 6000 | 90% | | |
| | B-418-020-E-C-2 | 1 | NA | 1.25 | 50001 | 87.05 | D001128058 | 5441 | 6000 | 91% | 90% | 1% |

PFOA/POAA = Perfluorooctanoate

A = Sample re-extracted on 01/17/01 to confirm high recovery. Recovery was not confirmed, considered an outlier.

Center Letter
A = 0 mg/mL
B = 0.2 mg/mL
C = 0.6 mg/mL
D = 2 mg/mL
E = 6 mg/mL

Date Entered/By: 01/15/01 LAC
Date Verified/ By: 01/16/01 kjh

| | |
|---|---|
| Study: | FACT-TOX-164, Argus 418-020, Oral (Gavage) Two-Generation Reproduction Study of APFO in Rats |
| Product Number(Test Substance): | PFOA |
| Matrix: | Concentration Samples |
| Method/Revision: | ETS-8-4.1 & ETS-8-5.1 |
| Analytical Equipment System Number: | Davey 070799 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Attachments |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 11/27/00 RWW |
| Dates of Analysis/Analyst: | 11/28/00 MMH |
| Date of Data Reduction/Analyst: | 11/29/00 MMH |

**Sample Data**

**DOSE VERIFICATION SAMPLES**

| Group Dose | Sample # | PFOA Conc. ng/mL | Concentration of PFOA ug/mL or % Rec | Target Conc. of PFOA ug/mL | % Recovery or % Target Conc. | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|---|
| Method Blk | 112700-WBlk-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | 112700-WBlk-2 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | 112700-WBlk-3 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| QC | B-418-020-A-C-100ppb-MS | 69.1 | 0.0864 | 0.0979 | 88% | | |
| | B-418-020-A-C-100ppb-MSD | 68.4 | 0.0856 | 0.0979 | 87% | 88% | 1% |
| Stability Day 0 11/10/00 | B-418-020-A-C-0.5 mL | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-0.5 mL | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-0.5 mL | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| Stability Day 0 11/10/00 | B-418-020-A-A-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-A-2 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-A-1 | 62.1 | 155 | 200 | 78% | | |
| | B-418-020-B-A-2 | 58.7 | 147 | 200 | 73% | 76% | 6% |
| | B-418-020-C-A-1 | 78.3 | 489 | 600 | 82% | | |
| | B-418-020-C-A-2 | 74.9 | 468 | 600 | 78% | 80% | 4% |
| | B-418-020-D-A-1 | 71.5 | 1788 | 2000 | 89% | | |
| | B-418-020-D-A-2 | 71.7 | 1793 | 2000 | 90% | 90% | 0% |
| | B-418-020-E-A-1 | 179 | 11183 | 6000 | 186% A | | |
| | B-418-020-E-A-2 | 180 | 11256 | 6000 | 188% A | 187% | 1% |
| Stability Day 10 11/10/00 | B-418-020-A-D10-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-D10-2 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-D10-1 | 55.1 | 138 | 200 | 69% | | |
| | B-418-020-B-D10-2 | 62.6 | 157 | 200 | 78% | 74% | 13% |
| | B-418-020-C-D10-1 | 74.3 | 464 | 600 | 77% | | |
| | B-418-020-C-D10-2 | 79.4 | 496 | 600 | 83% | 80% | 7% |
| | B-418-020-D-D10-1 | 62.4 | 1560 | 2000 | 78% | | |
| | B-418-020-D-D10-2 | 70.3 | 1758 | 2000 | 88% | 83% | 12% |
| | B-418-020-E-D10-1 | 88.9 | 5553 | 6000 | 93% | | |
| | B-418-020-E-D10-2 | 95.3 | 5957 | 6000 | 99% | 96% | 7% |
| Concentration 11/10/00 | B-418-020-A-C-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | B-418-020-A-C-2 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-B-C-1 | 63.2 | 158 | 200 | 79% | | |
| | B-418-020-B-C-2 | 65.9 | 165 | 200 | 82% | 81% | 4% |
| | B-418-020-C-C-1 | 72.2 | 452 | 600 | 75% | | |
| | B-418-020-C-C-2 | 70.9 | 443 | 600 | 74% | 75% | 2% |
| | B-418-020-D-C-1 | 69.6 | 1741 | 2000 | 87% | | |
| | B-418-020-D-C-2 | 75.3 | 1883 | 2000 | 94% | 91% | 8% |
| | B-418-020-E-C-1 | 86.0 | 5376 | 6000 | 90% | | |
| | B-418-020-E-C-2 | 87.1 | 5441 | 6000 | 91% | 90% | 1% |

PFOA/POAA = Perfluorooctanoate

A = Sample re-extracted on 01/17/01 to confirm high recovery. Recovery was not confirmed, considered an outlier.

Center Letter
A = 0 mg/mL
B = 0.2 mg/mL
C = 0.6 mg/mL
D = 2 mg/mL
E = 6 mg/mL

Date Entered/By: 01/15/01 LAC
Date Verified/ By: 01/16/01 kjh

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus# 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: | FACT-TOX-164, Argus 418-020, Oral (Gavage) Two-Generation Reproduction Study of APFO in Rats |
| Product Number(Test Substance): | PFOA |
| Matrix: | Concentration Samples |
| Method/Revision: | ETS-8-4.1 & ETS-8-5.1 |
| Analytical Equipment System Number: | Davey 070799 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Below |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 01/17/01 RWW |
| Dates of Analysis/Analyst: | 01/23/01 MMH |
| Date of Data Reduction/Analyst: | 01/24/01 MMH |

**Sample Data**

**DOSE VERIFICATION SAMPLES**

| Group Dose | Sample # | Extraction Vol. mL | Surrogate Verified | Extraction Dilution Factor | PFOA Dilution Factor | PFOA Conc. ng/mL | Filename | Concentration of PFOA ug/mL or % Rec | Target Conc. of PFOA ug/mL | % Recovery or % Target Conc. | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Method Blk | POAA011701-WBlk-1-1 | 1 | NA | 1.25 | 1 | 0.00 | S010123015 | <LOQ (10 ng/mL) | NA | | | |
| | POAA011701-WBlk-1-2 | 1 | NA | 1.25 | 1 | 0.00 | S010123016 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-E-A-1 | 1 | NA | 1.25 | 50001 | 87.45 | S010123017 | 5466 | 6000 | 91% | | |
| | B-418-020-E-A-2 | 1 | NA | 1.25 | 50001 | 80.22 | S010123018 | 5014 | 6000 | 84% | 87% | 9% |

PFOA/POAA = Perfluorooctanoate

Center Letter
A = 0 mg/mL
B = 0.2 mg/mL
C = 0.6 mg/mL
D = 2 mg/mL
E = 6 mg/mL

Date Entered/By: 10/05/01 LAC
Date Verified/ By:

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus# 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: | FACT-TOX-164, Argus 418-020, Oral (Gavage) Two-Generation Reproduction Study of APFO in Rats |
| Product Number(Test Substance): | PFOA |
| Matrix: | Concentration Samples |
| Method/Revision: | ETS-8-4.1 & ETS-8-5.1 |
| Analytical Equipment System Number: | Davey 070799 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Attachments |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 01/17/01 RWW |
| Dates of Analysis/Analyst: | 01/23/01 MMH |
| Date of Data Reduction/Analyst: | 01/24/01 MMH |

**Sample Data**

**DOSE VERIFICATION SAMPLES**

| Group Dose | Sample # | PFOA Conc. ng/mL | Concentration of PFOA ug/mL or % Rec | Target Conc. of PFOA ug/mL | % Recovery or % Target Conc. | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|---|
| Method Blk | POAA011701-WBlk-1-1 | 0.00 | <LOQ (10 ng/mL) | NA | | | |
| | POAA011701-WBlk-1-2 | 0.00 | <LOQ (10 ng/mL) | NA | NA | NA | NA |
| | B-418-020-E-A-1 | 87 | 5466 | 6000 | 91% | | |
| | B-418-020-E-A-2 | 80 | 5014 | 6000 | 84% | 87% | 9% |

PFOA/POAA = Perfluorooctanoate

Center Letter
A = 0 mg/mL
B = 0.2 mg/mL
C = 0.6 mg/mL
D = 2 mg/mL
E = 6 mg/mL

Date Entered/By: 10/05/01 LAC
Date Verified/ By: 0

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus# 418-010**

Analytical Report: FACT TOX-164
LIMS E00-2738

Study: FACT-TOX-164, Argus 418-020, Oral (Gavage) Two-Generation Reproduction Study of APFO in Rats
Product Number(Test Substance): PFOA
Matrix: Comparison of Concentration Samples
Method/Revision: ETS-8-4.1 & ETS-8-5.1
Analytical Equipment System Number: Davey 070799
Instrument Software/Version: Masslynx 3.4

**Sample Data**

**DOSE VERIFICATION SAMPLES**

| Group Dose | Sample # | Extracted 11/17/00, Analyzed 11/27/00 % Recovery or % Target Conc. | PFOA Mean | PFOA RPD | Extracted 11/27/00, Analyzed 11/28/00 % Recovery or % Target Conc. | PFOA Mean | PFOA RPD | Extracted 01/17/01, Analyzed 01/23/01 % Recovery or % Target Conc. | PFOA Mean | PFOA RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Method Blk | WBlk-1<br>WBlk-2<br>WBlk-3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| QC | B-418-020-A-C-100ppb-MS<br>B-418-020-A-C-100ppb-MSD | 84%<br>87% | 86% | 4% | 88%<br>87% | 88% | 1% | NA | NA | NA |
| Stability Day 0 11/10/00 | B-418-020-A-C-0.5 mL<br>B-418-020-A-A-0.5 mL<br>B-418-020-A-D10-0.5 mL | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Stability Day 0 11/10/00 | B-418-020-A-A-1<br>B-418-020-A-A-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | B-418-020-B-A-1<br>B-418-020-B-A-2 | 95%<br>95% | 95% | 1% | 78%<br>73% | 76% | 6% | NA | NA | NA |
| | B-418-020-C-A-1<br>B-418-020-C-A-2 | 81%<br>73% | 77% | 10% | 82%<br>78% | 80% | 4% | NA | NA | NA |
| | B-418-020-D-A-1<br>B-418-020-D-A-2 | 90%<br>95% | 93% | 5% | 89%<br>90% | 90% | 0% | NA | NA | NA |
| | B-418-020-E-A-1<br>B-418-020-E-A-2 | 93%<br>106% | 99% | 13% | 186%^<br>188%^ | 187%^ | 1% | 91%<br>84% | 87% | 9% |
| Stability Day 10 11/10/00 | B-418-020-A-D10-1<br>B-418-020-A-D10-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | B-418-020-B-D10-1<br>B-418-020-B-D10-2 | 88%<br>88% | 88% | 1% | 69%<br>78% | 74% | 13% | NA | NA | NA |
| | B-418-020-C-D10-1<br>B-418-020-C-D10-2 | 77%<br>75% | 76% | 2% | 77%<br>83% | 80% | 7% | NA | NA | NA |
| | B-418-020-D-D10-1<br>B-418-020-D-D10-2 | 87%<br>85% | 86% | 2% | 78%<br>88% | 83% | 12% | NA | NA | NA |
| | B-418-020-E-D10-1<br>B-418-020-E-D10-2 | 97%<br>94% | 95% | 4% | 93%<br>99% | 96% | 7% | NA | NA | NA |
| Concentration 11/10/00 | B-418-020-A-C-1<br>B-418-020-A-C-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | B-418-020-B-C-1<br>B-418-020-B-C-2 | 90%<br>85% | 87% | 5% | 79%<br>82% | 81% | 4% | NA | NA | NA |
| | B-418-020-C-C-1<br>B-418-020-C-C-2 | 82%<br>80% | 81% | 3% | 75%<br>74% | 75% | 2% | NA | NA | NA |
| | B-418-020-D-C-1<br>B-418-020-D-C-2 | 91%<br>90% | 90% | 1% | 87%<br>94% | 91% | 8% | NA | NA | NA |
| | B-418-020-E-C-1<br>B-418-020-E-C-2 | 102%<br>100% | 101% | 2% | 90%<br>91% | 90% | 1% | NA | NA | NA |

^ = Sample re-extracted on 01/17/01 to confirm high recovery. Recovery was not confirmed, considered an outlier.

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus# 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: FACT-TOX-164, E00-2738 | Oral (Gavage) Two-Generation (One Liter per Generation) Reproduction Study of PFOA in Rats |
| Product Number(Test Substance): | T-6889.6 |
| Matrix: | Rat Serum |
| Method/Revision: | ETS-8-4.2 & ETS-8-5.2 versus an extracted rat serum curve |
| Analytical Equipment System Number: | Amelia062498 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Below |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 06/19/01 RWW |
| Dates of Analysis/Analyst: | 06/21/01, 06/27/01, 07/17/01 MMH |
| Date of Data Reduction/Analyst: | 06/22/01, 06/28/01, 07/18/01 MMH |
| **Sample Data** | Box: 01-029 |

**RAT SERUM**

| Group Dose | Sample # | Initial Vol. mL | Surrogate Verified | PFOA Dilution Factor | PFOA Conc. ng/mL | Filename | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|---|---|---|---|
| Method Blk | RTS062101-H2O Blk-1 | 1 | 2nd Analysis OK | 1 | 1.63 | A010627016 | <LOQ (0.00528 ug/mL) | | |
| | RTS062101-H2O Blk-2 | 1 | 2nd Analysis OK | 1 | 1.29 | A010627017 | <LOQ (0.00528 ug/mL) | <LOQ | NA |
| Matrix Blk | RTS062101-Sera Blk-1 | 1 | NA | 1 | 1.77 | A010627018 | <LOQ (0.00528 ug/mL) | | |
| | RTS062101-Sera Blk-2 | 1 | 2nd Analysis OK | 1 | 1.48 | A010627019 | <LOQ (0.00528 ug/mL) | <LOQ | NA |
| Group 1 | P13801F,Grp1,0MKD,LD22 | 1 | NA | 1 | 2.66 | A010627020 | <LOQ (0.00528 ug/mL) | | |
| 0.0 mg/kg/day | P13802F,Grp1,0MKD,LD22 | 1 | NA | 1 | 1.81 | A010627021 | <LOQ (0.00528 ug/mL) | | NA |
| | P13806F,Grp1,0MKD,LD22 | 1 | NA | 1 | 3.24 | A010627022 | <LOQ (0.00528 ug/mL) | <LOQ | NA |
| | P13601M,Grp1,0MKD, PD106 | 1 | NA | 1 | 50.14 | A010627023 | 0.0501 | | |
| | P13607M,Grp1,0MKD, PD107 | 1 | NA | 1 | 20.81 | A010627024 | 0.0208 | | 43.0 |
| | P13613M,Grp1,0MKD, PD108 | 1 | NA | 1 | 32.17 | A010627025 | 0.0322 | 0.0344 | 0.0148 |
| Group 4 | P13891F,Grp4,10MKD,LD22 | 1 | NA | 5 | 65.14 | A010627029 | 0.326 | | |
| 10 mg/kg/day | P13892F,Grp4,10MKD,LD22 | 1 | NA | 5 | 79.13 | A010627030 | 0.396 | | |
| | P13893F,Grp4,10MKD,LD22 | 1 | NA | 5 | 48.13 | A010627031 | 0.241 | | |
| | P13894F,Grp4,10MKD,LD22 | 1 | NA | 5 | 85.45 | A010627032 | 0.427 | | |
| | P13895F,Grp4,10MKD,LD22 | 1 | NA | 5 | 90.13 | A010627033 | 0.451 | | |
| | P13896F,Grp4,10MKD,LD22 | 1 | NA | 25 | 16.73 | M010717023 | 0.418 | | |
| | P13897F,Grp4,10MKD,LD22 | 1 | NA | 5 | 50.11 | A010627035 | 0.251 | | |
| | P13898F,Grp4,10MKD,LD22 | 1 | NA | 5 | 77.67 | A010627036 | 0.388 | | |
| | P13899F,Grp4,10MKD,LD22 | 1 | NA | 25 | 18.94 | M010717024 | 0.474 | | 21.7 |
| | P13901F,Grp4,10MKD,LD22 | 1 | NA | 5 | 66.15 | A010627038 | 0.331 | 0.370 | 0.0805 |
| | P13691M,Grp4,10MKD, PD106 | 1 | NA | 1000 | 36.82 | M010717031 | 36.8 | | |
| | P13692M,Grp4,10MKD, PD106 | 1 | Confirmed Low | 1000 | 56.73 | M010717032 | 56.7 | | |
| | P13697M,Grp4,10MKD, PD107 | 1 | Confirmed Low | 1000 | 68.41 | M010717036 | 68.4 | | |
| | P13698M,Grp4,10MKD, PD107 | 1 | NA | 1000 | 50.18 | M010717037 | 50.2 | | |
| | P13703M,Grp4,10MKD, PD108 | 1 | Confirmed Low | 1000 | 54.44 | M010717038 | 54.4 | | |
| | P13704M,Grp4,10MKD, PD108 | 1 | Confirmed Low | 1000 | 39.46 | M010717039 | 39.5 | | |
| | P13709M,Grp4,10MKD, PD109 | 1 | Confirmed Low | 1000 | 59.00 | M010717040 | 59.0 | | |
| | P13710M,Grp4,10MKD, PD109 | 1 | NA | 1000 | 51.78 | M010717041 | 51.8 | | |
| | P13715M,Grp4,10MKD, PD110 | 1 | Confirmed Low | 1000 | 48.04 | M010717042 | 48.0 | | 18.2 |
| | P13716M,Grp4,10MKD, PD110 | 1 | NA | 1000 | 46.29 | M010717043 | 46.3 | 51.1 | 9.30 |
| Group 5 | P13921F,Grp5,30MKD,LD22 | 1 | NA | 50 | 22.08 | M010717025 | 1.10 | | |
| 30 mg/kg/day | P13922F,Grp5,30MKD,LD22 | 1 | NA | 50 | 16.96 | M010717026 | 0.848 | | |
| | P13923F,Grp5,30MKD,LD22 | 1 | Confirmed Low | 50 | 27.60 | M010717027 | 1.38 | | |
| | P13924F,Grp5,30MKD,LD22 | 1 | NA | 50 | 37.63 | M010717028 | 1.88 | | |
| | P13925F,Grp5,30MKD,LD22 | 1 | NA | 50 | 18.21 | M010717029 | 0.910 | | |
| | P13926F,Grp5,30MKD,LD22 | 1 | NA | 10 | 57.45 | A010627060 | 0.574 | | |
| | P13927F,Grp5,30MKD,LD22 | 1 | NA | 10 | 90.11 | A010627061 | 0.901 | | |
| | P13928F,Grp5,30MKD,LD22 | 1 | NA | 10 | 92.70 | A010627062 | 0.927 | | |
| | P13930F,Grp5,30MKD,LD22 | 1 | NA | 10 | 39.07 | A010627063 | 0.391 | | 41.5 |
| | P13931F,Grp5,30MKD,LD22 | 1 | Confirmed low | 50 | 26.43 | M010717030 | 1.32 | 1.02 | 0.425 |
| | P13721M,Grp5,30MKD, PD106 | 1 | Confirmed Low | 1000 | 50.92 | M010717044 | 50.9 | | |
| | P13722M,Grp5,30MKD, PD106 | 1 | Confirmed Low | 1000 | 29.94 | M010717045 | 29.9 | | |
| | P13727M,Grp5,30MKD, PD107 | 1 | NA | 1000 | 39.57 | M010717049 | 39.6 | | |
| | P13728M,Grp5,30MKD, PD107 | 1 | Confirmed Low | 1000 | 61.12 | M010717050 | 61.1 | | |
| | P13733M,Grp5,30MKD, PD108 | 1 | Confirmed Low | 1000 | 33.44 | M010717051 | 33.4 | | |
| | P13734M,Grp5,30MKD, PD108 | 1 | NA | 1000 | 42.17 | M010717052 | 42.2 | | |
| | P13739M,Grp5,30MKD, PD109 | 1 | Confirmed Low | 1000 | 56.43 | M010717053 | 56.4 | | |
| | P13740M,Grp5,30MKD, PD109 | 1 | Confirmed Low | 1000 | 27.42 | M010717054 | 27.4 | | |
| | P13746M,Grp5,30MKD, PD110 | 1 | NA | 1000 | 50.07 | M010717055 | 50.1 | | 27.9 |
| | P13747M,Grp5,30MKD, PD110 | 1 | Confirmed Low | 1000 | 61.55 | M010717056 | 61.6 | 45.3 | 12.6 |

PFOA = Perfluorooctanoate

Date Entered/By: 07/10/01, 08/06/01 LAC
Date Verified/ By: 08/13/01 mmh

Study: FACT-TOX-164, E00-2738 · Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of PFOA in Rats
Product Number(Test Substance): T-6889.6
Matrix: Rat Serum
Method/Revision: ETS-8-4.2 & ETS-8-5.2 versus an extracted rat serum curve
Analytical Equipment System Number: Amelia062498
Instrument Software/Version: Masslynx 3.4
Filename: See Attachments
R-Squared Value: See Attachments
Slope: See Attachments
Y-Intercept: See Attachments
Dates of Extraction/Analyst: 06/19/01 RWW
Dates of Analysis/Analyst: 06/21/01, 06/27/01, 07/17/01 MMH
Date of Data Reduction/Analyst: 06/22/01, 06/28/01, 07/18/01 MMH

**Sample Data**

**RAT SERUM**

| Group Dose | Sample # | PFOA Conc. ng/mL | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|
| Method Blk | RTS062101-H2O Blk-1 | 1.63 | <LOQ (0.00528 ug/mL) | | |
| | RTS062101-H2O Blk-2 | 1.29 | <LOQ (0.00528 ug/mL) | NA | NA |
| Matrix Blk | RTS062101-Sera Blk-1 | 1.77 | <LOQ (0.00528 ug/mL) | | |
| | RTS062101-Sera Blk-2 | 1.48 | <LOQ (0.00528 ug/mL) | NA | NA |
| Group 1 0.0 mg/kg/day | P13801F,Grp1,0MKD,LD22 | 2.66 | <LOQ (0.00528 ug/mL) | | |
| | P13802F,Grp1,0MKD,LD22 | 1.81 | <LOQ (0.00528 ug/mL) | | NA |
| | P13806F,Grp1,0MKD,LD22 | 3.24 | <LOQ (0.00528 ug/mL) | <LOQ | NA |
| | P13601M,Grp1,0MKD, PD106 | 50.1 | 0.0501 | | |
| | P13607M,Grp1,0MKD, PD107 | 20.8 | 0.0208 | | 43.0 |
| | P13613M,Grp1,0MKD, PD108 | 32.2 | 0.0322 | 0.0344 | 0.0148 |
| Group 4 10 mg/kg/day | P13891F,Grp4,10MKD,LD22 | 65.1 | 0.326 | | |
| | P13892F,Grp4,10MKD,LD22 | 79.1 | 0.396 | | |
| | P13893F,Grp4,10MKD,LD22 | 48.1 | 0.241 | | |
| | P13894F,Grp4,10MKD,LD22 | 85.4 | 0.427 | | |
| | P13895F,Grp4,10MKD,LD22 | 90.1 | 0.451 | | |
| | P13896F,Grp4,10MKD,LD22 | 16.7 | 0.418 | | |
| | P13897F,Grp4,10MKD,LD22 | 50.1 | 0.251 | | |
| | P13898F,Grp4,10MKD,LD22 | 77.7 | 0.388 | | |
| | P13899F,Grp4,10MKD,LD22 | 18.9 | 0.474 | | 21.7 |
| | P13901F,Grp4,10MKD,LD22 | 66.2 | 0.331 | 0.370 | 0.0805 |
| | P13691M,Grp4,10MKD, PD106 | 36.8 | 36.8 | | |
| | P13692M,Grp4,10MKD, PD106 | 56.7 | 56.7 | | |
| | P13697M,Grp4,10MKD, PD107 | 68.4 | 68.4 | | |
| | P13698M,Grp4,10MKD, PD107 | 50.2 | 50.2 | | |
| | P13703M,Grp4,10MKD, PD108 | 54.4 | 54.4 | | |
| | P13704M,Grp4,10MKD, PD108 | 39.5 | 39.5 | | |
| | P13709M,Grp4,10MKD, PD109 | 59.0 | 59.0 | | |
| | P13710M,Grp4,10MKD, PD109 | 51.8 | 51.8 | | |
| | P13715M,Grp4,10MKD, PD110 | 48.0 | 48.0 | | 18.2 |
| | P13716M,Grp4,10MKD, PD110 | 46.3 | 46.3 | 51.1 | 9.30 |
| Group 5 30 mg/kg/day | P13921F,Grp5,30MKD,LD22 | 22.1 | 1.10 | | |
| | P13922F,Grp5,30MKD,LD22 | 17.0 | 0.848 | | |
| | P13923F,Grp5,30MKD,LD22 | 27.6 | 1.38 | | |
| | P13924F,Grp5,30MKD,LD22 | 37.6 | 1.88 | | |
| | P13925F,Grp5,30MKD,LD22 | 18.2 | 0.910 | | |
| | P13926F,Grp5,30MKD,LD22 | 57.4 | 0.574 | | |
| | P13927F,Grp5,30MKD,LD22 | 90.1 | 0.901 | | |
| | P13928F,Grp5,30MKD,LD22 | 92.7 | 0.927 | | |
| | P13930F,Grp5,30MKD,LD22 | 39.1 | 0.391 | | 41.5 |
| | P13931F,Grp5,30MKD,LD22 | 26.4 | 1.32 | 1.02 | 0.425 |
| | P13721M,Grp5,30MKD, PD106 | 50.9 | 50.9 | | |
| | P13722M,Grp5,30MKD, PD106 | 29.9 | 29.9 | | |
| | P13727M,Grp5,30MKD, PD107 | 39.6 | 39.6 | | |
| | P13728M,Grp5,30MKD, PD107 | 61.1 | 61.1 | | |
| | P13733M,Grp5,30MKD, PD108 | 33.4 | 33.4 | | |
| | P13734M,Grp5,30MKD, PD108 | 42.2 | 42.2 | | |
| | P13739M,Grp5,30MKD, PD109 | 56.4 | 56.4 | | |
| | P13740M,Grp5,30MKD, PD109 | 27.4 | 27.4 | | |
| | P13746M,Grp5,30MKD, PD110 | 50.1 | 50.1 | | 27.9 |
| | P13747M,Grp5,30MKD, PD110 | 61.6 | 61.6 | 45.3 | 12.6 |

PFOA = Perfluorooctanoate

Date Entered/By: 07/10/01, 08/06/01 LAC
Date Verified/ By: 08/13/01 mmh

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: FACT-TOX-164, E00-2738 | Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of PFOA in Rats |
| Product Number(Test Substance): | T-6889.6 |
| Matrix: | Rat Serum |
| Method/Revision: | ETS-8-4.2 & ETS-8-5.2 versus an unextracted curve |
| Analytical Equipment System Number: | Soup020199 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Below |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 06/14/01 RWW |
| Dates of Analysis/Analyst: | 06/15/01 MMH |
| Date of Data Reduction/Analyst: | 06/18/01 MMH |
| **Sample Data** | Box: 01-028 |

**RAT SERUM**

| Group Dose | Sample # | Initial Vol. mL | Extraction Dilution Factor | Surrogate Verified | PFOA Dilution Factor | PFOA Conc. ng/mL | Filename | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Method Blank | RTS061401-H2O Blk-1 | 1 | 1.25 | Out High | 1 | 0.00 | S010615018 | <LOQ (0.00107 ug/mL) | | |
| | RTS061401-H2O Blk-2 | 1 | 1.25 | Out High | 1 | 0.00 | S010615019 | <LOQ (0.00107 ug/mL) | <LOQ | NA |
| Matrix Blank | RTS061401-Sera Blk-1 | 1 | 1.25 | Out High | 1 | 0.00 | S010615020 | <LOQ (0.00107 ug/mL) | | |
| | RTS061401-Sera Blk-2 | 1 | 1.25 | Out High | 1 | 0.00 | S010615021 | <LOQ (0.00107 ug/mL) | <LOQ | NA |
| QC | RTS061401-MS-25 ppb | 1 | 1.25 | Out High | 1 | 12.67 | S010615022 | 60% | | |
| | RTS061401-MSD-25 ppb | 1 | 1.25 | Out High | 1 | 14.36 | S010615023 | 68% | 64% | 13% |
| | RTS061401-MS-500 ppb | 1 | 1.25 | NA | 1 | 287.30 | S010615024 | 68% | | |
| | RTS061401-MSD-500 ppb | 1 | 1.25 | NA | 1 | 276.16 | S010615025 | 65% | 67% | 4% |

PFOA = Perfluorooctanoate

Date Entered/By: 06/22/01 LAC
Date Verified/ By: 08/13/01 mmh

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: FACT-TOX-164, E00-2738 | Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of PFOA in Rats |
| Product Number(Test Substance): | T-6889.6 |
| Matrix: | Rat Serum |
| Method/Revision: | ETS-8-4.2 & ETS-8-5.2 versus an unextracted curve |
| Analytical Equipment System Number: | Soup020199 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Attachments |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 06/14/01 RWW |
| Dates of Analysis/Analyst: | 06/15/01 MMH |
| Date of Data Reduction/Analyst: | 06/18/01 MMH |

**Sample Data**

**RAT SERUM**

| Group Dose | Sample # | PFOA Conc. ng/mL | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|
| Method Blank | RTS061401-H2O Blk-1 | 0.00 | <LOQ (0.00107 ug/mL) | | |
| | RTS061401-H2O Blk-2 | 0.00 | <LOQ (0.00107 ug/mL) | <LOQ | NA |
| Matrix Blank | RTS061401-Sera Blk-1 | 0.00 | <LOQ (0.00107 ug/mL) | | |
| | RTS061401-Sera Blk-2 | 0.00 | <LOQ (0.00107 ug/mL) | <LOQ | NA |
| QC | RTS061401-MS-25 ppb | 12.7 | 60% | | |
| | RTS061401-MSD-25 ppb | 14.4 | 68% | 64% | 13% |
| | RTS061401-MS-500 ppb | 287 | 68% | | |
| | RTS061401-MSD-500 ppb | 276 | 65% | 67% | 4% |

PFOA = Perfluorooctanoate

Date Entered/By: 06/22/01 LAC
Date Verified/ By: 08/13/01 mmh

Study: FACT-TOX-164, E00-2738 — Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of PFOA in Rats
Product Number(Test Substance): T-6889.6
Matrix: Rat Serum
Method/Revision: ETS-8-4.2 & ETS-8-5.2 versus an extracted rat serum curve
Analytical Equipment System Number: Soup020199
Instrument Software/Version: Masslynx 3.4
Filename: See Below
R-Squared Value: See Attachments
Slope: See Attachments
Y-Intercept: See Attachments
Dates of Extraction/Analyst: 08/13/01 RWW
Dates of Analysis/Analyst: 08/15/01 MMH
Date of Data Reduction/Analyst: 08/20/01 MMH
**Sample Data** Box #: 01-031

**RAT SERUM**

| Group Dose | Sample # | Initial Vol. mL | Surrogate Verified | PFOA Dilution Factor | PFOA Conc. ng/mL | Filename | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|---|---|---|---|
| Method Blank | RTS081301-H2O Blk-1 | 1 | NA | 1 | 0.00 | M010815030 | <LOQ (0.00536 ug/mL) | | |
| | RTS081301-H2O Blk-2 | 1 | NA | 1 | 0.00 | M010815031 | <LOQ (0.00536 ug/mL) | <LOQ | NA |
| Matrix Blank | RTS081301-Sera Blk-1 | 1 | NA | 1 | 0.00 | M010815032 | <LOQ (0.00536 ug/mL) A | | |
| | RTS081301-Sera Blk-2 | 1 | Confirmed High | 1 | 0.00 | M010815033 | <LOQ (0.00536 ug/mL) | <LOQ | NA |
| QC | RTS081301-MS-50 ppb | 1 | NA | 1 | 55.81 | M010815034 | 106% | | |
| | RTS081301-MSD-50 ppb | 1 | NA | 1 | 58.24 | M010815035 | 110% | 108% | 4% |
| | RTS081301-MS-1500 ppb | 1 | NA | 50 | 28.44 | M010815036 | 92% | | |
| | RTS081301-MSD-1500 ppb | 1 | NA | 50 | 24.88 | M010815037 | 80% | 86% | 13% |
| | RTS081301-MS-50000 ppb | 1 | NA | 1000 | 46.89 | M010815038 | 92% | | |
| | RTS081301-MSD-50000 ppb | 1 | NA | 1000 | 43.40 | M010815039 | 86% | 89% | 8% |

PFOA = Perfluorooctanoate
A = Peak was not integrated, not above the threshhold limit.

Date Entered/By: 08/29/01 LAC
Date Verified/ By: 9/4/01 mmh

| | |
|---|---|
| Study: FACT-TOX-164, E00-2738 | Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of PFOA in Rats |
| Product Number(Test Substance): | T-6889.6 |
| Matrix: | Rat Serum |
| Method/Revision: | ETS-8-4.2 & ETS-8-5.2 versus an extracted rat serum curve |
| Analytical Equipment System Number: | Soup020199 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Attachments |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 08/13/01 RWW |
| Dates of Analysis/Analyst: | 08/15/01 MMH |
| Date of Data Reduction/Analyst: | 08/20/01 MMH |

**Sample Data**

**RAT SERUM**

| Group Dose | Sample # | PFOA Conc. ng/mL | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|
| Method Blank | RTS081301-H2O Blk-1 | 0.00 | <LOQ (0.00536 ug/mL) | | |
| | RTS081301-H2O Blk-2 | 0.00 | <LOQ (0.00536 ug/mL) | <LOQ | NA |
| Matrix Blank | RTS081301-Sera Blk-1 | 0.00 | <LOQ (0.00536 ug/mL) A | | |
| | RTS081301-Sera Blk-2 | 0.00 | <LOQ (0.00536 ug/mL) | <LOQ | NA |
| QC | RTS081301-MS-50 ppb | 55.8 | 106% | | |
| | RTS081301-MSD-50 ppb | 58.2 | 110% | 108% | 4% |
| | RTS081301-MS-1500 ppb | 28.4 | 92% | | |
| | RTS081301-MSD-1500 ppb | 24.9 | 80% | 86% | 13% |
| | RTS081301-MS-50000 ppb | 46.9 | 92% | | |
| | RTS081301-MSD-50000 ppb | 43.4 | 86% | 89% | 8% |

PFOA = Perfluorooctanoate

A = Peak was not integrated, not above the threshhold limit.

Date Entered/By: 08/29/01 LAC
Date Verified/ By: 9/4/01 mmh

3M Medical Department Study: T-6889.6

**FACT-TOX-164**
**Argus 418-020**

Analytical Report: FACT TOX-164
LIMS E00-2738

| | |
|---|---|
| Study: FACT-TOX-164, E00-2738 | Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of PFOA in Rats |
| Product Number(Test Substance): | T-6889.6 |
| Matrix: | Rat Serum |
| Method/Revision: | ETS-8-4.2 & ETS-8-5.2 versus an unextracted curve |
| Analytical Equipment System Number: | Madeline041098 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Below |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 08/13/01 RWW |
| Dates of Analysis/Analyst: | 08/27/01 MMH |
| Date of Data Reduction/Analyst: | 08/29/01 MMH |
| **Sample Data** | Box #: 01-031 |

**RAT SERUM**

| Group Dose | Sample # | Initial Vol. mL | Extraction Dilution Factor | Surrogate Verified | PFOA Dilution Factor | PFOA Conc. ng/mL | Filename | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| Method Blank | RTS081301-H2O Blk-1 | 1 | 1.25 | Confirmed High | 1 | 0.00 | M010827017 | <LOQ (0.00268 ug/mL) | | |
| | RTS081301-H2O Blk-2 | 1 | 1.25 | Confirmed High | 1 | 0.00 | M010827018 | <LOQ (0.00268 ug/mL) | <LOQ | NA |
| Matrix Blank | RTS081301-Sera Blk-1 | 1 | 1.25 | Confirmed High | 1 | 0.00 | M010827019 | <LOQ (0.00268 ug/mL) | | |
| | RTS081301-Sera Blk-2 | 1 | 1.25 | Confirmed High | 1 | 0.00 | M010827020 | <LOQ (0.00268 ug/mL) | <LOQ | NA |
| QC | RTS081301-MS-50 ppb | 1 | 1.25 | Confirmed High | 1 | 41.31 | M010827021 | 98% | | |
| | RTS081301-MSD-50 ppb | 1 | 1.25 | Confirmed High | 1 | 39.47 | M010827022 | 93% | 96% | 5% |
| | RTS081301-MS-1500 ppb | 1 | 1.25 | NA | 50 | 20.83 | M010827023 | 84% | | |
| | RTS081301-MSD-1500 ppb | 1 | 1.25 | NA | 50 | 22.47 | M010827024 | 90% | 87% | 8% |
| | RTS081301-MS-50000 ppb | 1 | 1.25 | NA | 1000 | 32.71 | M010827025 | 81% | | |
| | RTS081301-MSD-50000 ppb | 1 | 1.25 | NA | 1000 | 28.46 | M010827026 | 70% | 75% | 14% |

PFOA = Perfluorooctanoate

Date Entered/By: 09/04/01 LAC
Date Verified/ By: 9/4/01 mmh

| | |
|---|---|
| Study: FACT-TOX-164, E00-2738 | Oral (Gavage) Two-Generation (One Litter per Generation) Reproduction Study of PFOA in Rats |
| Product Number(Test Substance): | T-6889.6 |
| Matrix: | Rat Serum |
| Method/Revision: | ETS-8-4.2 & ETS-8-5.2 versus an unextracted curve |
| Analytical Equipment System Number: | Madeline041098 |
| Instrument Software/Version: | Masslynx 3.4 |
| Filename: | See Attachments |
| R-Squared Value: | See Attachments |
| Slope: | See Attachments |
| Y-Intercept: | See Attachments |
| Dates of Extraction/Analyst: | 08/13/01 RWW |
| Dates of Analysis/Analyst: | 08/27/01 MMH |
| Date of Data Reduction/Analyst: | 08/29/01 MMH |

**Sample Data**

**RAT SERUM**

| Group Dose | Sample # | PFOA Conc. ng/mL | Concentration of PFOA ug/mL or % Rec | Mean PFOA ug/mL | RSD Std. Dev. MS/MSD RPD |
|---|---|---|---|---|---|
| Method Blank | RTS081301-H2O Blk-1 | 0.00 | <LOQ (0.00268 ug/mL) | | |
| | RTS081301-H2O Blk-2 | 0.00 | <LOQ (0.00268 ug/mL) | <LOQ | NA |
| Matrix Blank | RTS081301-Sera Blk-1 | 0.00 | <LOQ (0.00268 ug/mL) | | |
| | RTS081301-Sera Blk-2 | 0.00 | <LOQ (0.00268 ug/mL) | <LOQ | NA |
| QC | RTS081301-MS-50 ppb | 41.3 | 98% | | |
| | RTS081301-MSD-50 ppb | 39.5 | 93% | 96% | 5% |
| | RTS081301-MS-1500 ppb | 20.8 | 84% | | |
| | RTS081301-MSD-1500 ppb | 22.5 | 90% | 87% | 8% |
| | RTS081301-MS-50000 ppb | 32.7 | 81% | | |
| | RTS081301-MSD-50000 ppb | 28.5 | 70% | 75% | 14% |

PFOA = Perfluorooctanoate

Date Entered/By: 09/04/01 LAC
Date Verified/ By: 9/4/01 mmh

3M Medical Department Study: T-6889.6

Analytical Report: FACT TOX-164
LIMS E00-2738

## Appendix F: Example Calculations

**Formula Used for Sera Analyses in Study FACT TOX-164**

$$\text{AR (ng/mL)} \times \text{DF} \times \frac{\text{FV (mL)}}{\text{EV (mL)}} \times \frac{1.0\ \mu\text{g}}{1000\ \text{ng}} = \textbf{Reported Concentration (µg/mL)}$$

**Calculation Used for Group 4, LD22, Animal ID P13891F**

$$65.14\ \text{ng/mL} \times 5 \times \frac{1\ \text{mL}}{1\ \text{mL}} \times \frac{1.0\ \mu\text{g}}{1000\ \text{ng}} = \textbf{0.326 µg/mL}$$

AR— Analytical result from MassLynx summary
DF— Dilution factor
FV—Final extract volume (1.0 mL unless otherwise noted)
EV—Volume of sera extracted

3M Medical Department Study: T-6889.6

Analytical Report: FACT TOX-164
LIMS E00-2738

## Appendix G: Interim Certificate(s) of Analysis

**Centre Analytical Laboratories, Inc.**

3048 Research Drive State College, PA 16801 www.centrelab.com

Phone: (814) 231-8032 Fax: (814) 231-1253 or (814) 231-1580

# *INTERIM CERTIFICATE OF ANALYSIS*

***Revision 2 (10/17/01)***

**Centre Analytical Laboratories COA Reference #: 023-034**

**3M Product: PFOA, Primary Standard**

**Test Control Reference #: TCR-99030-30**

**Purity: 95.0%**

| Test Name | Specifications | Result |
|---|---|---|
| **Purity**[1] | | **95.0%** |
| Appearance | White, crystalline solid | Conforms |
| Identification<br>NMR | | Positive |
| Metals (ICP/MS)<br>1. Calcium<br>2. Magnesium<br>3. Sodium<br>4. Potassium<br>5. Nickel<br>6. Iron<br>7. Manganese | | <br>1. 0.001 wt./wt.%<br>2. <0.001 wt./wt.%<br>3. 0.001 wt./wt.%<br>4. <0.001 wt./wt.%<br>5. <0.001 wt./wt.%<br>6. <0.001 wt./wt.%<br>7. <0.001 wt./wt.% |
| Total % Impurity (NMR) | | 0.36 wt./wt.% |
| Total % Impurity (LC/MS) | | 4.68wt./wt.% |
| Total % Impurity (GC/MS) | | None Quantified.% |
| Residual Solvents (TGA) | | None Detected |
| Purity by DSC | | 99.8% |
| Inorganic Anions (IC)<br>1. Chloride<br>2. Fluoride<br>3. Bromide<br>4. Nitrate<br>5. Nitrite<br>6. Phosphate<br>7. Sulfate | | <br>1. <0.015 wt./wt.%<br>2. <0.005 wt./wt.%<br>3. <0.040 wt./wt.%<br>4. <0.009 wt./wt.%<br>5. <0.006 wt./wt.%<br>6. <0.006 wt./wt.%<br>7. <0.040 wt./wt.% |
| Organic Acids[2] (IC)<br>1. TFA<br>2. PFPA<br>3. HFBA<br>4. NFPA | | <br>1. <0.1 wt./wt.%<br>2. <0.1 wt./wt.%<br>3. <0.1 wt./wt.%<br>4. <0.25 wt./wt.% |
| Elemental Analysis[3]:<br>1. Carbon<br>2. Hydrogen<br>3. Nitrogen<br>4. Sulfur<br>5. Fluorine | <br>1. Theoretical Value = 22.3%<br>2. Theoretical Value = 0.935%<br>3. Theoretical Value = 3.25%<br>4. Theoretical Value = 0%<br>5. Theoretical Value = 66.1% | <br>1. 18.9 wt./wt.%<br>2. 1.27 wt./wt.%<br>3. 3.76 wt./wt.%<br>4. 4.38 wt./wt.%<br>5. 62.1 wt./wt.% |
| Ammonium Analysis[3]<br>Ion Selective Electrode | Theoretical Value = 4.18% | 2.94 wt./wt. % |

**Centre Analytical Laboratories, Inc.**
3048 Research Drive State College, PA 16801 www.centrelab.com
Phone: (814) 231-8032 Fax: (814) 231-1253 or (814) 231-1580

# *INTERIM CERTIFICATE OF ANALYSIS*

***Revision 2 (10/17/01)***

**Centre Analytical Laboratories COA Reference #: 023-034**
**3M Product: PFOA, Primary Standard**
**Test Control Reference #: TCR-99030-30**

Date of Last Analysis: 10/31/00

Expiration Date: 10/31/06

Storage Conditions: < -10 °C

Re-assessment Date: 10/31/06

[1]Purity = 100% - (total metal impurities, 0.002% + Total NMR impurities, 0.36 + Total LC/MS impurities, 4.68 %)

Total impurity from all tests = 5.042%
Purity = 100% - 5.042% = 95.0%

[2] TFA Trifluoroacetic acid
HFBA Heptafluorobutyric acid
NFPA Nonafluoropentanoic acid
PFPA Pentafluoropropanoic acid

[3]Theoretical value calculations based on the empirical formula, $C_8F_{15}O_2^{(-)}NH_4^{(+)}$ (MW=431.1)

This work was conducted under EPA Good Laboratory Practice Standards (40 CFR 160).

LC/MS Purity Profile:

| Peak # | Retention Time (min) | Mass(s) | Identity | Area | % Area |
|---|---|---|---|---|---|
| 1 | 12.144 | 269.0 | C6 | 205859 | 0.87 |
| 2 | 13.533 | 331, 319 | $F_{13}$/C7 | 903329 | 3.81 |
| 3 | 14.238 | 369 | PFOA | 22630600 | - |
| Total | - | - | - | 23739788 | 4.68 |

Prepared By: _____ 10/17/01
Charles Simons Date
Scientist, Centre Analytical Laboratories

Reviewed By: _____ 10/18/01
John Flaherty Date
Laboratory Manager, Centre Analytical Laboratories

3M Medical Department Study: T-6889.6

Analytical Report: FACT TOX-164
LIMS E00-2738

## Appendix H: Report Signature Page

John Butenhoff, Ph.D., *Study Director* — Date: January 7, 2002

David Sanders, Ph.D., *Sponsor Representative* — Date: 1-7-02

Lisa Clemen, *Principal Analytical Investigator* — Date: 01/04/02

William Reagen, Ph.D., *Laboratory Management* — Date: 01/04/02

# APPENDIX J

# ENVIRONMENTAL AND HUSBANDRY REPORTS

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 05

## Protocol Number: 418-020

### Range of Dates: 07-Nov-2000 14:11 to 13-Nov-2000 08:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 7 | | 7 | |
| **Total Number of Hours:** | 138.5 | | 138.5 | |
| **Total Number of Data Points:** | 139 | | 139 | |
| **Mean (± SD):** | 68.5 | (± 1.4) | 51.9 | (± 4.0) |
| **Maximum:** | 71.1 | | 63.9 | |
| **Median:** | 68.0 | | 50.8 | |
| **Minimum:** | 66.6 | | 44.1 | |
| **Number of Points in Range (%):** | 139 | (100.0) | 139 | (100.0) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 11:07

**COMMENTS:** _____

**REVIEWED BY:** C O'Brien **DATE:** 7 24 01

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 17

## Protocol Number: 418-020

### Range of Dates: 13-Nov-2000 08:00 to 21-Mar-2001 16:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 129 | | 129 | |
| **Total Number of Hours:** | 3080.75 | | 3080.75 | |
| **Total Number of Data Points:** | 3078 | | 3078 | |
| **Mean (± SD):** | 67.4 | (± 0.6) | 45.8 | (± 6.2) |
| **Maximum:** | 70.1 | | 62.4 | |
| **Median:** | 67.3 | | 46.7 | |
| **Minimum:** | 65.9 | | 30.8 | |
| **Number of Points in Range (%):** | 3078 | (100.0) | 3078 | (100.0) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 14:06

**COMMENTS:** _____

**REVIEWED BY:** C O Brien **DATE:** 7 24 01

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 16

## Protocol Number: 418-020

## Range of Dates: 09-Feb-2001 14:30 to 02-Mar-2001 12:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 22 | | 22 | |
| **Total Number of Hours:** | 502.25 | | 502.25 | |
| **Total Number of Data Points:** | 501 | | 501 | |
| **Mean (± SD):** | 70.3 | (± 0.8) | 46.5 | (± 5.6) |
| **Maximum:** | 72.1 | | 63.1 | |
| **Median:** | 70.2 | | 45.8 | |
| **Minimum:** | 68.3 | | 27.7 | |
| **Number of Points in Range (%):** | 501 | (100.0) | 498 | (99.4) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 3 | (0.6) |

**Report Generated:** 18-Jul-2001 at 14:11

**COMMENTS:** _____

**REVIEWED BY:** C O'Brien **DATE:** 7-24-01

**ARGUS**

## Relative Humidity Deviations Report
## Location: Room 16

**Protocol Number: 418-020**

**Range of Dates: 09-Feb-2001 14:30 to 02-Mar-2001 12:59**

**Humidity Target Range:** 30% to 70%
**Species:** Rat

| Date | Time | R.H. | Date | Time | R.H. |
|---|---|---|---|---|---|
| 25-Feb-2001 | 06:00 | 29.0 L | | | |
| 25-Feb-2001 | 07:00 | 27.7 L | | | |
| 25-Feb-2001 | 08:00 | 28.5 L | | | |

**H = Value out of range - High L = Value out of range - Low**
**R.H. = Relative Humidity (%)**

**Report Generated:** 18-Jul-2001 at 14:16

✓ These deviations did not adversely affect the outcome or interpretation of the study.

_____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: Raymond Hagan Date: 06 AUG 01

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 01

## Protocol Number: 418-020

## Range of Dates: 05-Mar-2001 11:30 to 21-Mar-2001 16:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 17 | | 17 | |
| **Total Number of Hours:** | 389.25 | | 389.25 | |
| **Total Number of Data Points:** | 390 | | 390 | |
| **Mean (± SD):** | 70.0 | (± 0.5) | 55.2 | (± 2.0) |
| **Maximum:** | 70.9 | | 63.2 | |
| **Median:** | 70.1 | | 55.3 | |
| **Minimum:** | 67.1 | | 39.3 | |
| **Number of Points in Range (%):** | 390 | (100.0) | 390 | (100.0) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 11:13

**COMMENTS:** _____

**REVIEWED BY:** C.O. Brown **DATE:** 7 24 01

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 40

## Protocol Number: 418-020

## Range of Dates: 21-Mar-2001 16:00 to 24-Mar-2001 08:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 4 | | 4 | |
| **Total Number of Hours:** | 64.75 | | 64.75 | |
| **Total Number of Data Points:** | 65 | | 65 | |
| **Mean (± SD):** | 70.5 | (± 3.3) | 51.4 | (± 6.7) |
| **Maximum:** | 74.1 | | 67.9 | |
| **Median:** | 72.2 | | 48.9 | |
| **Minimum:** | 64.6 | | 43.0 | |
| **Number of Points in Range (%):** | 65 | (100.0) | 65 | (100.0) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 14:01

**COMMENTS:** _____

**REVIEWED BY:** C.O'Brien **DATE:** 7 24-01

# ARGUS

## Temperature and Relative Humidity Report
## Location: Room 41

## Protocol Number: 418-020

## Range of Dates: 21-Mar-2001 16:00 to 24-Mar-2001 08:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 4 | | 4 | |
| **Total Number of Hours:** | 64.75 | | 64.75 | |
| **Total Number of Data Points:** | 65 | | 65 | |
| **Mean (± SD):** | 72.0 | (± 1.7) | 57.8 | (± 2.8) |
| **Maximum:** | 74.2 | | 63.4 | |
| **Median:** | 72.6 | | 57.8 | |
| **Minimum:** | 68.6 | | 50.5 | |
| **Number of Points in Range (%):** | 65 | (100.0) | 65 | (100.0) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 11:32

**COMMENTS:** _____

**REVIEWED BY:** C O Brien **DATE:** 7 24 01

## ARGUS

### Temperature and Relative Humidity Report
### Location: Room 01

### Protocol Number: 418-020

### Range of Dates: 24-Mar-2001 08:30 to 25-Mar-2001 15:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 2 | | 2 | |
| **Total Number of Hours:** | 31.25 | | 31.25 | |
| **Total Number of Data Points:** | 32 | | 32 | |
| **Mean (± SD):** | 70.7 | (± 0.4) | 52.0 | (± 1.7) |
| **Maximum:** | 71.2 | | 55.8 | |
| **Median:** | 70.8 | | 51.7 | |
| **Minimum:** | 69.9 | | 48.8 | |
| **Number of Points in Range (%):** | 32 | (100.0) | 32 | (100.0) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 14:08

**COMMENTS:** _____

**REVIEWED BY:** C O Brien **DATE:** 72401

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 04

## Protocol Number: 418-020

### Range of Dates: 24-Mar-2001 08:30 to 25-Mar-2001 15:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 2 | | 2 | |
| **Total Number of Hours:** | 31.25 | | 31.25 | |
| **Total Number of Data Points:** | 32 | | 32 | |
| **Mean (± SD):** | 69.7 | (± 0.5) | 42.1 | (± 1.6) |
| **Maximum:** | 70.5 | | 45.3 | |
| **Median:** | 69.6 | | 41.7 | |
| **Minimum:** | 68.8 | | 39.2 | |
| **Number of Points in Range (%):** | 32 | (100.0) | 32 | (100.0) |
| **Number of Points High (%):** | 0 | (0.0) | 0 | (0.0) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 14:09

**COMMENTS:** _____

**REVIEWED BY:** C O Bower **DATE:** 7 24 01

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 40

## Protocol Number: 418-020

## Range of Dates: 25-Mar-2001 15:35 to 15-Apr-2001 15:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 22 | | 22 | |
| **Total Number of Hours:** | 504.0 | | 504.0 | |
| **Total Number of Data Points:** | 504 | | 504 | |
| **Mean (± SD):** | 72.6 | (± 1.0) | 50.5 | (± 5.0) |
| **Maximum:** | 75.4 | | 71.5 | |
| **Median:** | 72.7 | | 50.5 | |
| **Minimum:** | 70.1 | | 33.3 | |
| **Number of Points in Range (%):** | 504 | (100.0) | 503 | (99.8) |
| **Number of Points High (%):** | 0 | (0.0) | 1 | (0.2) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 15-Aug-2001 at 09:30

**COMMENTS:** _____

**REVIEWED BY:** C.C. Brown **DATE:** 8-15-01

**ARGUS**

**Relative Humidity Deviations Report**
**Location: Room 40**

**Protocol Number: 418-020**

**Range of Dates: 25-Mar-2001 15:35 to 15-Apr-2001 15:59**

**Humidity Target Range:** 30% to 70%
**Species:** Rat

| Date | Time | R.H. | Date | Time | R.H. |
|---|---|---|---|---|---|
| 06-Apr-2001 | 06:00 | 71.5 H | | | |

**H = Value out of range - High L = Value out of range - Low**
**R.H. = Relative Humidity (%)**

**Report Generated:** 15-Aug-2001 at 09:34

✓ These deviations did not adversely affect the outcome or interpretation of the study.

_____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: [signature] Date: 15-AUG-01

**ARGUS**

## Temperature and Relative Humidity Report
## Location: Room 41

## Protocol Number: 418-020

## Range of Dates: 25-Mar-2001 15:35 to 15-Apr-2001 15:59

| | Temperature | | Relative Humidity | |
|---|---|---|---|---|
| **Target Range:** | 64°F to 79°F | | 30% to 70% | |
| **Species:** Rat | | | | |
| **Total Number of Days:** | 22 | | 22 | |
| **Total Number of Hours:** | 504.01 | | 504.01 | |
| **Total Number of Data Points:** | 504 | | 504 | |
| **Mean (± SD):** | 73.2 | (± 0.9) | 59.3 | (± 4.8) |
| **Maximum:** | 75.8 | | 76.0 | |
| **Median:** | 73.3 | | 59.1 | |
| **Minimum:** | 70.4 | | 43.0 | |
| **Number of Points in Range (%):** | 504 | (100.0) | 495 | (98.2) |
| **Number of Points High (%):** | 0 | (0.0) | 9 | (1.8) |
| **Number of Points Low (%):** | 0 | (0.0) | 0 | (0.0) |

**Report Generated:** 18-Jul-2001 at 11:15

**COMMENTS:** _____

**REVIEWED BY:** C.O'Brien **DATE:** 7 24 01

**ARGUS**

## Relative Humidity Deviations Report
## Location: Room 41

**Protocol Number: 418-020**

**Range of Dates: 25-Mar-2001 15:35 to 15-Apr-2001 15:59**

**Humidity Target Range:** 30% to 70%
**Species:** Rat

| Date | Time | R.H. | Date | Time | R.H. |
|---|---|---|---|---|---|
| 07-Apr-2001 | 06:00 | 72.8 H | | | |
| 09-Apr-2001 | 06:00 | 72.3 H | | | |
| 09-Apr-2001 | 11:00 | 72.3 H | | | |
| 12-Apr-2001 | 07:00 | 71.6 H | | | |
| 12-Apr-2001 | 08:00 | 72.2 H | | | |
| 12-Apr-2001 | 09:00 | 70.7 H | | | |
| 12-Apr-2001 | 10:00 | 76.0 H | | | |
| 13-Apr-2001 | 06:00 | 71.6 H | | | |
| 13-Apr-2001 | 11:00 | 70.8 H | | | |

**H = Value out of range - High  L = Value out of range - Low**
**R.H. = Relative Humidity (%)**

**Report Generated:** 18-Jul-2001 at 11:29

✓ These deviations did not adversely affect the outcome or interpretation of the study.

_____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: _____ Date: 07 AUG 01

PMI NUTRITION
INTERNATIONAL



Sample No.: L0022289-3

**Received:** 08/03/00
**Reported:** 08/16/00

Site: RHI
Locator: 5002
Project: CERT.

CERTIFIED RODENT DIET MEAL
LOT NUMBER AUG 01 00 2C

| Assay / Analyte | | Result | Units |
|---|---|---|---|
| **Protein, Kjeldahl (N x 6.25)** Protein | **PRKR** | 20.9 | % |
| **Fat** Fat | **FTEE/FTAH** | 6.01 | % |
| **Fiber, crude** Fiber, Crude | **FIBR** | 4.25 | % |
| **Arsenic** Arsenic | **ASF** | <0.200 | ppm |
| **Cadmium** Cadmium | **CDF** | 0.056 | ppm |
| **Calcium** Calcium | **CAF** | 0.788 | % |
| **Lead** Lead | **PB** | 0.187 | ppm |
| **Mercury** Mercury | **HGSP** | <0.025 | ppm |
| **Phosphorus** Phosphorus | **PF** | 0.560 | % |
| **Selenium** Selenium | **SE** | 0.362 | ppm |

For additional information, please contact:
(1) For assay methodology - Customer Services, 314-982-1310
(2) For Nutritional Interpretation - Dr. Dorrance Haught, 314-768-4362
(3) All other questions - Richmond, IN Manufacturing Plant, 765-962-9561.

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of Analyte were present. Samples submitted to Ralston Analytical Laboratories for routine analysis will be retained for a minimum of thirty (30) days after the report of analysis is issued. Extended storage requirements must be brought to the attention of Ralston Analytical Laboratories prior to or at the time of sample submission.

Ellis Anderson 10/06/00
REVIEWED BY: DATE

1401 S. Hanley Road ◆ St. Louis, MO 63144
Phone: 314-768-4100 ◆ Fax: 314-768-4765



EXACT COPY
AVH 7/18/01

PMI NUTRITION INTERNATIONAL

Locator: 5002
Project: CERT.

CERTIFIED RODENT DIET MEAL
LOT NUMBER AUG 01 00 2C

| Assay / Analyte | | Result | Units |
|---|---|---|---|
| **Organophosphate pesticides** | **ORGP** | | |
| Diazinon | | <0.0200 | ppm |
| Disulfoton | | <0.0200 | ppm |
| Ethion | | <0.0200 | ppm |
| Malathion | | 0.0200 | ppm |
| Methyl Parathion | | <0.0200 | ppm |
| Parathion | | <0.0200 | ppm |
| Thimet | | <0.0200 | ppm |
| Thiodan | | <0.0200 | ppm |
| Trithion | | <0.0200 | ppm |
| Organochlorine pest.&PCB's | RSPB | | |
| Heptachlor Epoxide | | <0.0200 | ppm |
| Heptachlor | | <0.0200 | ppm |
| DDE | | <0.0200 | ppm |
| Lindane | | <0.0200 | ppm |
| Endrin | | <0.0200 | ppm |
| Mirex | | <0.0200 | ppm |
| Alpha-BHC | | <0.0200 | ppm |
| Delta-BHC | | <0.0200 | ppm |
| Aldrin | | <0.0200 | ppm |
| Dieldrin | | <0.0200 | ppm |
| DDT | | <0.0200 | ppm |
| Chlordane | | <0.0200 | ppm |
| Methoxychlor | | <0.0200 | ppm |
| Beta-BHC | | <0.0200 | ppm |
| HCB | | <0.0200 | ppm |
| PCB | | <0.150 | ppm |
| **Aflatoxin screen** | **AFTC** | | |
| Aflatoxins | | <5.00 | ppb |

For additional information, please contact:
(1) For assay methodology - Customer Services, 314-982-1310
(2) For Nutritional Interpretation - Dr. Dorrance Haught, 314-768-4362
(3) All other questions - Richmond, IN Manufacturing Plant, 765-962-9561.

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of Analyte were present. Samples submitted to Ralston Analytical Laboratories for routine analysis will be retained for a minimum of thirty (30) days after the report of analysis is issued. Extended storage requirements musts be brought to the attention of Ralston Analytical Laboratories prior to or at the time of sample submission.

Elsie Anderson 10/26/00
REVIEWED BY: DATE

1401 S. Hanley Road ◆ St. Louis, MO 63144
Phone: 314-768-4100 ◆ Fax: 314-768-4765



EXACT COPY
ABH 7/12/01

LabDiet. PMI NUTRITION INTERNATIONAL

Return to Certified Analysis Retrieval

Product Code: 5002M
Product Desc: CERTIFIED RODENT DIET MEAL
Lab Number: L0025623-1
Lot Code: OCT 03 00 3A
Entered: 10/5/00

| Assay | Analysis | Units |
|---|---|---|
| PROTEIN | 21.5 | % |
| FAT (ACID HYDRO.) | 5.64 | % |
| FIBER (CRUDE) | 5 | % |
| ARSENIC | LESS THAN 0.2 | PPM |
| CADMIUM | 0.083 | PPM |
| CALCIUM | 1.07 | % |
| LEAD | 0.147 | PPM |
| MERCURY | LESS THAN 0.025 | PPM |
| PHOSPHORUS | 0.748 | % |
| SELENIUM | 0.361 | PPM |

| ORGANOPHOSPHATES | PPM | ORGANOPHOSPHATES | PPM |
|---|---|---|---|
| Diazinon | LESS THAN 0.02 | Disulfoton | LESS THAN 0.02 |
| Ethion | LESS THAN 0.02 | Malathion | LESS THAN 0.02 |
| Methyl Parathion | LESS THAN 0.02 | Parathion | LESS THAN 0.02 |
| Thimet | LESS THAN 0.02 | Thiodan | LESS THAN 0.02 |
| Trithion | LESS THAN 0.02 | | |

| PESTICIDES AND PCB | PPM | PESTICIDES AND PCB | PPM |
|---|---|---|---|
| Aldrin | LESS THAN 0.02 | Alpha-BHC | LESS THAN 0.02 |
| Beta-BHC | LESS THAN 0.02 | Chlordane | LESS THAN 0.02 |
| DDE | LESS THAN 0.02 | DDT | LESS THAN 0.02 |
| Delta-BHC | LESS THAN 0.02 | Dieldrin | LESS THAN 0.02 |
| Endrin | LESS THAN 0.02 | HCB | LESS THAN 0.02 |
| Heptachlor | LESS THAN 0.02 | Heptachlor Epoxide | LESS THAN 0.02 |
| Lindane | LESS THAN 0.02 | Methoxychlor | LESS THAN 0.02 |
| Mirex | LESS THAN 0.02 | PCB | LESS THAN 0.15 |

REVIEWED BY: Elena Anderson 12/21/00 DATE



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| | | |
|---|---|---|
| Aflatoxin | Aflatoxins | LESS THAN 5 PPB |

No notes.

For additional information, please contact:
1) Michael J. Murphy at (314) 982-2383 -- for assay methodology
2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of analyte were present.

Eleis Anderson 12/21/00
REVIEWED BY: DATE



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Sample No.: L0028475-2 Received: 11/30/00 Reported: 12/14/00 Site: RHI Locator: 5002 Project: CERT.

CERTIFIED RODENT DIET MEAL
LOT NUMBER DEC 01 00 1B

| Assay / Analyte | | Result | Units |
|---|---|---|---|
| **Protein, Kjeldahl (N x 6.25)** | **PRKR** | | |
| Protein | | 20.8 | % |
| **Fat** | **FTEE/FTAH** | | |
| Fat | | 5.92 | % |
| **Fiber, crude** | **FIBR** | | |
| Fiber, Crude | | 3.99 | % |
| **Arsenic** | **ASF** | | |
| Arsenic | | <0.200 | ppm |
| **Cadmium** | **CDF** | | |
| Cadmium | | 0.053 | ppm |
| **Calcium** | **CAF** | | |
| Calcium | | 0.977 | % |
| **Lead** | **PB** | | |
| Lead | | 0.139 | ppm |
| **Mercury** | **HGSP** | | |
| Mercury | | <0.025 | ppm |
| **Phosphorus** | **PF** | | |
| Phosphorus | | 0.659 | % |
| **Selenium** | **SE** | | |
| Selenium | | 0.159 | ppm |

For additional information, please contact:
(1) For assay methodology - Customer Services, 314-982-1310
(2) For Nutritional Interpretation - Dr. Dorrance Haught, 314-768-4362
(3) All other questions - Richmond, IN Manufacturing Plant, 765-962-9561.

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of Analyte were present. Samples submitted to Ralston Analytical Laboratories for routine analysis will be retained for a minimum of thirty (30) days after the report of analysis is issued. Extended storage requirements must be brought to the attention of Ralston Analytical Laboratories prior to or at the time of sample submission.

Ellen Anderson 2/5/01
REVIEWED BY: DATE

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ABH 7/18/01

Locator: 5002
Project: CERT.

CERTIFIED RODENT DIET MEAL
LOT NUMBER DEC 01 00 1B

| Assay / Analyte | | Result | Units |
|---|---|---|---|
| **Organophosphate pesticides** | **ORGP** | | |
| Diazinon | | <0.0200 | ppm |
| Disulfoton | | <0.0200 | ppm |
| Ethion | | <0.0200 | ppm |
| Malathion | | <0.0200 | ppm |
| Methyl Parathion | | <0.0200 | ppm |
| Parathion | | <0.0200 | ppm |
| Thimet | | <0.0200 | ppm |
| Thiodan | | <0.0200 | ppm |
| Trithion | | <0.0200 | ppm |
| **Organochlorine pest.&PCB's** | **RSPB** | | |
| Heptachlor Epoxide | | <0.0200 | ppm |
| Heptachlor | | <0.0200 | ppm |
| DDE | | <0.0200 | ppm |
| Lindane | | <0.0200 | ppm |
| Endrin | | <0.0200 | ppm |
| Mirex | | <0.0200 | ppm |
| Alpha-BHC | | <0.0200 | ppm |
| Delta-BHC | | <0.0200 | ppm |
| Aldrin | | <0.0200 | ppm |
| Dieldrin | | <0.0200 | ppm |
| DDT | | <0.0200 | ppm |
| Chlordane | | <0.0200 | ppm |
| Methoxychlor | | <0.0200 | ppm |
| Beta-BHC | | <0.0200 | ppm |
| HCB | | <0.0200 | ppm |
| PCB | | <0.150 | ppm |
| **Aflatoxin screen** | **AFTC** | | |
| Aflatoxins | | <5.00 | ppb |

For additional information, please contact:
(1) For assay methodology - Customer Services, 314-982-1310
(2) For Nutritional Interpretation - Dr. Dorrance Haught, 314-768-4362
(3) All other questions - Richmond, IN Manufacturing Plant, 765-962-9561.

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of Analyte were present. Samples submitted to Ralston Analytical Laboratories for routine analysis will be retained for a minimum of thirty (30) days after the report of analysis is issued. Extended storage requirements must be brought to the attention of Ralston Analytical Laboratories prior to or at the time of sample submission.

Eve Anderson 2/5/01
REVIEWED BY: DATE

EXACT C...
AB# 7/18/01

Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3634413**

Collected:06/20/2001 10:40 by EA

Account Number: 02423

Submitted: 06/20/2001 16:30
Reported: 06/28/2001 at 14:28
Discard: 07/29/2001
Point #2 Formulation Lab 905 Sheehy Dr Bldg F Grab Water Sample

Primedica Argus
57 Union Street
Worcester MA 01608

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00224 | Chloride | 16887-00-6 | < 2.0 | 2.0 | mg/l | 5 |
| 00226 | Ortho-Phosphate as P | 14265-44-2 | < 0.020 | 0.020 | mg/l | 1 |
| 00228 | Sulfate | 14808-79-8 | < 5.0 | 5.0 | mg/l | 5 |
| 00368 | Nitrate Nitrogen | 14797-55-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01504 | Fluoride | 16984-48-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01506 | Nitrite Nitrogen | 14797-65-0 | < 0.50 | 0.50 | mg/l | 5 |
| 01505 | Bromide | n.a. | < 2.5 | 2.5 | mg/l | 5 |
| 00178 | Pesticides/PCB's in Water | | | | | |
| 00453 | Gamma BHC - Lindane | 58-89-9 | < 0.0094 | 0.0094 | ug/l | 1 |
| 00454 | Heptachlor | 76-44-8 | < 0.0094 | 0.0094 | ug/l | 1 |
| 00455 | Aldrin | 309-00-2 | < 0.0094 | 0.0094 | ug/l | 1 |
| 00469 | Dieldrin | 60-57-1 | < 0.0094 | 0.0094 | ug/l | 1 |
| 00477 | Endrin | 72-20-8 | < 0.0094 | 0.0094 | ug/l | 1 |
| 00478 | DDT | 50-29-3 | < 0.0094 | 0.0094 | ug/l | 1 |
| 00638 | Endrin Aldehyde | 7421-93-4 | < 0.094 | 0.094 | ug/l | 1 |
| 01902 | Alpha BHC | 319-84-6 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01903 | Beta BHC | 319-85-7 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01904 | Delta BHC | 319-86-8 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01905 | Heptachlor Epoxide | 1024-57-3 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01906 | DDE | 72-55-9 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01907 | DDD | 72-54-8 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01908 | Chlordane | 57-74-9 | < 0.28 | 0.28 | ug/l | 1 |
| 01909 | Toxaphene | 8001-35-2 | < 3.8 | 3.8 | ug/l | 1 |
| 01910 | Endosulfan I | 959-98-8 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01911 | Endosulfan II | 33213-65-9 | < 0.0094 | 0.0094 | ug/l | 1 |
| 01912 | Endosulfan Sulfate | 1031-07-8 | < 0.028 | 0.028 | ug/l | 1 |
| 01913 | PCB-1016 | 12674-11-2 | < 0.94 | 0.94 | ug/l | 1 |
| 01914 | PCB-1221 | 11104-28-2 | < 0.94 | 0.94 | ug/l | 1 |
| 01915 | PCB-1232 | 11141-16-5 | < 0.94 | 0.94 | ug/l | 1 |
| 01916 | PCB-1242 | 53469-21-9 | < 0.94 | 0.94 | ug/l | 1 |
| 01917 | PCB-1248 | 12672-29-6 | < 0.94 | 0.94 | ug/l | 1 |
| 01918 | PCB-1254 | 11097-69-1 | < 0.94 | 0.94 | ug/l | 1 |
| 01919 | PCB-1260 | 11096-82-5 | < 0.94 | 0.94 | ug/l | 1 |
| 01856 | Herbicides in Water | | | | | |

Dena Lubs
7/5/01

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

EXACT C
ABH 7/17/01

Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3634413**

Collected:06/20/2001 10:40 by EA

Account Number: 02423

Submitted: 06/20/2001 16:30
Reported: 06/28/2001 at 14:28
Discard: 07/29/2001
Point #2 Formulation Lab 905 Sheehy Dr Bldg F Grab
Water Sample

Primedica Argus
57 Union Street
Worcester MA 01608

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01857 | 2,4-D | 94-75-7 | < 0.49 | 0.49 | ug/l | 1 |
| 01858 | 2,4,5-TP | 93-72-1 | < 0.049 | 0.049 | ug/l | 1 |
| 05286 | 2,4,5-T | 93-76-5 | < 0.049 | 0.049 | ug/l | 1 |
| 05287 | Dalapon | 75-99-0 | < 1.2 | 1.2 | ug/l | 1 |
| 05288 | Dinoseb | 88-85-7 | < 0.25 | 0.25 | ug/l | 1 |
| 05289 | Dicamba | 1918-00-9 | < 0.30 | 0.30 | ug/l | 1 |
| 05290 | MCPP | 93-65-2 | < 200. | 200. | ug/l | 1 |
| 05291 | MCPA | 94-74-6 | < 200. | 200. | ug/l | 1 |
| 05292 | 2,4-DP (Dichlorprop) | 120-36-5 | < 0.49 | 0.49 | ug/l | 1 |
| 05293 | 2,4-DB | 94-82-6 | < 0.49 | 0.49 | ug/l | 1 |
| 08103 | Pentachlorophenol | 87-86-5 | < 0.05 | 0.05 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00224 | Chloride | EPA 300.0 | 1 | 06/21/2001 14:25 | Mark A. Buckwalter | 5 |
| 00226 | Ortho-Phosphate as P | EPA 365.3 | 1 | 06/21/2001 21:00 | Daniel S. Smith | 1 |
| 00228 | Sulfate | EPA 300.0 | 1 | 06/21/2001 14:25 | Mark A. Buckwalter | 5 |
| 00368 | Nitrate Nitrogen | EPA 300.0 | 1 | 06/21/2001 14:25 | Mark A. Buckwalter | 5 |
| 01504 | Fluoride | EPA 300.0 | 1 | 06/21/2001 14:25 | Mark A. Buckwalter | 5 |
| 01506 | Nitrite Nitrogen | EPA 300.0 | 1 | 06/21/2001 14:25 | Mark A. Buckwalter | 5 |
| 01505 | Bromide | EPA 300.0 | 1 | 06/21/2001 14:25 | Mark A. Buckwalter | 5 |
| 00178 | Pesticides/PCB's in Water | EPA 608 | 1 | 06/21/2001 19:45 | Anita M. Dale | 1 |
| 01856 | Herbicides in Water | SW-846 8151A | 1 | 06/25/2001 16:12 | Tiffany A. Leyda | 1 |
| 00816 | Water Sample Herbicide Extract | SW-846 8151A | 1 | 06/22/2001 09:00 | Deborah M. Zimmerman | 1 |
| 00817 | Water Sample Pest. Extraction | EPA 608 | 1 | 06/21/2001 09:45 | Amanda E. Wade | 1 |

7/5/01

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Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3634414**

Collected:06/20/2001 10:30 by EA

Account Number: 02423

Submitted: 06/20/2001 16:30
Reported: 06/28/2001 at 14:28
Discard: 07/29/2001
Point #3 Analytical Lab 905 Sheehy Dr Bldg B Grab Water Sample

Primedica Argus
57 Union Street
Worcester MA 01608

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00224 | Chloride | 16887-00-6 | < 2.0 | 2.0 | mg/l | 5 |
| 00226 | Ortho-Phosphate as P | 14265-44-2 | < 0.020 | 0.020 | mg/l | 1 |
| 00228 | Sulfate | 14808-79-8 | < 5.0 | 5.0 | mg/l | 5 |
| 00368 | Nitrate Nitrogen | 14797-55-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01504 | Fluoride | 16984-48-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01506 | Nitrite Nitrogen | 14797-65-0 | < 0.50 | 0.50 | mg/l | 5 |
| 01505 | Bromide | n.a. | < 2.5 | 2.5 | mg/l | 5 |
| 00178 | Pesticides/PCB's in Water | | | | | |
| 00453 | Gamma BHC - Lindane | 58-89-9 | < 0.0095 | 0.0095 | ug/l | 1 |
| 00454 | Heptachlor | 76-44-8 | < 0.0095 | 0.0095 | ug/l | 1 |
| 00455 | Aldrin | 309-00-2 | < 0.0095 | 0.0095 | ug/l | 1 |
| 00469 | Dieldrin | 60-57-1 | < 0.0095 | 0.0095 | ug/l | 1 |
| 00477 | Endrin | 72-20-8 | < 0.0095 | 0.0095 | ug/l | 1 |
| 00478 | DDT | 50-29-3 | < 0.0095 | 0.0095 | ug/l | 1 |
| 00638 | Endrin Aldehyde | 7421-93-4 | < 0.095 | 0.095 | ug/l | 1 |
| 01902 | Alpha BHC | 319-84-6 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01903 | Beta BHC | 319-85-7 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01904 | Delta BHC | 319-86-8 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01905 | Heptachlor Epoxide | 1024-57-3 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01906 | DDE | 72-55-9 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01907 | DDD | 72-54-8 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01908 | Chlordane | 57-74-9 | < 0.29 | 0.29 | ug/l | 1 |
| 01909 | Toxaphene | 8001-35-2 | < 3.8 | 3.8 | ug/l | 1 |
| 01910 | Endosulfan I | 959-98-8 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01911 | Endosulfan II | 33213-65-9 | < 0.0095 | 0.0095 | ug/l | 1 |
| 01912 | Endosulfan Sulfate | 1031-07-8 | < 0.029 | 0.029 | ug/l | 1 |
| 01913 | PCB-1016 | 12674-11-2 | < 1.0 | 1.0 | ug/l | 1 |
| 01914 | PCB-1221 | 11104-28-2 | < 1.0 | 1.0 | ug/l | 1 |
| 01915 | PCB-1232 | 11141-16-5 | < 1.0 | 1.0 | ug/l | 1 |
| 01916 | PCB-1242 | 53469-21-9 | < 1.0 | 1.0 | ug/l | 1 |
| 01917 | PCB-1248 | 12672-29-6 | < 1.0 | 1.0 | ug/l | 1 |
| 01918 | PCB-1254 | 11097-69-1 | < 1.0 | 1.0 | ug/l | 1 |
| 01919 | PCB-1260 | 11096-82-5 | < 1.0 | 1.0 | ug/l | 1 |
| 01856 | Herbicides in Water | | | | | |

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Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17505-2425
717-656-2300 Fax: 717-656-2681

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AB# 7/17/01

Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3634414**

Collected:06/20/2001 10:30 by EA

Account Number: 02423

Submitted: 06/20/2001 16:30
Reported: 06/28/2001 at 14:28
Discard: 07/29/2001
Point #3 Analytical Lab 905 Sheehy Dr Bldg B Grab Water Sample

Primedica Argus
57 Union Street
Worcester MA 01608

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01857 | 2,4-D | 94-75-7 | < 0.48 | 0.48 | ug/l | 1 |
| 01858 | 2,4,5-TP | 93-72-1 | < 0.048 | 0.048 | ug/l | 1 |
| 05286 | 2,4,5-T | 93-76-5 | < 0.048 | 0.048 | ug/l | 1 |
| 05287 | Dalapon | 75-99-0 | < 1.2 | 1.2 | ug/l | 1 |
| 05288 | Dinoseb | 88-85-7 | < 0.24 | 0.24 | ug/l | 1 |
| 05289 | Dicamba | 1918-00-9 | < 0.29 | 0.29 | ug/l | 1 |
| 05290 | MCPP | 93-65-2 | < 190. | 190. | ug/l | 1 |
| 05291 | MCPA | 94-74-6 | < 190. | 190. | ug/l | 1 |
| 05292 | 2,4-DP (Dichlorprop) | 120-36-5 | < 0.48 | 0.48 | ug/l | 1 |
| 05293 | 2,4-DB | 94-82-6 | < 0.48 | 0.48 | ug/l | 1 |
| 08103 | Pentachlorophenol | 87-86-5 | < 0.05 | 0.05 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00224 | Chloride | EPA 300.0 | 1 | 06/21/2001 14:39 | Mark A. Buckwalter | 5 |
| 00226 | Ortho-Phosphate as P | EPA 365.3 | 1 | 06/21/2001 21:00 | Daniel S. Smith | 1 |
| 00228 | Sulfate | EPA 300.0 | 1 | 06/21/2001 14:39 | Mark A. Buckwalter | 5 |
| 00368 | Nitrate Nitrogen | EPA 300.0 | 1 | 06/21/2001 14:39 | Mark A. Buckwalter | 5 |
| 01504 | Fluoride | EPA 300.0 | 1 | 06/21/2001 14:39 | Mark A. Buckwalter | 5 |
| 01506 | Nitrite Nitrogen | EPA 300.0 | 1 | 06/21/2001 14:39 | Mark A. Buckwalter | 5 |
| 01505 | Bromide | EPA 300.0 | 1 | 06/21/2001 14:39 | Mark A. Buckwalter | 5 |
| 00178 | Pesticides/PCB's in Water | EPA 608 | 1 | 06/21/2001 20:05 | Anita M. Dale | 1 |
| 01856 | Herbicides in Water | SW-846 8151A | 1 | 06/25/2001 16:49 | Tiffany A. Leyda | 1 |
| 00816 | Water Sample Herbicide Extract | SW-846 8151A | 1 | 06/22/2001 09:00 | Deborah M. Zimmerman | 1 |
| 00817 | Water Sample Pest. Extraction | EPA 608 | 1 | 06/21/2001 09:45 | Amanda E. Wade | 1 |

7/5/01

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Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Building A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #: **215-443-858**

Sample number: **8197-00A**
Date sampled : **11/28/00**
Time sampled : **1400**
Date received: **11/28/00**
Sampled by : **EM**

Sample source: **Formalation** Laboratory
(D) 905 F Sheehy Drive
DK 12/27/00

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
12/27/00

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

Maryann E. Fedock/ President



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**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Building A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #: **215-443-858**

Sample number: **8197-00B**
Date sampled : **11/28/00**
Time sampled : **1400**
Date received: **11/28/00**
Sampled by : **EM**

Sample source: **Rm. 39**
(D) 905 Sheehy Drive
DL 12/27/00

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.1 |

D. Lebo 12/27/00

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

Maryann E. Fedock
Maryann E. Fedock/ President

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**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Building A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #: **215-443-858**

Sample number: **8197-00C**
Date sampled : **11/28/00**
Time sampled : **1400**
Date received: **11/28/00**
Sampled by : **EM**

Sample source: **Rm. 15**
(D) DL 12/27/00 905 Sheehy Drive

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo 12/27/00

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

Maryann E. Fedock/ President

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**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Building A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #: **215-443-858**

Sample number: **8197-00D**
Date sampled : **11/28/00**
Time sampled : **1400**
Date received: **11/28/00**
Sampled by : **EM**

Sample source: **Analytical** Laboratory
(D) 905 B Sheehy Drive
Dcl
12/27/00

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
12/27/00

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

Maryann E. Fedock/ President

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ANALYTICAL LABORATORIES, INC.
P.O. Box 319
CHALFONT, PA 18914
(215) 723-6466

## SAMPLE ANALYSIS REPORT

Customer: Argus Research, Inc.
905 Sheehy Dr., Building A
Horsham, PA 19044
Attn. Dena Lebo
Attn: 215-443-8710
FAX #: 215-443-858

Sample number: 8331-00A
Date sampled : 12/18/00
Time sampled : 1315
Date received: 12/18/00
Sampled by : EM

Sample source: Analytical Laboratory (D) DL 2/12/01

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

Dena Lebo
2/12/01

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TNTC - too numerous to count (> 200)
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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Building A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #: **215-443-858**

Sample number: **8331-00B**
Date sampled : **12/18/00**
Time sampled : **1315**
Date received: **12/18/00**
Sampled by : **EM**

Sample source: **Chem. Lab**

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

Dena Lebo
2/12/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

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TNTC - too numerous to count (> 200)
mg/l - milligram/liter

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## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Building A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #: **215-443-858**

Sample number: **8331-00C**
Date sampled : **12/18/00**
Time sampled : **1315**
Date received: **12/18/00**
Sampled by : **EM**

Sample source: **Rm. 38**

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

Dena Lebo
2/12/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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ANALYTICAL LABORATORIES, INC.
P.O. Box 319
CHALFONT, PA 18914
(215) 723-6466

## SAMPLE ANALYSIS REPORT

Customer: Argus Research, Inc.
905 Sheehy Dr., Building A
Horsham, PA 19044
Attn. Dena Lebo
Attn: 215-443-8710
FAX #: 215-443-858

Sample number: 8331-00D
Date sampled : 12/18/00
Time sampled : 1315
Date received: 12/18/00
Sampled by : EM

Sample source: Rm. 20

### ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.4 |

Dena Lebo
2/12/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

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TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

Maryann E. Fedock/ President

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# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3542350**

Collected:01/26/2001 08:50 by EA

Account Number: 02423

Submitted: 01/26/2001 16:00
Reported: 02/06/01 at 05:22 AM
Discard: 3/9/01
905 Analytical Lab Point #1 Grab Water Sample
Semi-Annual

Primedica Argus
57 Union Street
Worcester MA 01608

905AP

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00224 | Chloride | 16887-00-6 | < 2.0 | 2.0 | mg/l | 5 |
| 00228 | Sulfate | 14808-79-8 | < 5.0 | 5.0 | mg/l | 5 |
| 00368 | Nitrate Nitrogen | 14797-55-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01504 | Fluoride | 16984-48-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01506 | Nitrite Nitrogen | 14797-65-0 | < 0.50 | 0.50 | mg/l | 5 |
| 07322 | Ortho-phosphate | 14265-44-2 | < 5.0 | 5.0 | mg/l | 5 |
| 01505 | Bromide | n.a. | < 2.5 | 2.5 | mg/l | 5 |
| 00178 | Pesticides/PCB's in Water | | | | | |
| 00453 | Gamma BHC - Lindane | 58-89-9 | < 0.0098 | 0.0098 | ug/l | 1 |
| 00454 | Heptachlor | 76-44-8 | < 0.0098 | 0.0098 | ug/l | 1 |
| 00455 | Aldrin | 309-00-2 | < 0.0098 | 0.0098 | ug/l | 1 |
| 00469 | Dieldrin | 60-57-1 | < 0.0098 | 0.0098 | ug/l | 1 |
| 00477 | Endrin | 72-20-8 | < 0.0098 | 0.0098 | ug/l | 1 |
| 00478 | DDT | 50-29-3 | < 0.0098 | 0.0098 | ug/l | 1 |
| 00638 | Endrin Aldehyde | 7421-93-4 | < 0.098 | 0.098 | ug/l | 1 |
| 01902 | Alpha BHC | 319-84-6 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01903 | Beta BHC | 319-85-7 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01904 | Delta BHC | 319-86-8 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01905 | Heptachlor Epoxide | 1024-57-3 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01906 | DDE | 72-55-9 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01907 | DDD | 72-54-8 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01908 | Chlordane | 57-74-9 | < 0.29 | 0.29 | ug/l | 1 |
| 01909 | Toxaphene | 8001-35-2 | < 3.9 | 3.9 | ug/l | 1 |
| 01910 | Endosulfan I | 959-98-8 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01911 | Endosulfan II | 33213-65-9 | < 0.0098 | 0.0098 | ug/l | 1 |
| 01912 | Endosulfan Sulfate | 1031-07-8 | < 0.029 | 0.029 | ug/l | 1 |
| 01913 | PCB-1016 | 12674-11-2 | < 1.0 | 1.0 | ug/l | 1 |
| 01914 | PCB-1221 | 11104-28-2 | < 1.0 | 1.0 | ug/l | 1 |
| 01915 | PCB-1232 | 11141-16-5 | < 1.0 | 1.0 | ug/l | 1 |
| 01916 | PCB-1242 | 53469-21-9 | < 1.0 | 1.0 | ug/l | 1 |
| 01917 | PCB-1248 | 12672-29-6 | < 1.0 | 1.0 | ug/l | 1 |
| 01918 | PCB-1254 | 11097-69-1 | < 1.0 | 1.0 | ug/l | 1 |
| 01919 | PCB-1260 | 11096-82-5 | < 1.0 | 1.0 | ug/l | 1 |

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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MP 8/15/01

D. Lebo 2/16/01

2216 Rev. 9/11/00

# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3542350**

Collected:01/26/2001 08:50 by EA

Account Number: 02423

Submitted: 01/26/2001 16:00
Reported: 02/06/01 at 05:22 AM
Discard: 3/9/01
905 Analytical Lab Point #1 Grab Water Sample
Semi-Annual

Primedica Argus
57 Union Street
Worcester MA 01608

905AP

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01856 | Herbicides in Water | | | | | |
| 01857 | 2,4-D | 94-75-7 | < 0.48 | 0.48 | ug/l | 1 |
| 01858 | 2,4,5-TP | 93-72-1 | < 0.048 | 0.048 | ug/l | 1 |
| 05286 | 2,4,5-T | 93-76-5 | < 0.048 | 0.048 | ug/l | 1 |
| 05287 | Dalapon | 75-99-0 | < 1.2 | 1.2 | ug/l | 1 |
| 05288 | Dinoseb | 88-85-7 | < 0.24 | 0.24 | ug/l | 1 |
| 05289 | Dicamba | 1918-00-9 | < 0.29 | 0.29 | ug/l | 1 |
| 05290 | MCPP | 93-65-2 | < 190. | 190. | ug/l | 1 |
| 05291 | MCPA | 94-74-6 | < 190. | 190. | ug/l | 1 |
| 05292 | 2,4-DP (Dichlorprop) | 120-36-5 | < 0.48 | 0.48 | ug/l | 1 |
| 05293 | 2,4-DB | 94-82-6 | < 0.48 | 0.48 | ug/l | 1 |
| 08103 | Pentachlorophenol | 87-86-5 | < 0.05 | 0.05 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037

D. Lebo 2/16/01

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MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3542351**

Collected:01/26/2001 08:40 by EA

Account Number: 02423

Submitted: 01/26/2001 16:00
Reported: 02/06/01 at 05:22 AM
Discard: 3/9/01
905 Formulation Lab Point #2 Grab Water Sample
Semi-Annual

Primedica Argus
57 Union Street
Worcester MA 01608

905-2

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00224 | Chloride | 16887-00-6 | < 2.0 | 2.0 | mg/l | 5 |
| 00228 | Sulfate | 14808-79-8 | < 5.0 | 5.0 | mg/l | 5 |
| 00368 | Nitrate Nitrogen | 14797-55-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01504 | Fluoride | 16984-48-8 | < 0.50 | 0.50 | mg/l | 5 |
| 01506 | Nitrite Nitrogen | 14797-65-0 | < 0.50 | 0.50 | mg/l | 5 |
| 07322 | Ortho-phosphate | 14265-44-2 | < 5.0 | 5.0 | mg/l | 5 |
| 01505 | Bromide | n.a. | < 2.5 | 2.5 | mg/l | 5 |
| 00178 | Pesticides/PCB's in Water | | | | | |
| 00453 | Gamma BHC - Lindane | 58-89-9 | < 0.0096 | 0.0096 | ug/l | 1 |
| 00454 | Heptachlor | 76-44-8 | < 0.0096 | 0.0096 | ug/l | 1 |
| 00455 | Aldrin | 309-00-2 | < 0.0096 | 0.0096 | ug/l | 1 |
| 00469 | Dieldrin | 60-57-1 | < 0.0096 | 0.0096 | ug/l | 1 |
| 00477 | Endrin | 72-20-8 | < 0.0096 | 0.0096 | ug/l | 1 |
| 00478 | DDT | 50-29-3 | < 0.0096 | 0.0096 | ug/l | 1 |
| 00638 | Endrin Aldehyde | 7421-93-4 | < 0.096 | 0.096 | ug/l | 1 |
| 01902 | Alpha BHC | 319-84-6 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01903 | Beta BHC | 319-85-7 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01904 | Delta BHC | 319-86-8 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01905 | Heptachlor Epoxide | 1024-57-3 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01906 | DDE | 72-55-9 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01907 | DDD | 72-54-8 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01908 | Chlordane | 57-74-9 | < 0.29 | 0.29 | ug/l | 1 |
| 01909 | Toxaphene | 8001-35-2 | < 3.8 | 3.8 | ug/l | 1 |
| 01910 | Endosulfan I | 959-98-8 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01911 | Endosulfan II | 33213-65-9 | < 0.0096 | 0.0096 | ug/l | 1 |
| 01912 | Endosulfan Sulfate | 1031-07-8 | < 0.029 | 0.029 | ug/l | 1 |
| 01913 | PCB-1016 | 12674-11-2 | < 1.0 | 1.0 | ug/l | 1 |
| 01914 | PCB-1221 | 11104-28-2 | < 1.0 | 1.0 | ug/l | 1 |
| 01915 | PCB-1232 | 11141-16-5 | < 1.0 | 1.0 | ug/l | 1 |
| 01916 | PCB-1242 | 53469-21-9 | < 1.0 | 1.0 | ug/l | 1 |
| 01917 | PCB-1248 | 12672-29-6 | < 1.0 | 1.0 | ug/l | 1 |
| 01918 | PCB-1254 | 11097-69-1 | < 1.0 | 1.0 | ug/l | 1 |
| 01919 | PCB-1260 | 11096-82-5 | < 1.0 | 1.0 | ug/l | 1 |

D. Lebo 2/16/01

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# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3542351**

Collected:01/26/2001 08:40 by EA

Account Number: 02423

Submitted: 01/26/2001 16:00
Reported: 02/06/01 at 05:22 AM
Discard: 3/9/01
905 Formulation Lab Point #2 Grab Water Sample
Semi-Annual

Primedica Argus
57 Union Street
Worcester MA 01608

905-2

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01856 | Herbicides in Water | | | | | |
| 01857 | 2,4-D | 94-75-7 | < 0.48 | 0.48 | ug/l | 1 |
| 01858 | 2,4,5-TP | 93-72-1 | < 0.048 | 0.048 | ug/l | 1 |
| 05286 | 2,4,5-T | 93-76-5 | < 0.048 | 0.048 | ug/l | 1 |
| 05287 | Dalapon | 75-99-0 | < 1.2 | 1.2 | ug/l | 1 |
| 05288 | Dinoseb | 88-85-7 | < 0.24 | 0.24 | ug/l | 1 |
| 05289 | Dicamba | 1918-00-9 | < 0.29 | 0.29 | ug/l | 1 |
| 05290 | MCPP | 93-65-2 | < 190. | 190. | ug/l | 1 |
| 05291 | MCPA | 94-74-6 | < 190. | 190. | ug/l | 1 |
| 05292 | 2,4-DP (Dichlorprop) | 120-36-5 | < 0.48 | 0.48 | ug/l | 1 |
| 05293 | 2,4-DB | 94-82-6 | < 0.48 | 0.48 | ug/l | 1 |
| 08103 | Pentachlorophenol | 87-86-5 | < 0.05 | 0.05 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

D. L. 2/16/01

2216 Rev. 9/11/00

**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2018-01A**
Date sampled : **01/03/01**
Time sampled : **1430**
Date received: **01/03/01**
Sampled by : **EM**

Sample source: **Chem-Lab**
1/8/01 DL (A) 905 F Sheehy Drive

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
1/8/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
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mg/l - milligram/liter

PA DEP #09-332

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Maryann E. Fedock/ President

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ABA 2/13/01

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2018-01B**
Date sampled : **01/03/01**
Time sampled : **1430**
Date received: **01/03/01**
Sampled by : **EM**

Sample source: **Rm. 38**
(D)DL 905 Sheehy Drive
1/8/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 1.1 |

D. Lebo
1/8/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

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## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2018-01C**
Date sampled : **01/03/01**
Time sampled : **1430**
Date received: **01/03/01**
Sampled by : **EM**

Sample source: **Analytical Laboratory**
(D) Dr. 905B Sheehy Drive
1/8/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
1/8/01

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2018-01D**
Date sampled : **01/03/01**
Time sampled : **1430**
Date received: **01/03/01**
Sampled by : **EM**

Sample source: **Rm. 14**
(D) Dw 905 Sheehy Drive
1/8/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.6 |

D. Lebo
1-8-01

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Symbol key:
< - less than
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mg/l - milligram/liter

PA DEP #09-332

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Maryann E. Fedock/ President

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2337-01A**
Date sampled : **02/14/01**
Time sampled : **1515**
Date received: **02/14/01**
Sampled by : **EM**

Sample source: **Chem. Lab** (D) DL
905 F Sheehy Drive 2/20/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
2/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

Maryann E. Fedock
Maryann E. Fedock/ President

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ABH 7/18/01

**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2337-01B**
Date sampled : **02/14/01**
Time sampled : **1515**
Date received: **02/14/01**
Sampled by : **EM**

Sample source: **Rm. T-2** (49)
905 Sheehy Drive (1) DK 2/20/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.5 |

D. Lebo 2/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2337-01C**
Date sampled : **02/14/01**
Time sampled : **1515**
Date received: **02/14/01**
Sampled by : **EM**

Sample source: **Rm. 5** (1) DL 2/20/01
905 Sheehy Drive

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.1 |

D. Lebo
2/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **2337-01D**
Date sampled : **02/14/01**
Time sampled : **1515**
Date received: **02/14/01**
Sampled by : **EM**

Sample source: **Analytical**
905 Sheehy Drive ② DL 2/20/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo 2/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **4135-01A**
Date sampled : **03/07/01**
Time sampled : **1430**
Date received: **03/08/01**
Sampled by : **FO**

Sample source: **Room #39**

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.6 |

D. Lebo
3/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **4135-01B**
Date sampled : **03/07/01**
Time sampled : **1430**
Date received: **03/08/01**
Sampled by : **FO**

Sample source: **Chem. Lab**
905 F Sheehy Drive D 3/20/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
3/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **4135-01C**
Date sampled : **03/07/01**
Time sampled : **1430**
Date received: **03/08/01**
Sampled by : **FO**

Sample source: **Analytical** Laboratory (D) DL 3/20/01

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
3/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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P.O. Box 319
CHALFONT, PA 18914
(215) 723-6466

## SAMPLE ANALYSIS REPORT

Customer: Argus Research, Inc.
905 Sheehy Dr., Bldg. A
Horsham, PA 19044
Attn. Dena Lebo
Attn: 215-443-8710
FAX #:

Sample number: 4135-01D
Date sampled : 03/07/01
Time sampled : 1430
Date received: 03/08/01
Sampled by : FO

Sample source: Room #5

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l ① | | 1.5 |

① In-house value for room 5 on 3/6/01 was 0.3 ppm. DL 3/20/01

D. Lebo
3/20/01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **4266-01A**
Date sampled : **04/02/01**
Time sampled : **1400**
Date received: **04/02/01**
Sampled by : **FO**

Sample source: **Analytical**

### ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
4-9-01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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Maryann E. Fedock/ President

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**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **4266-01B**
Date sampled : **04/02/01**
Time sampled : **1400**
Date received: **04/02/01**
Sampled by : **FO**

Sample source: **Rm. 16 Rack 027**

### ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.6 |

D. Lebo
4-9-01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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MaryAnn E. Fedock/ President

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**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **4266-01C**
Date sampled : **04/02/01**
Time sampled : **1400**
Date received: **04/02/01**
Sampled by : **FO**

Sample source: **Rm. 39 Rack 121**

### ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | 0.3 |

D. Lebo
4-9-01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

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Maryann E. Fedock/ President

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AB# 7/17/01

**ANALYTICAL LABORATORIES, INC.**
**P.O. Box 319**
**CHALFONT, PA 18914**
**(215) 723-6466**

## SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
**905 Sheehy Dr., Bldg. A**
**Horsham, PA 19044**
**Attn. Dena Lebo**
Attn: **215-443-8710**
FAX #:

Sample number: **4266-01D**
Date sampled : **04/02/01**
Time sampled : **1400**
Date received: **04/02/01**
Sampled by : **FO**

Sample source: **Formulations**

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

| Parameter | MCL | Result |
|---|---|---|
| Coliform Bacteria, counts/100 ml | < 1 | < 1 |
| Noncoliform Bacteria, counts/100 ml | | < 1 |
| Total Chlorine, mg/l | | < 0.1 |

D. Lebo
4-9-01

All results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked by asterisks (**).

Symbol key:
< - less than
TNTC - too numerous to count (> 200)
mg/l - milligram/liter

PA DEP #09-332

Maryann E. Fedock/ President

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ABH 7/17/01

# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. G5 3542353**

Collected:01/26/2001 09:50 by EA

Account Number: 02423

Submitted: 01/26/2001 16:00
Reported: 02/06/01 at 05:22 AM
Discard: 3/9/01
Bedding: Lot # MJ1600 Sample

Primedica Argus
57 Union Street
Worcester MA 01608

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00159 | Mercury | 7439-97-6 | < 0.096 | 0.096 | mg/kg | 1 |
| 01646 | Barium | 7440-39-3 | < 9.9 | 9.9 | mg/kg | 1 |
| 01649 | Cadmium | 7440-43-9 | < 2.0 | 2.0 | mg/kg | 1 |
| 01651 | Chromium | 7440-47-3 | < 4.0 | 4.0 | mg/kg | 1 |
| 01655 | Lead | 7439-92-1 | < 9.9 | 9.9 | mg/kg | 1 |
| 01666 | Silver | 7440-22-4 | < 2.0 | 2.0 | mg/kg | 1 |
| 06935 | Arsenic TR | 7440-38-2 | < 0.99 | 0.99 | mg/kg | 1 |
| 06936 | Selenium TR | 7782-49-2 | 1.2 ① | 0.99 | mg/kg | 1 |
| 01224 | Pesticides/PCBs in Solids | | | | | |
| 01218 | Gamma BHC - Lindane | 58-89-9 | < 0.33 | 0.33 | ug/kg | 1 |
| 01219 | Heptachlor | 76-44-8 | < 0.33 | 0.33 | ug/kg | 1 |
| 01220 | Aldrin | 309-00-2 | < 0.33 | 0.33 | ug/kg | 1 |
| 01221 | DDT | 50-29-3 | < 0.67 | 0.67 | ug/kg | 1 |
| 01222 | Dieldrin | 60-57-1 | < 0.67 | 0.67 | ug/kg | 1 |
| 01223 | Endrin | 72-20-8 | < 0.67 | 0.67 | ug/kg | 1 |
| 01859 | Methoxychlor | 72-43-5 | < 3.3 | 3.3 | ug/kg | 1 |
| 01981 | Alpha BHC | 319-84-6 | < 0.33 | 0.33 | ug/kg | 1 |
| 01982 | Beta BHC | 319-85-7 | < 0.33 | 0.33 | ug/kg | 1 |
| 01983 | Delta BHC | 319-86-8 | < 0.33 | 0.33 | ug/kg | 1 |
| 01984 | Heptachlor Epoxide | 1024-57-3 | < 0.33 | 0.33 | ug/kg | 1 |
| 01985 | DDE | 72-55-9 | < 0.67 | 0.67 | ug/kg | 1 |
| 01986 | DDD | 72-54-8 | < 0.67 | 0.67 | ug/kg | 1 |
| 01987 | Chlordane | 57-74-9 | < 17. | 17. | ug/kg | 1 |
| 01988 | Toxaphene | 8001-35-2 | < 33. | 33. | ug/kg | 1 |
| 01989 | Endosulfan I | 959-98-8 | < 0.33 | 0.33 | ug/kg | 1 |
| 01990 | Endosulfan II | 33213-65-9 | < 0.67 | 0.67 | ug/kg | 1 |
| 01991 | Endosulfan Sulfate | 1031-07-8 | < 0.67 | 0.67 | ug/kg | 1 |
| 01992 | Endrin Aldehyde | 7421-93-4 | < 0.67 | 0.67 | ug/kg | 1 |
| 01993 | PCB-1016 | 12674-11-2 | < 17. | 17. | ug/kg | 1 |
| 01994 | PCB-1221 | 11104-28-2 | < 17. | 17. | ug/kg | 1 |
| 01995 | PCB-1232 | 11141-16-5 | < 17. | 17. | ug/kg | 1 |
| 01996 | PCB-1242 | 53469-21-9 | < 17. | 17. | ug/kg | 1 |
| 01997 | PCB-1248 | 12672-29-6 | < 17. | 17. | ug/kg | 1 |
| 01998 | PCB-1254 | 11097-69-1 | < 17. | 17. | ug/kg | 1 |

① Exceeds Agency maximum concentration of 1.0 mg/kg by 20%; selenium is a primary regulated contaminant by the EPA with a maximum contaminant level of 50 ug/L for human drinking water standards. DCL 2/16/01

D. Lebo 2/16/01

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



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9mP 8/15/01

# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. G5 3542353**

Collected:01/26/2001 09:50 by EA

Account Number: 02423

Submitted: 01/26/2001 16:00
Reported: 02/06/01 at 05:22 AM
Discard: 3/9/01
Bedding: Lot # MJ1600 Sample

Primedica Argus
57 Union Street
Worcester MA 01608

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01999 | PCB-1260 | 11096-82-5 | < 17. | 17. | ug/kg | 1 |
| 01863 | Appendix IX Herbicides in Soil | | | | | |
| 04174 | 2,4-D | 94-75-7 | < 17. | 17. | ug/kg | 1 |
| 04176 | 2,4,5-TP | 93-72-1 | < 1.7 | 1.7 | ug/kg | 1 |

D. Lebo
2/16/01

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TMP 8/15/01

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

## Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **Cal** | (diet) calories | **lb.** | pound(s) |
| **meq** | milliequivalents | **kg** | kilogram(s) |
| **g** | gram(s) | **mg** | milligram(s) |
| **ug** | microgram(s) | **l** | liter(s) |
| **ml** | milliliter(s) | **ul** | microliter(s) |
| **m3** | cubic meter(s) | **fib >5 um/ml** | fibers greater than 5 microns in length per ml |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

*U.S. EPA data qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **J** | Estimated value |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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# APPENDIX K

# HISTOPATHOLOGY REPORT

***RESEARCH PATHOLOGY SERVICES, INC.***

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# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
# PROTOCOL 418-020
# SPONSOR'S STUDY NUMBER: 7-6889.6
# HISTOPATHOLOGY REPORT

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March 25, 2002

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## METHOD:

Microscopic examination was made of the specified tissues from male and female Crl:CD®(SD)IGS BR VAF/Plus® rats of the P and F1 generations divided into five groups used in a two-generation reproduction study of ammonium perfluorooctanoate (AFPO). A brief outline of the study design is shown below.

| Group | Number of Rats per Sex per Generation | Dosage (mg/kg/day) | Concentration (mg/mL) | Dosage Volume (mL/kg) |
|---|---|---|---|---|
| I | 30 | 0 | 0 | 5 |
| II | 30 | 1 | 0.2 | 5 |
| III | 30 | 3 | 0.6 | 5 |
| IV | 30 | 10 | 2 | 5 |
| V | 30 | 30 | 6 | 5 |

The test substance was considered 100% pure for the purpose of dosage calculations.

The P generation male and female rats were given the test substance once daily, beginning at approximately six weeks of age (at least 70 days before cohabitation) and continuing until the day before sacrifice. The F1 generation adult rats were given the same dosage levels of the test substances as their respective P generation sires and dams (once daily, beginning at weaning [approximately 70 days before cohabitation] and continuing until the day before sacrifice). F1 and F2 pups have been exposed to the test substance *in utero* during maternal gestation and via maternal milk during the lactation period.

The in-life portion of the study, necropsies, and recording of the gross necropsy observations were performed by the staff of Argus Research. The preserved tissues were then submitted to Research Pathology Services, Inc. for tissue processing, microscopic slide preparation and histopathologic evaluation. The protocol-specified tissues were routinely processed, embedded in paraffin, sectioned, and stained with hematoxylin and eosin for microscopic evaluation with

the exception of the testes sections which were stained with the periodic acid-Schiff technique.

The tissues specified for microscopic evaluation from the P and F1 generation adult rats of Groups I and V included adrenal glands, pituitary and testis, epididymis, prostate, seminal vesicles and coagulating gland (male rats) or ovaries, oviducts, uterus, cervix and vagina (female rats). In addition, the reproductive tissues were examined from male and female rats of the P generation and male rats of the F1 generation suspected of reduced fertility. Gross lesions were examined from all P and F1 generation rats and F1 and F2 pups of all groups.

Upon completion of the project, all raw data (remaining wet tissue, paraffin blocks, microscopic slides and histology records) will be returned to Argus Research for archiving.

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RESULTS:

The type, incidence, and degree of severity of all histomorphologic observations in the P and F1 generation adult rats are summarized in Tables 1 and 3, respectively. Tables 2 and 4 summarize the histomorphologic observations in the rats suspected of reduced fertility in the P and F1 generations, respectively. Individual microscopic findings from the P and F1 generation adult rats are presented in tabular form in Appendices I and II, respectively. A key to the individual microscopic observations precedes Table I-1 and Table II-1. The gross necropsy observations, microscopic findings, and a correlation of the gross and microscopic changes, when applicable, are included in Appendices III and IV for the P and F1 generation parental adult rats, respectively. Macroscopic observations and corresponding microscopic findings in the tissues with grossly observed changes for the F1 and F2 pups are listed in Appendix V.

P Generation Adult Rats (Tables 1 and 2, I-1 to I-10, Appendix III):

No treatment-related microscopic changes were observed in the reproductive organs of any of the 10 male and 10 female rats P generation rats selected for histopathologic evaluation that had been given 30 mg/kg/day of the test substance.

A treatment-related microscopic change was observed in the adrenal glands of 2/10 and 7/10 male rats of Groups IV and V, respectively, designated for examination (Table 1). The change in the adrenal glands consisted of increased thickness and prominence of the zona glomerulosa due to cytoplasmic hypertrophy and vacuolation of the cells of this zone of the adrenal cortex. A similar adrenal effect was not observed in the male rats of Groups II and III or in any of the Group V female rats.

Male and female rats described as showing "reduced fertility" were those male rats which failed to sire healthy offspring or for which sperm or spermatid number, sperm motility or morphology were affected or female rats that failed to mate, conceive or deliver healthy offspring. The rats characterized as "reduced fertility" of the P generation are identified in the individual tables of microscopic findings in

Appendix I as "SSRF". The type, incidence and degree of severity of these findings are summarized in Table 2. There were a few changes observed in these "reduced fertility" rats, but these changes occurred sporadically and are of the type that occur spontaneously in male and female rats of this age and strain (Table 2) and were not compound-related.

All other microscopic changes observed in the male and female rats designated for microscopic evaluation were considered to have occurred spontaneously and to be unrelated to treatment. The type, incidence, or severity of these spontaneously occurring changes was not influenced by administration of the test substance. In general, these changes occurred at single, low, or similar frequencies among the control and compound-treatment groups. These changes are listed and summarized in the attached histomorphology tables.

F1 Generation Adult Rats (Tables 3 and 4, II-1 to II-10, Appendix IV):

No treatment-related microscopic changes were observed in the reproductive organs of any of the 10 male and 10 female F1 generation rats selected for histopathologic examination that had been given 30 mg/kg/day of the test substance.

Microscopic examination of the adrenal glands revealed a treatment-related effect similar to that seen in the P generation male rats, consisting of an increased thickness and prominence of the zona glomerulosa due to cytoplasmic hypertrophy and vacuolation of cells of this zone of the adrenal cortex in 7/10 high dose male rats of the F1 generation (Table 3). This adrenal gland change was not observed in the F1 generation male rats of Groups II, III and IV or in any of the F1 generation Group V female rats.

Treatment-related microscopic changes also were observed in the liver of male rats of Groups III, IV and V. These livers were grossly observed to be enlarged or to have tan areas in the liver lobes. Microscopically, these gross changes were due to diffuse hypertrophy of hepatocytes (Table 3). Hepatocytes in all areas (diffuse) of the hepatic lobules were enlarged due to an increased dense,

eosinophilic cytoplasm. A very low incidence of single-cell or focal/multifocal necrosis of hepatocytes also was observed in a few rats of these groups. Hepatic tissue was available for microscopic examination only from rats with gross observations in the liver.

There were no compound-related microscopic changes observed in any of the male rats identified as having "reduced fertility" (Table 4). The few changes in the male reproductive tissues were typical of those that occur spontaneously and their type, incidence or severity was not affected by administration of the test substance. None of the changes that were observed in these male rats were of sufficient degree to have resulted in reproductive insufficiency. These rats are identified in the individual tables of microscopic findings as "SSRF".

All other microscopic changes observed in the various organs and tissues were considered to have occurred spontaneously and to be unrelated to treatment. These changes were typical of those of which occur in male and female rats used in multigeneration reproduction studies. The type, incidence or severity of these changes were not influenced by APFO administration. These changes are listed and summarized in the attached histomorphology tables.

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## SUMMARY:

Microscopic examination was made of the specified tissues from selected parental male and female rats of the P and F1 generations and F1 and F2 generation pups of an oral (gavage) two-generation (one litter per generation) reproduction study of ammonium perfluorooctanoate (APFO). The concentrations used in the study were 0 (vehicle control), 1, 3, 10, or 30 mg/kg/day of the test substance.

No treatment-related microscopic changes were observed in the reproductive organs of any of the male or female rats of the P and F1 generations designated for microscopic examination that were given any of the dosage levels of APFO.

A treatment-related microscopic change was observed in the adrenal glands of the P generation male rats of the 10 and 30 mg/kg/day APFO-treatment groups and F1 generation male rats exposed to 30 mg/kg/day of APFO. This change was characterized by hypertrophy and vacuolation of cells of the zona glomerulosa of the adrenal cortex. A similar effect in the adrenal glands was not observed in male rats of the lower dosage groups or in female rats of the 30 mg/kg/day dosage group of either generation.

Microscopic examination of liver sections of F1 generation male rats which were observed grossly to be enlarged or have tan areas in the liver lobes showed up to marked diffuse hepatocellular hypertrophy. Single or lower incidences of hepatocellular necrosis also were observed in the male rats rats of these groups.

There were a few male and female rats in each of the P and F1 generations that were classified as demonstrating "reduced fertility". Microscopic examination of the reproductive organs of the male and female rats of the P generation and male rats of the F1 generation designated as "reduced fertility" animals showed no consistent microscopic changes and the changes that were seen were not considered to be treatment-related.

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All other microscopic changes observed in the various organs and tissues of the P and F1 generation adult male and female rats and F1 and F2 generation pups were considered to have occurred spontaneously and to be incidental and unrelated to treatment with APFO.

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## QUALITY ASSURANCE UNIT STATEMENT

All aspects of the tissue processing, microscopic slide preparation, histopathologic evaluation and report preparation for the study listed above have been performed according to the Standard Operating Procedures of Research Pathology Services, Inc. and were audited in accordance with the procedures established by the Quality Assurance Unit of Research Pathology Services, Inc. in compliance with the Good Laboratory Practice regulations specified in the protocol.

Quality Assurance inspections were performed as shown below. There were no deviations from the protocol, Standard Operating Procedures and/or appropriate Good Laboratory Practice regulations noted during the conduct of the study that had any impact on study integrity. A summary report of QA inspections was submitted to the Study Director on March 25, 2002.

| Dates of Inspection | Study Phase | Date Reported to Management | Date Reported to Study Director |
|---|---|---|---|
| 10/25/01, 01/15/02 | Trimming | 10/31/01, 01/31/02 | 09/14/01, 02/01/02 |
| 11/07/01, 01/18/02 | Embedding | 11/30/01, 01/31/02 | 02/01/02 |
| 11/17/01, 12/27/01, 01/22/02 | Microtomy | 11/30/01, 12/31/01, 01/31/02 | 02/01/02 |
| 11/19/01, 12/28/01, 01/23/02 | Staining | 11/30/01, 12/31/01, 01/31/02 | 02/01/02 |
| 01/02/02 | Histopathology | 01/31/02 | 02/01/02 |
| 01/03/02 | Data Entry | 01/31/02 | 02/01/02 |
| 01/24/02 | Data Verification | 01/31/02 | 02/01/02 |
| 01/24/02 | Data Processing | 01/31/02 | 11/01/01, 02/01/02 |
| 01/28/02 | Report Preparation | 01/31/02 | 11/02/01, 02/01/02 |
| 01/31/02 | Pre-Submission Audit | 01/31/02 | 02/01/02 |
| 02/01/02 | Draft Report | 02/01/02 | 02/01/02 |
| 03/25/02 | Final Report | 03/25/02 | 03/25/02 |

Karen W. Harkins B.S.

Karen W. Harkins, BS — Date
Quality Assurance Unit

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TABLE 1

Incidence and Degree of Severity of Histomorphologic Observations
P Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 13 | 15 | 13 | 13 | 15 | 13 | 4 | 3 | 4 | 13 |
| ADRENAL GLANDS: | | | | | | | | | | |
| NO. EXAMINED | 10 | 10 | 10 | 10 | 10 | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | 7 | 8 | 6 | 7 | 2 | 8 | 0 | 0 | 0 | 9 |
| -degeneration, cystic, cortex | [0] | [0] | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [1] |
| minimal | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| -hypertrophy/vacuolation, zona glomerulosa | [0] | [0] | [0] | [2] | [7] | [1] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| mild | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| moderate | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| -vacuolation, cortex | [3] | [2] | [4] | [1] | [3] | [0] | [0] | [0] | [0] | [0] |
| minimal | 1 | 2 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| mild | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| moderate | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PITUITARY: | | | | | | | | | | |
| NO. EXAMINED | 10 | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | 10 | 0 | 0 | 0 | 10 | 9 | 0 | 0 | 0 | 10 |
| -cyst(s), pars intermedia | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| TESTIS: | | | | | | | | | | |
| NO. EXAMINED | 13 | 4 | 2 | 2 | 15 | | | | | |
| NO. NORMAL | 12 | 3 | 2 | 1 | 13 | | | | | |
| -atrophy/degeneration, multifocal | [1] | [0] | [0] | [0] | [2] | | | | | |
| moderate | 1 | 0 | 0 | 0 | 1 | | | | | |
| marked | 0 | 0 | 0 | 0 | 1 | | | | | |
| -dilatation, rete testis | 0 | 1 | 0 | 1 | 1 | | | | | |
| -hypoplasia, diffuse | [0] | [1] | [0] | [1] | [0] | | | | | |
| marked | 0 | 1 | 0 | 1 | 0 | | | | | |
| EPIDIDYMIS: | | | | | | | | | | |
| NO. EXAMINED | 13 | 4 | 2 | 2 | 14 | | | | | |
| NO. NORMAL | 10 | 0 | 1 | 1 | 10 | | | | | |
| -atrophy | [0] | [1] | [0] | [1] | [1] | | | | | |
| minimal | 0 | 1 | 0 | 0 | 0 | | | | | |
| mild | 0 | 0 | 0 | 1 | 0 | | | | | |
| moderate | 0 | 0 | 0 | 0 | 1 | | | | | |
| -exfoliated spermatogenic cells | [0] | [1] | [1] | [0] | [2] | | | | | |
| minimal | 0 | 0 | 0 | 0 | 1 | | | | | |
| mild | 0 | 1 | 0 | 0 | 0 | | | | | |
| moderate | 0 | 0 | 1 | 0 | 1 | | | | | |

[ ] = Total incidence of specified lesion, all grades.

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TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 13 | 15 | 13 | 13 | 15 | 13 | 4 | 3 | 4 | 13 |
| EPIDIDYMIS (Continued): | | | | | | | | | | |
| -hypospermia | [0] | [1] | [1] | [1] | [2] | | | | | |
| mild | 0 | 0 | 1 | 0 | 0 | | | | | |
| marked | 0 | 1 | 0 | 1 | 2 | | | | | |
| -infiltration, mononuclear-cell, focal | [3] | [3] | [0] | [1] | [2] | | | | | |
| minimal | 3 | 2 | 0 | 1 | 2 | | | | | |
| mild | 0 | 1 | 0 | 0 | 0 | | | | | |
| PROSTATE: | | | | | | | | | | |
| NO. EXAMINED | 13 | 3 | 2 | 1 | 14 | | | | | |
| NO. NORMAL | 4 | 1 | 2 | 0 | 6 | | | | | |
| -atrophy, focal | [3] | [0] | [0] | [0] | [2] | | | | | |
| minimal | 2 | 0 | 0 | 0 | 1 | | | | | |
| mild | 1 | 0 | 0 | 0 | 1 | | | | | |
| -dilatation, glandular, focal | [2] | [0] | [0] | [0] | [2] | | | | | |
| minimal | 0 | 0 | 0 | 0 | 1 | | | | | |
| mild | 1 | 0 | 0 | 0 | 1 | | | | | |
| moderate | 1 | 0 | 0 | 0 | 0 | | | | | |
| -inflammation, chronic | [5] | [2] | [0] | [1] | [4] | | | | | |
| minimal | 3 | 1 | 0 | 0 | 2 | | | | | |
| mild | 2 | 1 | 0 | 1 | 2 | | | | | |
| -inflammation, suppurative, focal | [2] | [0] | [0] | [0] | [1] | | | | | |
| minimal | 1 | 0 | 0 | 0 | 1 | | | | | |
| mild | 1 | 0 | 0 | 0 | 0 | | | | | |
| SEMINAL VESICLES: | | | | | | | | | | |
| NO. EXAMINED | 13 | 3 | 2 | 1 | 14 | | | | | |
| NO. NORMAL | 13 | 3 | 2 | 1 | 14 | | | | | |
| COAGULATING GLAND: | | | | | | | | | | |
| NO. EXAMINED | 13 | 3 | 2 | 1 | 14 | | | | | |
| NO. NORMAL | 13 | 3 | 2 | 1 | 14 | | | | | |
| OVARIES: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 11 | 2 | 1 | 0 | 11 |
| NO. NORMAL | | | | | | 8 | 2 | 1 | 0 | 10 |
| -cyst(s), intraovarian | | | | | | 2 | 0 | 0 | 0 | 1 |
| -cystic bursa(e) | | | | | | 1 | 0 | 0 | 0 | 0 |
| OVIDUCT(S): | | | | | | | | | | |
| NO. EXAMINED | | | | | | 10 | 2 | 1 | 0 | 11 |
| NO. NORMAL | | | | | | 10 | 2 | 1 | 0 | 11 |
| UTERUS: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 11 | 2 | 1 | 0 | 11 |
| NO. NORMAL | | | | | | 1 | 1 | 1 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

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TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 13 | 15 | 13 | 13 | 15 | 13 | 4 | 3 | 4 | 13 |
| UTERUS (Continued): | | | | | | | | | | |
| -distention, lumen | | | | | | [1] | [1] | [0] | [0] | [3] |
| minimal | | | | | | 0 | 0 | 0 | 0 | 1 |
| mild | | | | | | 1 | 0 | 0 | 0 | 1 |
| moderate | | | | | | 0 | 0 | 0 | 0 | 1 |
| marked | | | | | | 0 | 1 | 0 | 0 | 0 |
| -gland(s), endometrial, cystic | | | | | | 0 | 0 | 0 | 0 | 1 |
| -macrophages, pigmented | | | | | | [10] | [0] | [0] | [0] | [10] |
| minimal | | | | | | 2 | 0 | 0 | 0 | 1 |
| mild | | | | | | 1 | 0 | 0 | 0 | 2 |
| moderate | | | | | | 7 | 0 | 0 | 0 | 6 |
| marked | | | | | | 0 | 0 | 0 | 0 | 1 |
| CERVIX: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 11 | 2 | 1 | 0 | 10 |
| NO. NORMAL | | | | | | 11 | 2 | 1 | 0 | 9 |
| -dilatation | | | | | | [0] | [0] | [0] | [0] | [1] |
| moderate | | | | | | 0 | 0 | 0 | 0 | 1 |
| VAGINA: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 10 | 2 | 1 | 0 | 10 |
| NO. NORMAL | | | | | | 8 | 2 | 1 | 0 | 10 |
| -mucification | | | | | | [2] | [0] | [0] | [0] | [0] |
| mild | | | | | | 1 | 0 | 0 | 0 | 0 |
| moderate | | | | | | 1 | 0 | 0 | 0 | 0 |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | | | | | |
| -absence of corpora lutea | | | | | | 0 | 0 | 0 | 0 | 1 |
| -presence of corpora lutea | | | | | | 11 | 2 | 1 | 0 | 10 |
| -presence of growing/antral follicles | | | | | | 11 | 2 | 1 | 0 | 11 |
| EAR(S): | | | | | | | | | | |
| NO. EXAMINED | 0 | 2 | 0 | 1 | 0 | 2 | 1 | 1 | 3 | 2 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -chondropathy, auricular | [0] | [2] | [0] | [1] | [0] | [2] | [1] | [1] | [3] | [2] |
| mild | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| moderate | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| marked | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| EXTREMITIES: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -fracture | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

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TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 13 | 15 | 13 | 13 | 15 | 13 | 4 | 3 | 4 | 13 |
| EYES: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -cataract | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| -keratitis, chronic | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [1] | [0] | [0] |
| moderate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| KIDNEYS: | | | | | | | | | | |
| NO. EXAMINED | 0 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| -dilatation, pelvis | [0] | [1] | [2] | [1] | [1] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| mild | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| moderate | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -hyperplasia, pelvic/papillary epithelium, focal | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| mild | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| LUNG: | | | | | | | | | | |
| NO. EXAMINED | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -hemorrhage, multifocal | [1] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -inflammation, interstitial, multifocal | [1] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PALATE: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -fracture | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| -hemorrhage | [0] | [0] | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] |
| marked | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

TABLE 2

Incidence and Degree of Severity of Histomorphologic Observations - Reduced Fertility Animals
P Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 3 | 3 | 2 | 1 | 4 | 1 | 2 | 1 | 1 | 1 |
| ADRENAL GLANDS: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TESTIS: | | | | | | | | | | |
| NO. EXAMINED | 3 | 3 | 2 | 1 | 4 | | | | | |
| NO. NORMAL | 2 | 3 | 2 | 1 | 3 | | | | | |
| -atrophy/degeneration, multifocal | [1] | [0] | [0] | [0] | [1] | | | | | |
| moderate | 1 | 0 | 0 | 0 | 1 | | | | | |
| -dilatation, rete testis | 0 | 0 | 0 | 0 | 1 | | | | | |
| EPIDIDYMIS: | | | | | | | | | | |
| NO. EXAMINED | 3 | 3 | 2 | 1 | 4 | | | | | |
| NO. NORMAL | 3 | 0 | 1 | 1 | 2 | | | | | |
| -atrophy | [0] | [0] | [0] | [0] | [1] | | | | | |
| moderate | 0 | 0 | 0 | 0 | 1 | | | | | |
| -exfoliated spermatogenic cells | [0] | [1] | [1] | [0] | [2] | | | | | |
| minimal | 0 | 0 | 0 | 0 | 1 | | | | | |
| mild | 0 | 1 | 0 | 0 | 0 | | | | | |
| moderate | 0 | 0 | 1 | 0 | 1 | | | | | |
| -hypospermia | [0] | [0] | [1] | [0] | [2] | | | | | |
| mild | 0 | 0 | 1 | 0 | 0 | | | | | |
| marked | 0 | 0 | 0 | 0 | 2 | | | | | |
| -infiltration, mononuclear-cell, focal | [0] | [2] | [0] | [0] | [0] | | | | | |
| minimal | 0 | 1 | 0 | 0 | 0 | | | | | |
| mild | 0 | 1 | 0 | 0 | 0 | | | | | |
| PROSTATE: | | | | | | | | | | |
| NO. EXAMINED | 3 | 3 | 2 | 1 | 4 | | | | | |
| NO. NORMAL | 0 | 1 | 2 | 0 | 3 | | | | | |
| -atrophy, focal | [3] | [0] | [0] | [0] | [1] | | | | | |
| minimal | 2 | 0 | 0 | 0 | 1 | | | | | |
| mild | 1 | 0 | 0 | 0 | 0 | | | | | |
| -inflammation, chronic | [1] | [2] | [0] | [1] | [0] | | | | | |
| minimal | 1 | 1 | 0 | 0 | 0 | | | | | |
| mild | 0 | 1 | 0 | 1 | 0 | | | | | |
| SEMINAL VESICLES: | | | | | | | | | | |
| NO. EXAMINED | 3 | 3 | 2 | 1 | 4 | | | | | |
| NO. NORMAL | 3 | 3 | 2 | 1 | 4 | | | | | |
| COAGULATING GLAND: | | | | | | | | | | |
| NO. EXAMINED | 3 | 3 | 2 | 1 | 4 | | | | | |
| NO. NORMAL | 3 | 3 | 2 | 1 | 4 | | | | | |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations - Reduced Fertility Animals
P Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 3 | 3 | 2 | 1 | 4 | 1 | 2 | 1 | 1 | 1 |
| OVARIES: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 1 | 2 | 1 | 0 | 1 |
| NO. NORMAL | | | | | | 0 | 2 | 1 | 0 | 0 |
| -cyst(s), intraovarian | | | | | | 1 | 0 | 0 | 0 | 1 |
| OVIDUCT(S): | | | | | | | | | | |
| NO. EXAMINED | | | | | | 1 | 2 | 1 | 0 | 1 |
| NO. NORMAL | | | | | | 1 | 2 | 1 | 0 | 1 |
| UTERUS: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 1 | 2 | 1 | 0 | 1 |
| NO. NORMAL | | | | | | 1 | 1 | 1 | 0 | 0 |
| -distention, lumen | | | | | | [0] | [1] | [0] | [0] | [1] |
| moderate | | | | | | 0 | 0 | 0 | 0 | 1 |
| marked | | | | | | 0 | 1 | 0 | 0 | 0 |
| CERVIX: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 1 | 2 | 1 | 0 | 1 |
| NO. NORMAL | | | | | | 1 | 2 | 1 | 0 | 1 |
| VAGINA: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 1 | 2 | 1 | 0 | 1 |
| NO. NORMAL | | | | | | 0 | 2 | 1 | 0 | 1 |
| -mucification | | | | | | [1] | [0] | [0] | [0] | [0] |
| mild | | | | | | 1 | 0 | 0 | 0 | 0 |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | | | | | |
| -absence of corpora lutea | | | | | | 0 | 0 | 0 | 0 | 1 |
| -presence of corpora lutea | | | | | | 1 | 2 | 1 | 0 | 0 |
| -presence of growing/antral follicles | | | | | | 1 | 2 | 1 | 0 | 1 |
| EAR(S): | | | | | | | | | | |
| NO. EXAMINED | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -chondropathy, auricular | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [1] | [0] | [0] |
| moderate | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| marked | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| KIDNEYS: | | | | | | | | | | |
| NO. EXAMINED | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
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TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations - Reduced Fertility Animals
P Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 3 | 3 | 2 | 1 | 4 | 1 | 2 | 1 | 1 | 1 |
| KIDNEYS (Continued): | | | | | | | | | | |
| -dilatation, pelvis | [0] | [1] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mild | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

TABLE 3

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 17 | 13 | 19 | 26 | 25 | 12 | 5 | 1 | 1 | 11 |
| ADRENAL GLANDS: | | | | | | | | | | |
| NO. EXAMINED | 10 | 10 | 10 | 10 | 9 | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | 6 | 6 | 9 | 8 | 2 | 10 | 0 | 0 | 0 | 9 |
| -hyperplasia, cortical, focal | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [1] |
| minimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -hypertrophy/vacuolation, zona glomerulosa | [0] | [0] | [0] | [0] | [7] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| mild | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| -vacuolation, cortex | [4] | [4] | [1] | [2] | [2] | [0] | [0] | [0] | [0] | [0] |
| minimal | 4 | 4 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| LIVER: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 6 | 9 | 10 | 0 | 1 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -hematopoiesis, extramedullary, multifocal | [0] | [0] | [1] | [1] | [1] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| -hypertrophy, hepatocellular, diffuse | [0] | [0] | [6] | [9] | [10] | [0] | [0] | [0] | [0] | [0] |
| mild | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| moderate | 0 | 0 | 4 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| marked | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| -infarct, liver lobe | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| -inflammation, chronic, focal/multifocal | [0] | [0] | [2] | [2] | [1] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| mild | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -necrosis, focal/multifocal | [0] | [0] | [1] | [3] | [2] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| mild | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| -necrosis, single-cell | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| TESTIS: | | | | | | | | | | |
| NO. EXAMINED | 12 | 3 | 2 | 2 | 10 | | | | | |
| NO. NORMAL | 11 | 3 | 2 | 2 | 10 | | | | | |
| -atrophy/degeneration, multifocal | [1] | [0] | [0] | [0] | [0] | | | | | |
| minimal | 1 | 0 | 0 | 0 | 0 | | | | | |
| EPIDIDYMIS: | | | | | | | | | | |
| NO. EXAMINED | 12 | 3 | 2 | 2 | 10 | | | | | |
| NO. NORMAL | 10 | 3 | 2 | 2 | 7 | | | | | |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
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TABLE 3 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 17 | 13 | 19 | 26 | 25 | 12 | 5 | 1 | 1 | 11 |
| EPIDIDYMIS (Continued): | | | | | | | | | | |
| -infiltration, mononuclear-cell, focal | [2] | [0] | [0] | [0] | [3] | | | | | |
| minimal | 2 | 0 | 0 | 0 | 3 | | | | | |
| PROSTATE: | | | | | | | | | | |
| NO. EXAMINED | 12 | 3 | 2 | 2 | 10 | | | | | |
| NO. NORMAL | 10 | 2 | 1 | 1 | 7 | | | | | |
| -atrophy, focal | [0] | [0] | [0] | [1] | [1] | | | | | |
| minimal | 0 | 0 | 0 | 1 | 0 | | | | | |
| mild | 0 | 0 | 0 | 0 | 1 | | | | | |
| -dilatation, glandular, focal | [1] | [0] | [0] | [0] | [0] | | | | | |
| mild | 1 | 0 | 0 | 0 | 0 | | | | | |
| -inflammation, chronic | [2] | [1] | [1] | [0] | [1] | | | | | |
| minimal | 1 | 1 | 0 | 0 | 1 | | | | | |
| mild | 1 | 0 | 1 | 0 | 0 | | | | | |
| -inflammation, suppurative | [0] | [0] | [0] | [0] | [1] | | | | | |
| minimal | 0 | 0 | 0 | 0 | 1 | | | | | |
| SEMINAL VESICLES: | | | | | | | | | | |
| NO. EXAMINED | 12 | 3 | 2 | 2 | 10 | | | | | |
| NO. NORMAL | 12 | 3 | 2 | 2 | 10 | | | | | |
| COAGULATING GLAND: | | | | | | | | | | |
| NO. EXAMINED | 12 | 3 | 2 | 2 | 10 | | | | | |
| NO. NORMAL | 12 | 3 | 2 | 2 | 10 | | | | | |
| OVARIES: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | | | | | | 10 | 0 | 0 | 0 | 9 |
| -cyst(s), intraovarian | | | | | | 0 | 0 | 0 | 0 | 1 |
| UTERUS: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | | | | | | 2 | 0 | 0 | 0 | 0 |
| -distention, lumen | | | | | | [2] | [0] | [0] | [0] | [2] |
| minimal | | | | | | 1 | 0 | 0 | 0 | 0 |
| mild | | | | | | 1 | 0 | 0 | 0 | 0 |
| moderate | | | | | | 0 | 0 | 0 | 0 | 2 |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

TABLE 3 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 17 | 13 | 19 | 26 | 25 | 12 | 5 | 1 | 1 | 11 |
| UTERUS (Continued): | | | | | | | | | | |
| -macrophages, pigmented | | | | | | [7] | [0] | [0] | [0] | [10] |
| minimal | | | | | | 0 | 0 | 0 | 0 | 1 |
| mild | | | | | | 1 | 0 | 0 | 0 | 1 |
| moderate | | | | | | 4 | 0 | 0 | 0 | 7 |
| marked | | | | | | 2 | 0 | 0 | 0 | 1 |
| CERVIX: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | | | | | | 10 | 0 | 0 | 0 | 10 |
| VAGINA: | | | | | | | | | | |
| NO. EXAMINED | | | | | | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | | | | | | 6 | 0 | 0 | 0 | 7 |
| -inflammation, chronic, focal | | | | | | [1] | [0] | [0] | [0] | [0] |
| minimal | | | | | | 1 | 0 | 0 | 0 | 0 |
| -mucification | | | | | | [4] | [0] | [0] | [0] | [3] |
| minimal | | | | | | 2 | 0 | 0 | 0 | 0 |
| mild | | | | | | 1 | 0 | 0 | 0 | 1 |
| moderate | | | | | | 1 | 0 | 0 | 0 | 2 |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | | | | | |
| -presence of corpora lutea | | | | | | 10 | 0 | 0 | 0 | 10 |
| -presence of growing/antral follicles | | | | | | 10 | 0 | 0 | 0 | 10 |
| PITUITARY: | | | | | | | | | | |
| NO. EXAMINED | 10 | 0 | 0 | 0 | 8 | 10 | 0 | 0 | 0 | 10 |
| NO. NORMAL | 10 | 0 | 0 | 0 | 6 | 10 | 0 | 0 | 0 | 9 |
| -cyst(s), pars distalis | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| -cyst(s), pars intermedia | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| CECUM: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -distention | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| marked | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -edema/inflammation, submucosa | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| mild | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| COLON: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

TABLE 3 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 17 | 13 | 19 | 26 | 25 | 12 | 5 | 1 | 1 | 11 |
| COLON (Continued): | | | | | | | | | | |
| -distention | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| marked | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| EAR(S): | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 1 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -chondropathy, auricular | [0] | [0] | [0] | [1] | [0] | [3] | [0] | [0] | [0] | [1] |
| moderate | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| marked | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 1 |
| EYES: | | | | | | | | | | |
| NO. EXAMINED | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| NO. NORMAL | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| -abscess, periocular | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| -atrophy, iris/ciliary body | [1] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| marked | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -atrophy, retinal, focal | [1] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| mild | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -inflammation, chronic, iris | [2] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -neuropathy, optic nerve(s) | [2] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ILEUM: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -Advanced autolysis precludes evaluation | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -distention | [0] | [0] | [0] | [0] | [0] | [0] | [1] | [0] | [0] | [0] |
| marked | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| KIDNEYS: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 1 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -dilatation, pelvis | [0] | [0] | [0] | [3] | [0] | [0] | [0] | [1] | [0] | [1] |
| mild | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| moderate | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| -hyperplasia, pelvic/papillary urothelium | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

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TABLE 3 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 17 | 13 | 19 | 26 | 25 | 12 | 5 | 1 | 1 | 11 |
| KIDNEYS (Continued): | | | | | | | | | | |
| -mineralization, pelvis | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -pyelonephritis | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [1] |
| moderate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| SKIN (GROSS LESION): | | | | | | | | | | |
| NO. EXAMINED | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -dermatitis, chronic | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -dermatitis, ulcerative | [1] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SPLEEN: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -atrophy | [0] | [0] | [0] | [0] | [1] | [1] | [0] | [0] | [0] | [0] |
| marked | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| -necrosis | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| marked | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| STOMACH: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -erosion(s), glandular mucosa | [0] | [0] | [0] | [1] | [0] | [0] | [1] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| mild | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| -peritonitis, focal | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| minimal | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -ulcer(s), glandular area | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| TAIL: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 1 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| -abscess | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -constriction, focal | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

[ ] = Total incidence of specified lesion, all grades.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE 3 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

| Dose Group: | I | II | III | IV | V | I | II | III | IV | V |
|---|---|---|---|---|---|---|---|---|---|---|
| Sex: | M | M | M | M | M | F | F | F | F | F |
| Number of Animals/Group: | 17 | 13 | 19 | 26 | 25 | 12 | 5 | 1 | 1 | 11 |
| TAIL (Continued): | | | | | | | | | | |
| -hyperplasia/hyperkeratosis | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| moderate | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -inflammation, chronic | [0] | [0] | [0] | [0] | [0] | [0] | [1] | [0] | [0] | [1] |
| minimal | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| mild | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -necrosis, focal | [0] | [0] | [0] | [0] | [0] | [0] | [1] | [0] | [0] | [1] |
| mild | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| THYMUS: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -atrophy | [0] | [0] | [0] | [1] | [0] | [0] | [0] | [0] | [0] | [0] |
| marked | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| URETER: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -distention | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [1] |
| marked | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -hyperplasia, mucosa | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [1] |
| moderate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| -inflammation, chronic | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [1] |
| mild | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| URINARY BLADDER: | | | | | | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NO. NORMAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -cystitis, hyperplastic | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [0] | [1] |
| marked | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

[ ] = Total incidence of specified lesion, all grades.

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TABLE 4

Incidence and Degree of Severity of Histomorphologic Observations - Reduced Fertility Animals
F1 Generation

| Dose Group: | I | II | III | IV | V |
|---|---|---|---|---|---|
| Sex: | M | M | M | M | M |
| Number of Animals/Group: | 2 | 3 | 2 | 2 | 1 |
| ADRENAL GLANDS: | | | | | |
| NO. EXAMINED | 0 | 0 | 0 | 1 | 0 |
| NO. NORMAL | 0 | 0 | 0 | 1 | 0 |
| TESTIS: | | | | | |
| NO. EXAMINED | 2 | 3 | 2 | 2 | 1 |
| NO. NORMAL | 2 | 3 | 2 | 2 | 1 |
| EPIDIDYMIS: | | | | | |
| NO. EXAMINED | 2 | 3 | 2 | 2 | 1 |
| NO. NORMAL | 2 | 3 | 2 | 2 | 0 |
| -infiltration, mononuclear-cell, focal | [0] | [0] | [0] | [0] | [1] |
| minimal | 0 | 0 | 0 | 0 | 1 |
| PROSTATE: | | | | | |
| NO. EXAMINED | 2 | 3 | 2 | 2 | 1 |
| NO. NORMAL | 2 | 2 | 1 | 1 | 1 |
| -atrophy, focal | [0] | [0] | [0] | [1] | [0] |
| minimal | 0 | 0 | 0 | 1 | 0 |
| -inflammation, chronic | [0] | [1] | [1] | [0] | [0] |
| minimal | 0 | 1 | 0 | 0 | 0 |
| mild | 0 | 0 | 1 | 0 | 0 |
| SEMINAL VESICLES: | | | | | |
| NO. EXAMINED | 2 | 3 | 2 | 2 | 1 |
| NO. NORMAL | 2 | 3 | 2 | 2 | 1 |
| COAGULATING GLAND: | | | | | |
| NO. EXAMINED | 2 | 3 | 2 | 2 | 1 |
| NO. NORMAL | 2 | 3 | 2 | 2 | 1 |

[ ] = Total incidence of specified lesion, all grades.

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS PROTOCOL 418-020 HISTOPATHOLOGY REPORT

## APPENDIX I

## HISTOMORPHOLOGIC OBSERVATIONS

## P GENERATION

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS PROTOCOL 418-020 HISTOPATHOLOGY REPORT

## KEY TO HISTOMORPHOLOGIC OBSERVATIONS

| | | |
|---|---|---|
| - | = | No change (not remarkable, within normal histologic limits or indicated change not present). |
| * | = | Tissue not available (specified tissue missing, insufficient tissue in plane of section, artifact precludes evaluation, or specified tissue not present in section). |
| < > | = | Microscopic finding(s) in tissue(s) with gross observation(s). |
| <-> | = | Within normal limits [no microscopic change(s) to correlate with the gross observation(s)]. |
| ( ) | = | Only one of a pair of organs available for processing/evaluation. |
| A | = | Advanced autolysis precludes evaluation. |
| P | = | Indicated change or lesion present. |
| 1 | = | Minimal degree or amount of indicated change or lesion. |
| 2 | = | Mild degree or amount of indicated change or lesion. |
| 3 | = | Moderate degree or amount of indicated change or lesion. |
| 4 | = | Marked degree or amount of indicated change or lesion. |

| | | |
|---|---|---|
| SS | = | Sacrifice-Scheduled |
| SD | = | Spontaneous Death |
| SM | = | Sacrifice-Moribund |
| SSRF | = | Scheduled (Reduced Fertility) |

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TABLE I-1

Histomorphologic Observations
P Generation

| Dose Group: | I | I | I | I | I | I | I |
|---|---|---|---|---|---|---|---|
| Animal Number: | 13602 | 13609 | 13610 | 13611 | 13612 | 13614 | 13615 |
| Sex: | M | M | M | M | M | M | M |
| Death Type: | SS | SSRF | SSRF | SSRF | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | | |
| -vacuolation, cortex | - | | | | - | - | 2 |
| PITUITARY: | - | | | | - | - | - |
| TESTIS: | | | | | | | |
| -atrophy/degeneration, multifocal | - | 3 | - | - | - | - | - |
| EPIDIDYMIS: | | | | | | | |
| -infiltration, mononuclear-cell, focal | 1 | - | - | - | - | - | - |
| PROSTATE: | | | | | | | |
| -atrophy, focal | - | 2 | 1 | 1 | - | - | - |
| -dilatation, glandular, focal | - | - | - | - | - | - | 3 |
| -inflammation, chronic | 1 | - | - | 1 | - | 2 | - |
| -inflammation, suppurative, focal | - | - | - | - | - | - | 1 |
| SEMINAL VESICLES: | - | - | - | - | - | - | - |
| COAGULATING GLAND: | - | - | - | - | - | - | - |
| LUNG: | | | | | | | |
| -hemorrhage, multifocal | | | | | | <3> | |
| -inflammation, interstitial, multifocal | | | | | | <3> | |

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TABLE I-1 (Continued)

Histomorphologic Observations
P Generation

| Dose Group: | I | I | I | I | I | I |
|---|---|---|---|---|---|---|
| Animal Number: | 13616 | 13621 | 13622 | 13624 | 13625 | 13626 |
| Sex: | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | |
| -vacuolation, cortex | - | - | - | - | 1 | 2 |
| PITUITARY: | - | - | - | - | - | - |
| TESTIS: | - | - | - | - | - | - |
| EPIDIDYMIS: | | | | | | |
| -infiltration, mononuclear-cell, focal | - | - | - | 1 | - | 1 |
| PROSTATE: | | | | | | |
| -dilatation, glandular, focal | - | - | - | 2 | - | - |
| -inflammation, chronic | - | - | 2 | 1 | - | - |
| -inflammation, suppurative, focal | - | - | - | - | 2 | - |
| SEMINAL VESICLES: | - | - | - | - | - | - |
| COAGULATING GLAND: | - | - | - | - | - | - |
| EAR(S): | <*> | | | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-2

Histomorphologic Observations
P Generation

| Dose Group: | II | II | II | II | II | II | II | II |
|---|---|---|---|---|---|---|---|---|
| Animal Number: | 13632 | 13636 | 13638 | 13639 | 13642 | 13644 | 13645 | 13646 |
| Sex: | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SSRF | SSRF | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | | | |
| -vacuolation, cortex | - | | | | - | - | - | 1 |
| TESTIS: | | | | | | | | |
| -dilatation, rete testis | | <P> | - | - | | | | |
| -hypoplasia, diffuse | | <4> | - | - | | | | |
| EPIDIDYMIS: | | | | | | | | |
| -atrophy | | <1> | - | - | | | | |
| -exfoliated spermatogenic cells | | - | 2 | - | | | | |
| -hypospermia | | <4> | - | - | | | | |
| -infiltration, mononuclear-cell, focal | | <1> | - | 1 | | | | |
| PROSTATE: | | | | | | | | |
| -inflammation, chronic | | | - | 2 | | | | |
| SEMINAL VESICLES: | | | - | - | | | | |
| COAGULATING GLAND: | | | - | - | | | | |
| EAR(S): | | | | | | | | |
| -chondropathy, auricular | | | <3> | | | | | |
| KIDNEYS: | | | | | | | | |
| -dilatation, pelvis | | | | <1> | | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-2 (Continued)

Histomorphologic Observations
P Generation

| Dose Group: | II | II | II | II | II | II | II |
|---|---|---|---|---|---|---|---|
| Animal Number: | 13650 | 13651 | 13652 | 13653 | 13654 | 13655 | 13656 |
| Sex: | M | M | M | M | M | M | M |
| Death Type: | SSRF | SS | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | | |
| -vacuolation, cortex | | 1 | - | | - | - | - |
| TESTIS: | - | | | | | | |
| EPIDIDYMIS: | | | | | | | |
| -infiltration, mononuclear-cell, focal | 2 | | | | | | |
| PROSTATE: | | | | | | | |
| -inflammation, chronic | 1 | | | | | | |
| SEMINAL VESICLES: | - | | | | | | |
| COAGULATING GLAND: | - | | | | | | |
| EAR(S): | | | | | | | |
| -chondropathy, auricular | | | | <3> | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-3

Histomorphologic Observations
P Generation

| Dose Group: | III | III | III | III | III | III | III |
|---|---|---|---|---|---|---|---|
| Animal Number: | 13661 | 13662 | 13668 | 13670 | 13671 | 13672 | 13673 |
| Sex: | M | M | M | M | M | M | M |
| Death Type: | SS | SSRF | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | | |
| -vacuolation, cortex | 1 | - | - | | - | | - |
| TESTIS: | | - | | | | | |
| EPIDIDYMIS: | | - | | | | | |
| PROSTATE: | | - | | | | | |
| SEMINAL VESICLES: | | - | | | | | |
| COAGULATING GLAND: | | - | | | | | |
| KIDNEYS: | | | | | | | |
| -dilatation, pelvis | | | | <3> | | <1> | |

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TABLE I-3 (Continued)

Histomorphologic Observations
P Generation

| Dose Group: | III | III | III | III | III | III |
|---|---|---|---|---|---|---|
| Animal Number: | 13674 | 13675 | 13676 | 13682 | 13683 | 13684 |
| Sex: | M | M | M | M | M | M |
| Death Type: | SSRF | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | |
| -vacuolation, cortex | | 2 | - | 1 | 3 | - |
| TESTIS: | - | | | | | |
| EPIDIDYMIS: | | | | | | |
| -exfoliated spermatogenic cells | 3 | | | | | |
| -hypospermia | 2 | | | | | |
| PROSTATE: | - | | | | | |
| SEMINAL VESICLES: | - | | | | | |
| COAGULATING GLAND: | - | | | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-4

Histomorphologic Observations
P Generation

| Dose Group: | IV | IV | IV | IV | IV | IV | IV |
|---|---|---|---|---|---|---|---|
| Animal Number: | 13693 | 13695 | 13699 | 13700 | 13703 | 13704 | 13706 |
| Sex: | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SSRF | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | | |
| -vacuolation, cortex | - | - | - | | - | - | 1 |
| TESTIS: | | | | | | | |
| -dilatation, rete testis | | | | - | | | <P> |
| -hypoplasia, diffuse | | | | - | | | <4> |
| EPIDIDYMIS: | | | | | | | |
| -atrophy | | | | - | | | <2> |
| -hypospermia | | | | - | | | <4> |
| -infiltration, mononuclear-cell, focal | | | | - | | | <1> |
| PROSTATE: | | | | | | | |
| -inflammation, chronic | | | | 2 | | | |
| SEMINAL VESICLES: | | | | - | | | |
| COAGULATING GLAND: | | | | - | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-4 (Continued)

Histomorphologic Observations
P Generation

| Dose Group: | IV | IV | IV | IV | IV | IV |
|---|---|---|---|---|---|---|
| Animal Number: | 13708 | 13710 | 13711 | 13716 | 13717 | 13719 |
| Sex: | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | |
| -hypertrophy/vacuolation, zona glomerulosa | - | | 1 | 1 | | - |
| EAR(S): | | | | | | |
| -chondropathy, auricular | | <3> | | | | |
| KIDNEYS: | | | | | | |
| -dilatation, pelvis | | | | | <1> | |
| -hyperplasia, pelvic/papillary epithelium, focal | | | | | <2> | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-5

Histomorphologic Observations
P Generation

| Dose Group: | V | V | V | V | V | V | V | V |
|---|---|---|---|---|---|---|---|---|
| Animal Number: | 13721 | 13722 | 13728 | 13729 | 13731 | 13732 | 13733 | 13734 |
| Sex: | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SSRF | SS | SM | SSRF | SS |
| ADRENAL GLANDS: | | | | | | | | |
| -hypertrophy/vacuolation, zona glomerulosa | 1 | 3 | 3 | | 2 | | | - |
| -vacuolation, cortex | - | - | 1 | | - | | | 1 |
| PITUITARY: | - | - | - | | - | | | - |
| TESTIS: | | | | | | | | |
| -atrophy/degeneration, multifocal | - | - | - | - | - | <4> | - | - |
| EPIDIDYMIS: | | | | | | | | |
| -atrophy | - | - | - | - | - | | <3> | - |
| -exfoliated spermatogenic cells | - | - | - | - | - | | <1> | - |
| -hypospermia | - | - | - | - | - | | 4 | - |
| -infiltration, mononuclear-cell, focal | 1 | 1 | - | - | - | | - | - |
| PROSTATE: | | | | | | | | |
| -dilatation, glandular, focal | - | 2 | - | - | 1 | | - | - |
| -inflammation, chronic | 2 | - | - | - | 2 | | - | - |
| -inflammation, suppurative, focal | - | - | - | - | - | | - | 1 |
| SEMINAL VESICLES: | - | - | - | - | - | | - | - |
| COAGULATING GLAND: | - | - | - | - | - | | - | - |
| KIDNEYS: | | | | | | | | |
| -dilatation, pelvis | | | | <-> | | | <2> | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-5 (Continued)

Histomorphologic Observations
P Generation

| Dose Group: | V | V | V | V | V | V | V |
|---|---|---|---|---|---|---|---|
| Animal Number: | 13735 | 13736 | 13741 | 13742 | 13743 | 13744 | 13750 |
| Sex: | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SSRF | SS | SS | SS | SSRF |
| ADRENAL GLANDS: | | | | | | | |
| -hypertrophy/vacuolation, zona glomerulosa | - | 3 | | 2 | 3 | - | |
| -vacuolation, cortex | - | - | | 1 | - | - | |
| PITUITARY: | - | - | | - | - | - | |
| TESTIS: | | | | | | | |
| -atrophy/degeneration, multifocal | - | - | <3> | - | - | - | <-> |
| -dilatation, rete testis | - | - | <P> | - | - | - | <-> |
| EPIDIDYMIS: | | | | | | | |
| -exfoliated spermatogenic cells | - | - | <3> | - | - | - | - |
| -hypospermia | - | - | <4> | - | - | - | - |
| PROSTATE: | | | | | | | |
| -atrophy, focal | 2 | - | - | - | - | - | 1 |
| -inflammation, chronic | - | 1 | - | - | 1 | - | - |
| SEMINAL VESICLES: | - | - | - | - | - | - | - |
| COAGULATING GLAND: | - | - | - | - | - | - | - |

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TABLE I-6

Histomorphologic Observations
P Generation

| Dose Group: | I | I | I | I | I | I | I |
|---|---|---|---|---|---|---|---|
| Animal Number: | 13802 | 13804 | 13809 | 13811 | 13812 | 13814 | 13815 |
| Sex: | F | F | F | F | F | F | F |
| Death Type: | SS | SM | SS | SSRF | SS | SS | SS |
| ADRENAL GLANDS: | - | | - | | - | | - |
| PITUITARY: | | | | | | | |
| -cyst(s), pars intermedia | P | | - | | - | | - |
| OVARIES: | | | | | | | |
| -cyst(s), intraovarian | - | | - | P | - | | - |
| OVIDUCT(S): | - | | - | - | * | | - |
| UTERUS: | | | | | | | |
| -distention, lumen | 2 | | - | - | - | | - |
| -macrophages, pigmented | 3 | | 3 | - | 3 | | 3 |
| CERVIX: | - | | - | - | - | | - |
| VAGINA: | | | | | | | |
| -mucification | 3 | | - | 2 | - | | - |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | | |
| -presence of corpora lutea | P | | P | P | P | | P |
| -presence of growing/antral follicles | P | | P | P | P | | P |
| EAR(S): | | | | | | | |
| -chondropathy, auricular | | | | | | <3> | |
| PALATE: | | | | | | | |
| -fracture | | <P> | | | | | |
| -hemorrhage | | <4> | | | | | |

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TABLE I-6 (Continued)

Histomorphologic Observations
P Generation

| Dose Group: | I | I | I | I | I | I |
|---|---|---|---|---|---|---|
| Animal Number: | 13816 | 13821 | 13822 | 13824 | 13825 | 13826 |
| Sex: | F | F | F | F | F | F |
| Death Type: | SS | SS | SM | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | |
| -degeneration, cystic, cortex | 1 | - | - | - | - | - |
| -hypertrophy/vacuolation, zona glomerulosa | - | 1 | - | - | - | - |
| PITUITARY: | - | - | - | - | - | - |
| OVARIES: | | | | | | |
| -cyst(s), intraovarian | - | P | - | - | - | - |
| -cystic bursa(e) | - | - | - | - | - | P |
| OVIDUCT(S): | - | - | - | - | - | - |
| UTERUS: | | | | | | |
| -macrophages, pigmented | 1 | 2 | 3 | 3 | 3 | 1 |
| CERVIX: | - | - | - | - | - | - |
| VAGINA: | - | - | - | - | - | * |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | |
| -presence of corpora lutea | P | P | P | P | P | P |
| -presence of growing/antral follicles | P | P | P | P | P | P |
| EAR(S): | | | | | | |
| -chondropathy, auricular | | | | | <4> | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-7

Histomorphologic Observations
P Generation

| Dose Group: | II | II | II | II |
|---|---|---|---|---|
| Animal Number: | 13836 | 13840 | 13851 | 13856 |
| Sex: | F | F | F | F |
| Death Type: | SM | SSRF | SSRF | SS |
| OVARIES: | | - | - | |
| OVIDUCT(S): | | - | - | |
| UTERUS: | | | | |
| -distention, lumen | | - | 4 | |
| CERVIX: | | - | - | |
| VAGINA: | | - | - | |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | |
| -presence of corpora lutea | | P | P | |
| -presence of growing/antral follicles | | P | P | |
| EAR(S): | | | | |
| -chondropathy, auricular | | | | <4> |
| EXTREMITIES: | | | | |
| -fracture | <P> | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-8

Histomorphologic Observations
P Generation

| Dose Group: | III | III | III |
|---|---|---|---|
| Animal Number: | 13862 | 13869 | 13885 |
| Sex: | F | F | F |
| Death Type: | SSRF | SS | SS |
| OVARIES: | - | | |
| OVIDUCT(S): | - | | |
| UTERUS: | - | | |
| CERVIX: | - | | |
| VAGINA: | - | | |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | |
| -presence of corpora lutea | P | | |
| -presence of growing/antral follicles | P | | |
| EAR(S): | | | |
| -chondropathy, auricular | <4> | | |
| EYES: | | | |
| -cataract | | <P> | |
| -keratitis, chronic | | <3> | |
| KIDNEYS: | | | <*> |

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TABLE I-9

Histomorphologic Observations
P Generation

| Dose Group: | IV | IV | IV | IV |
|---|---|---|---|---|
| Animal Number: | 13898 | 13900 | 13901 | 13908 |
| Sex: | F | F | F | F |
| Death Type: | SS | SSRF | SS | SS |
| OVARIES: | | * | | |
| OVIDUCT(S): | | * | | |
| UTERUS: | | * | | |
| CERVIX: | | * | | |
| VAGINA: | | * | | |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | * | | |
| EAR(S): | | | | |
| -chondropathy, auricular | <4> | | <3> | <2> |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE I-10

Histomorphologic Observations
P Generation

| Dose Group: | V | V | V | V | V | V | V |
|---|---|---|---|---|---|---|---|
| Animal Number: | 13921 | 13922 | 13927 | 13928 | 13929 | 13933 | 13934 |
| Sex: | F | F | F | F | F | F | F |
| Death Type: | SS | SS | SS | SS | SSRF | SS | SS |
| ADRENAL GLANDS: | | | | | | | |
| -degeneration, cystic, cortex | - | - | | - | | 1 | - |
| PITUITARY: | - | - | | - | | - | - |
| OVARIES: | | | | | | | |
| -cyst(s), intraovarian | - | - | | - | P | - | - |
| OVIDUCT(S): | - | - | | - | - | - | - |
| UTERUS: | | | | | | | |
| -distention, lumen | - | - | | 2 | 3 | - | - |
| -gland(s), endometrial, cystic | - | - | | - | - | P | - |
| -macrophages, pigmented | 3 | 3 | | 2 | - | 2 | 3 |
| CERVIX: | - | - | | * | - | - | - |
| VAGINA: | - | - | | * | - | - | - |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | | |
| -absence of corpora lutea | - | - | | - | P | - | - |
| -presence of corpora lutea | P | P | | P | - | P | P |
| -presence of growing/antral follicles | P | P | | P | P | P | P |
| EAR(S): | | | | | | | |
| -chondropathy, auricular | | | <4> | | | | |

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TABLE I-10 (Continued)

Histomorphologic Observations
P Generation

| Dose Group: | V | V | V | V | V | V |
|---|---|---|---|---|---|---|
| Animal Number: | 13935 | 13936 | 13942 | 13943 | 13944 | 13946 |
| Sex: | F | F | F | F | F | F |
| Death Type: | SS | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | - | - | - | - | - | |
| PITUITARY: | - | - | - | - | - | |
| OVARIES: | - | - | - | - | - | |
| OVIDUCT(S): | - | - | - | - | - | |
| UTERUS: | | | | | | |
| -distention, lumen | - | - | - | - | 1 | |
| -macrophages, pigmented | 1 | 4 | 3 | 3 | 3 | |
| CERVIX: | | | | | | |
| -dilatation | - | 3 | - | - | - | |
| VAGINA: | - | - | - | - | - | |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | |
| -presence of corpora lutea | P | P | P | P | P | |
| -presence of growing/antral follicles | P | P | P | P | P | |
| EAR(S): | | | | | | |
| -chondropathy, auricular | | | | | | <3> |

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS PROTOCOL 418-020 HISTOPATHOLOGY REPORT

## APPENDIX II

## HISTOMORPHOLOGIC OBSERVATIONS

## F1 GENERATION

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS PROTOCOL 418-020 HISTOPATHOLOGY REPORT

## KEY TO HISTOMORPHOLOGIC OBSERVATIONS

| | | |
|---|---|---|
| - | = | No change (not remarkable, within normal histologic limits or indicated change not present). |
| * | = | Tissue not available (specified tissue missing, insufficient tissue in plane of section, artifact precludes evaluation, or specified tissue not present in section). |
| < > | = | Microscopic finding(s) in tissue(s) with gross observation(s). |
| <-> | = | Within normal limits [no microscopic change(s) to correlate with the gross observation(s)]. |
| ( ) | = | Only one of a pair of organs available for processing/evaluation. |
| A | = | Advanced autolysis precludes evaluation. |
| P | = | Indicated change or lesion present. |
| 1 | = | Minimal degree or amount of indicated change or lesion. |
| 2 | = | Mild degree or amount of indicated change or lesion. |
| 3 | = | Moderate degree or amount of indicated change or lesion. |
| 4 | = | Marked degree or amount of indicated change or lesion. |

| | | |
|---|---|---|
| SS | = | Sacrifice-Scheduled |
| SD | = | Spontaneous Death |
| SM | = | Sacrifice-Moribund |
| SSRF | = | Scheduled (Reduced Fertility) |

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TABLE II-1

Histomorphologic Observations
F1 Generation

| Dose Group: | I | I | I | I | I | I | I | I | I |
|---|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1003 | 1012 | 1017 | 1018 | 1019 | 1020 | 1022 | 1024 | 1026 |
| Sex: | M | M | M | M | M | M | M | M | M |
| Death Type: | SS | SSRF | SS | SM | SM | SM | SS | SD | SS |
| ADRENAL GLANDS: | | | | | | | | | |
| -vacuolation, cortex | - | | 1 | | | | | | 1 |
| TESTIS: | - | - | - | | | | | | - |
| EPIDIDYMIS: | | | | | | | | | |
| -infiltration, mononuclear-cell, focal | 1 | - | - | | | | | | - |
| PROSTATE: | - | - | - | | | | | | - |
| SEMINAL VESICLES: | - | - | - | | | | | | - |
| COAGULATING GLAND: | - | - | - | | | | | | - |
| PITUITARY: | - | | - | | | | | | - |
| EYES: | | | | | | | | | |
| -atrophy, iris/ciliary body | | | | - | - | <-> | | | <4> |
| -atrophy, retinal, focal | | | | - | - | <-> | | | <2> |
| -inflammation, chronic, iris | | | | <3> | <3> | <-> | | | - |
| -neuropathy, optic nerve(s) | | | | <3> | <3> | <-> | | | - |
| SKIN (GROSS LESION): | | | | | | | | | |
| -dermatitis, ulcerative | | | | | | | <3> | | |

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TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | I | I | I | I | I | I | I | I |
|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1034 | 1035 | 1040 | 1047 | 1048 | 1051 | 1052 | 1054 |
| Sex: | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SSRF | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | | | |
| -vacuolation, cortex | - | - | | - | - | 1 | 1 | - |
| TESTIS: | | | | | | | | |
| -atrophy/degeneration, multifocal | - | - | - | - | - | 1 | - | - |
| EPIDIDYMIS: | | | | | | | | |
| -infiltration, mononuclear-cell, focal | - | - | - | 1 | - | - | - | - |
| PROSTATE: | | | | | | | | |
| -dilatation, glandular, focal | - | - | - | 2 | - | - | - | - |
| -inflammation, chronic | - | - | - | 2 | - | - | - | 1 |
| SEMINAL VESICLES: | - | - | - | - | - | - | - | - |
| COAGULATING GLAND: | - | - | - | - | - | - | - | - |
| PITUITARY: | - | - | | - | - | - | - | - |

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TABLE II-2

Histomorphologic Observations
F1 Generation

| Dose Group: | II | II | II | II | II | II | II |
|---|---|---|---|---|---|---|---|
| Animal Number: | 1063 | 1066 | 1077 | 1078 | 1082 | 1096 | 1098 |
| Sex: | M | M | M | M | M | M | M |
| Death Type: | SS | SSRF | SSRF | SS | SSRF | SS | SS |
| TESTIS: | | - | - | | <-> | | |
| EPIDIDYMIS: | | - | - | | <-> | | |
| PROSTATE: | | | | | | | |
| -inflammation, chronic | | - | 1 | | - | | |
| SEMINAL VESICLES: | | - | - | | - | | |
| COAGULATING GLAND: | | - | - | | - | | |
| ADRENAL GLANDS: | | | | | | | |
| -vacuolation, cortex | - | | | 1 | | - | - |

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TABLE II-2 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | II | II | II | II | II | II |
|---|---|---|---|---|---|---|
| Animal Number: | 1100 | 1106 | 1107 | 1116 | 1118 | 1120 |
| Sex: | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | |
| -vacuolation, cortex | 1 | - | 1 | - | - | 1 |

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TABLE II-3

Histomorphologic Observations
F1 Generation

| Dose Group: | III | III | III | III | III | III | III | III | III | III |
|---|---|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1123 | 1124 | 1125 | 1126 | 1128 | 1129 | 1134 | 1136 | 1142 | 1149 |
| Sex: | M | M | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SS | SS | SS | SS | SSRF | SS |
| TESTIS: | | | | | | | | | - | |
| EPIDIDYMIS: | | | | | | | | | - | |
| PROSTATE: | | | | | | | | | | |
| -inflammation, chronic | | | | | | | | | 2 | |
| SEMINAL VESICLES: | | | | | | | | | - | |
| COAGULATING GLAND: | | | | | | | | | - | |
| ADRENAL GLANDS: | | | | | | - | - | - | | - |
| LIVER: | | | | | | | | | | |
| -hematopoiesis, extramedullary, multifocal | | <1> | - | - | - | | | | | |
| -hypertrophy, hepatocellular, diffuse | | <3> | <3> | <2> | <3> | | | | | |
| -inflammation, chronic, focal/multifocal | | - | <2> | <1> | - | | | | | |
| -necrosis, focal/multifocal | | <2> | - | - | - | | | | | |
| SKIN (GROSS LESION): | | | | | | | | | | |
| -dermatitis, chronic | | | | <3> | | | | | | |
| -dermatitis, ulcerative | | | | <3> | | | | | | |

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TABLE II-3 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | III | III | III | III | III | III | III | III | III |
|---|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1154 | 1156 | 1159 | 1164 | 1165 | 1167 | 1175 | 1177 | 1180 |
| Sex: | M | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SS | SSRF | SS | SS | SS |
| TESTIS: | | | | | | - | | | |
| EPIDIDYMIS: | | | | | | - | | | |
| PROSTATE: | | | | | | - | | | |
| SEMINAL VESICLES: | | | | | | - | | | |
| COAGULATING GLAND: | | | | | | - | | | |
| ADRENAL GLANDS: | | | | | | | | | |
| -vacuolation, cortex | - | | - | - | | | - | 1 | - |
| LIVER: | | | | | | | | | |
| -hypertrophy, hepatocellular, diffuse | | <2> | | | <3> | | | | |

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TABLE II-4

Histomorphologic Observations
F1 Generation

| Dose Group: | IV | IV | IV | IV | IV | IV | IV | IV | IV |
|---|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1182 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1197 | 1198 |
| Sex: | M | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SSRF | SS | SS | SS | SS |
| TESTIS: | | | | | - | | | | |
| EPIDIDYMIS: | | | | | - | | | | |
| PROSTATE: | | | | | | | | | |
| -atrophy, focal | | | | | 1 | | | | |
| SEMINAL VESICLES: | | | | | - | | | | |
| COAGULATING GLAND: | | | | | - | | | | |
| ADRENAL GLANDS: | - | - | | | - | | - | | - |
| LIVER: | | | | | | | | | |
| -hypertrophy, hepatocellular, diffuse | | | <3> | <3> | | <3> | | | |
| -inflammation, chronic, focal/multifocal | | | <1> | - | | - | | | |
| -necrosis, single-cell | | | <1> | - | | - | | | |
| TAIL: | | | | | | | | | |
| -abscess | | | | | | | | <P> | |
| -hyperplasia/hyperkeratosis | | | | | | | | <3> | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | IV | IV | IV | IV | IV | IV | IV | IV | IV |
|---|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1200 | 1205 | 1206 | 1207 | 1211 | 1212 | 1217 | 1218 | 1223 |
| Sex: | M | M | M | M | M | M | M | M | M |
| Death Type: | SM | SS | SS | SSRF | SS | SS | SS | SS | SS |
| TESTIS: | | | | - | | | | | |
| EPIDIDYMIS: | | | | - | | | | | |
| PROSTATE: | | | | - | | | | | |
| SEMINAL VESICLES: | | | | - | | | | | |
| COAGULATING GLAND: | | | | - | | | | | |
| ADRENAL GLANDS: | | | | | | | | | |
| -vacuolation, cortex | | | | | - | - | 1 | | |
| CECUM: | | | | | | | | | |
| -distention | <4> | | | | | | | | |
| -edema/inflammation, submucosa | <2> | | | | | | | | |
| COLON: | | | | | | | | | |
| -distention | <4> | | | | | | | | |
| ILEUM: | <A> | | | | | | | | |
| LIVER: | | | | | | | | | |
| -hematopoiesis, extramedullary, multifocal | | - | - | | | | | <1> | - |
| -hypertrophy, hepatocellular, diffuse | | <3> | <2> | | | | | <2> | <2> |
| -necrosis, focal/multifocal | | <2> | - | | | | | <1> | - |
| STOMACH: | | | | | | | | | |
| -erosion(s), glandular mucosa | <1> | | | | | | | | |
| -peritonitis, focal | <1> | | | | | | | | |
| -ulcer(s), glandular area | <3> | | | | | | | | |
| THYMUS: | | | | | | | | | |
| -atrophy | <4> | | | | | | | | |

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TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | IV | IV | IV | IV | IV | IV | IV | IV |
|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1224 | 1225 | 1229 | 1232 | 1234 | 1235 | 1236 | 1240 |
| Sex: | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SS | SS | SS | SS |
| ADRENAL GLANDS: | | | | | | | | |
| -vacuolation, cortex | | 1 | | | | | - | |
| EAR(S): | | | | | | | | |
| -chondropathy, auricular | | | <4> | | | | | |
| KIDNEYS: | | | | | | | | |
| -dilatation, pelvis | <3> | | | <2> | | | | <2> |
| -hyperplasia, pelvic/papillary urothelium | - | | | - | | | | <1> |
| -mineralization, pelvis | - | | | - | | | | <1> |
| LIVER: | | | | | | | | |
| -hypertrophy, hepatocellular, diffuse | | | | | <3> | <3> | | |
| -inflammation, chronic, focal/multifocal | | | | | <2> | - | | |
| -necrosis, focal/multifocal | | | | | <2> | - | | |
| SPLEEN: | | | | | | | | |
| -necrosis | | | <4> | | | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-5

Histomorphologic Observations
F1 Generation

| Dose Group: | V | V | V | V | V | V | V | V | V |
|---|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1241 | 1243 | 1244 | 1250 | 1251 | 1254 | 1256 | 1262 | 1263 |
| Sex: | M | M | M | M | M | M | M | M | M |
| Death Type: | SS | SS | SS | SS | SS | SS | SS | SS | SD |
| TESTIS: | - | | - | | | - | | | |
| EPIDIDYMIS: | - | | - | | | - | | | |
| PROSTATE: | | | | | | | | | |
| -inflammation, chronic | - | | - | | | 1 | | | |
| SEMINAL VESICLES: | - | | - | | | - | | | |
| COAGULATING GLAND: | - | | - | | | - | | | |
| ADRENAL GLANDS: | | | | | | | | | |
| -hypertrophy/vacuolation, zona glomerulosa | 2 | | 1 | | | 2 | | | |
| -vacuolation, cortex | - | | 1 | | | - | | | |
| PITUITARY: | | | | | | | | | |
| -cyst(s), pars distalis | - | | P | | | - | | | |
| EYES: | | | | | | | | | <-> |
| LIVER: | | | | | | | | | |
| -hypertrophy, hepatocellular, diffuse | | | | | <3> | | <2> | <3> | |
| TAIL: | | | | | | | | | |
| -constriction, focal | | | | <-> | | | | <P> | |

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TABLE II-5 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | V | V | V | V | V | V | V | V | V |
|---|---|---|---|---|---|---|---|---|---|
| Animal Number: | 1264 | 1266 | 1268 | 1269 | 1270 | 1271 | 1273 | 1275 | 1276 |
| Sex: | M | M | M | M | M | M | M | M | M |
| Death Type: | SD | SS | SS | SS | SS | SS | SS | SM | SS |
| TESTIS: | | - | | - | | - | - | | |
| EPIDIDYMIS: | | | | | | | | | |
| -infiltration, mononuclear-cell, focal | | - | | - | | 1 | - | | |
| PROSTATE: | | | | | | | | | |
| -atrophy, focal | | - | | - | | 2 | - | | |
| -inflammation, suppurative | | 1 | | - | | - | - | | |
| SEMINAL VESICLES: | | - | | - | | - | - | | |
| COAGULATING GLAND: | | - | | - | | - | - | | |
| ADRENAL GLANDS: | | | | | | | | | |
| -hypertrophy/vacuolation, zona glomerulosa | | 2 | | - | | - | 1 | | |
| -vacuolation, cortex | | - | | - | | - | 1 | | |
| PITUITARY: | | | | | | | | | |
| -cyst(s), pars intermedia | | P | | - | | - | * | | |
| EYES: | <-> | | | | | | | | |
| LIVER: | | | | | | | | | |
| -hypertrophy, hepatocellular, diffuse | | | <4> | | | | | <2> | <3> |
| -inflammation, chronic, focal/multifocal | | | - | | | | | - | <1> |
| -necrosis, focal/multifocal | | | <2> | | | | | <2> | - |
| SPLEEN: | | | | | | | | | |
| -atrophy | | | | | | | | <4> | |
| TAIL: | | | | | <-> | | | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-5 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | V | V | V | V | V | V | V |
|---|---|---|---|---|---|---|---|
| Animal Number: | 1278 | 1279 | 1283 | 1287 | 1288 | 1293 | 1295 |
| Sex: | M | M | M | M | M | M | M |
| Death Type: | SSRF | SS | SS | SS | SS | SS | SS |
| TESTIS: | - | | | - | - | | |
| EPIDIDYMIS: | | | | | | | |
| -infiltration, mononuclear-cell, focal | 1 | | | 1 | - | | |
| PROSTATE: | - | | | - | - | | |
| SEMINAL VESICLES: | - | | | - | - | | |
| COAGULATING GLAND: | - | | | - | - | | |
| ADRENAL GLANDS: | | | | | | | |
| -hypertrophy/vacuolation, zona glomerulosa | | | | 1 | 2 | | |
| PITUITARY: | | | | - | - | | |
| LIVER: | | | | | | | |
| -hematopoiesis, extramedullary, multifocal | | - | <1> | | | - | - |
| -hypertrophy, hepatocellular, diffuse | | <3> | <2> | | | <3> | <3> |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-6

Histomorphologic Observations
F1 Generation

| Dose Group: | I | I | I | I | I | I |
|---|---|---|---|---|---|---|
| Animal Number: | 1312 | 1321 | 1328 | 1335 | 1340 | 1341 |
| Sex: | F | F | F | F | F | F |
| Death Type: | SS | SS | SS | SS | SS | SS |
| OVARIES: | - | - | - | - | - | |
| UTERUS: | | | | | | |
| -distention, lumen | - | - | - | - | 1 | |
| -macrophages, pigmented | - | 3 | 3 | 3 | 3 | |
| CERVIX: | - | - | - | - | - | |
| VAGINA: | | | | | | |
| -mucification | - | - | 2 | - | 3 | |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | |
| -presence of corpora lutea | P | P | P | P | P | |
| -presence of growing/antral follicles | P | P | P | P | P | |
| ADRENAL GLANDS: | - | - | - | - | - | |
| PITUITARY: | - | - | - | - | - | |
| EAR(S): | | | | | | |
| -chondropathy, auricular | | | | <4> | | <3> |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-6 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | I | I | I | I | I | I |
|---|---|---|---|---|---|---|
| Animal Number: | 1342 | 1345 | 1353 | 1355 | 1359 | 19780 |
| Sex: | F | F | F | F | F | F |
| Death Type: | SS | SS | SS | SS | SS | SS |
| OVARIES: | - | - | - | - | - | |
| UTERUS: | | | | | | |
| -distention, lumen | 2 | - | - | - | - | |
| -macrophages, pigmented | - | - | 4 | 4 | 2 | |
| CERVIX: | - | - | - | - | - | |
| VAGINA: | | | | | | |
| -inflammation, chronic, focal | - | 1 | - | - | - | |
| -mucification | - | 1 | - | - | 1 | |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | |
| -presence of corpora lutea | P | P | P | P | P | |
| -presence of growing/antral follicles | P | P | P | P | P | |
| ADRENAL GLANDS: | - | - | - | - | - | |
| PITUITARY: | - | - | - | - | - | |
| EAR(S): | | | | | | |
| -chondropathy, auricular | <4> | | | | | |
| SPLEEN: | | | | | | |
| -atrophy | | | | | | <4> |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-7

Histomorphologic Observations
F1 Generation

| Dose Group: | II | II | II | II | II |
|---|---|---|---|---|---|
| Animal Number: | 1365 | 1373 | 1374 | 1407 | 1415 |
| Sex: | F | F | F | F | F |
| Death Type: | SD | SD | SS | SS | SS |
| ILEUM: | | | | | |
| -distention | | <4> | | | |
| LIVER: | | | | | |
| -infarct, liver lobe | | | | | <P> |
| STOMACH: | | | | | |
| -erosion(s), glandular mucosa | | <2> | | | |
| TAIL: | | | | | |
| -inflammation, chronic | - | | <-> | <1> | |
| -necrosis, focal | <2> | | <-> | - | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-8

Histomorphologic Observations
F1 Generation

| Dose Group: | III |
|---|---|
| Animal Number: | 1428 |
| Sex: | F |
| Death Type: | SS |
| KIDNEYS: | |
| -dilatation, pelvis | <2> |

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TABLE II-9

Histomorphologic Observations
F1 Generation

| | |
|---|---|
| Dose Group: | IV |
| Animal Number: | 1495 |
| Sex: | F |
| Death Type: | SS |
| EYES: | |
| -abscess, periocular | <P> |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-10

Histomorphologic Observations
F1 Generation

| Dose Group: | V | V | V | V | V | V |
|---|---|---|---|---|---|---|
| Animal Number: | 1544 | 1546 | 1548 | 1551 | 1552 | 1557 |
| Sex: | F | F | F | F | F | F |
| Death Type: | SS | SS | SS | SS | SS | SS |
| OVARIES: | - | - | - | | - | - |
| UTERUS: | | | | | | |
| -distention, lumen | - | - | 3 | | 3 | - |
| -macrophages, pigmented | 3 | 4 | 3 | | 3 | 2 |
| CERVIX: | - | - | - | | - | - |
| VAGINA: | | | | | | |
| -mucification | - | - | - | | - | 3 |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | | |
| -presence of corpora lutea | P | P | P | | P | P |
| -presence of growing/antral follicles | P | P | P | | P | P |
| ADRENAL GLANDS: | | | | | | |
| -hyperplasia, cortical, focal | 1 | - | - | | - | - |
| PITUITARY: | | | | | | |
| -cyst(s), pars distalis | P | - | - | | - | - |
| EAR(S): | | | | | | |
| -chondropathy, auricular | | | <4> | | | |
| TAIL: | | | | | | |
| -inflammation, chronic | | | | <2> | | |
| -necrosis, focal | | | | <2> | | |

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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TABLE II-10 (Continued)

Histomorphologic Observations
F1 Generation

| Dose Group: | V | V | V | V | V |
|---|---|---|---|---|---|
| Animal Number: | 1573 | 1579 | 1589 | 1593 | 1598 |
| Sex: | F | F | F | F | F |
| Death Type: | SS | SS | SS | SS | SS |
| OVARIES: | | | | | |
| -cyst(s), intraovarian | - | - | - | P | - |
| UTERUS: | | | | | |
| -macrophages, pigmented | 3 | 1 | 3 | 3 | 3 |
| CERVIX: | - | - | - | - | - |
| VAGINA: | | | | | |
| -mucification | - | 3 | 2 | - | - |
| OVARIAN FOLLICLES/CORPORA LUTEA: | | | | | |
| -presence of corpora lutea | P | P | P | P | P |
| -presence of growing/antral follicles | P | P | P | P | P |
| ADRENAL GLANDS: | - | - | - | - | - |
| PITUITARY: | - | - | - | - | - |
| KIDNEYS: | | | | | |
| -dilatation, pelvis | | | | <3> | |
| -pyelonephritis | | | | <3> | |
| URETER: | | | | | |
| -distention | | | | <4> | |
| -hyperplasia, mucosa | | | | <3> | |
| -inflammation, chronic | | | | <2> | |
| URINARY BLADDER: | | | | | |
| -cystitis, hyperplastic | | | | <4> | |

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS PROTOCOL 418-020 HISTOPATHOLOGY REPORT

## APPENDIX III

## INDIVIDUAL ANIMAL GROSS AND HISTOMORPHOLOGY DATA

P Generation

## KEY TO CORRELATION OF HISTOMORPHOLOGIC OBSERVATIONS

Not applicable = Microscopic evaluation/correlation not appropriate or not required by protocol.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13602 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |
| PROSTATE: | inflammation, chronic (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | PITUITARY | SEMINAL VESICLES |
| TESTIS | | | |

End of Record- 13602

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13609 DOSE GROUP: I
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| PROSTATE: | atrophy, focal (mild) |
| TESTIS: | atrophy/degeneration, multifocal (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS SEMINAL VESICLES

End of Record- 13609

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13610
SEX: M

DOSE GROUP: I
DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: atrophy, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS SEMINAL VESICLES TESTIS

End of Record- 13610

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13611
SEX: M

DOSE GROUP: I
DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| PROSTATE: | inflammation, chronic (minimal)<br>atrophy, focal (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | SEMINAL VESICLES | TESTIS |

End of Record- 13611

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13612 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

End of Record- 13612

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13614 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LUNG: All lobes- dark red areas too numerous to count ranging in size from pinpoint to 0.2cm in diameter. | hemorrhage, multifocal<br>inflammation, interstitial, multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LUNG: | hemorrhage, multifocal (moderate)<br>inflammation, interstitial, multifocal (moderate) |
| PROSTATE: | inflammation, chronic (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 13614

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13615 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (mild) |
| PROSTATE: | inflammation, suppurative, focal (minimal) |
| | dilatation, glandular, focal (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 13615

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13616 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Swollen, both.

HISTOMORPHOLOGIC OBSERVATION(S):

Tissue not available

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

EAR(S)

End of Record- 13616

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13621
SEX: M

DOSE GROUP: I
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

End of Record- 13621

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13622 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: inflammation, chronic (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 13622

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13624 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |
| PROSTATE: | inflammation, chronic (minimal) |
| | dilatation, glandular, focal (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS COAGULATING GLAND PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 13624

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13625
SEX: M

DOSE GROUP: I
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)
PROSTATE: inflammation, suppurative, focal (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 13625

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13626 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (mild)
EPIDIDYMIS: infiltration, mononuclear-cell, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND PITUITARY PROSTATE SEMINAL VESICLES
TESTIS

End of Record- 13626

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13632
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13632

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13636
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EPIDIDYMIDES: Right- small and flaccid.

TESTES: Right- small and flaccid.

HISTOMORPHOLOGIC OBSERVATION(S):

atrophy, EPIDIDYMIS
hypospermia, EPIDIDYMIS
infiltration, mononuclear-cell, focal, EPIDIDYMIS
hypoplasia, diffuse, TESTIS
dilatation, rete testis, TESTIS

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | atrophy (minimal)<br>hypospermia (marked)<br>infiltration, mononuclear-cell, focal (minimal) |
| TESTIS: | hypoplasia, diffuse (marked)<br>dilatation, rete testis |

End of Record- 13636

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13638 | DOSE GROUP: II
SEX: M | DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, right. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EAR(S): | chondropathy, auricular (moderate) |
| EPIDIDYMIS: | exfoliated spermatogenic cells (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | PROSTATE | SEMINAL VESICLES | TESTIS |

End of Record- 13638

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13639 | DOSE GROUP: II
SEX: M | DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvis, slight dilation. | dilatation, pelvis |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |
| KIDNEYS: | dilatation, pelvis (minimal) |
| PROSTATE: | inflammation, chronic (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND SEMINAL VESICLES TESTIS

End of Record- 13639

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13642 | DOSE GROUP: II
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13642

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13644 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13644

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13645
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13645

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13646 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (minimal) |

End of Record- 13646

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13650 DOSE GROUP: II
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (mild) |
| PROSTATE: | inflammation, chronic (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND SEMINAL VESICLES TESTIS

End of Record- 13650

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13651
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 13651

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13652 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13652

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13653
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Swollen, right.

HISTOMORPHOLOGIC OBSERVATION(S):

chondropathy, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (moderate)

End of Record- 13653

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13654 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13654

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13655
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13655

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13656
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13656

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13661 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (minimal) |

End of Record- 13661

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13662
SEX: M

DOSE GROUP: III
DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 13662

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-3889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13668 | DOSE GROUP: III
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13668

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13670 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvis, moderate dilation. | dilatation, pelvis |

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS: dilatation, pelvis (moderate)

End of Record- 13670

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13671
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13671

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13672 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvis, slight dilation. | dilatation, pelvis |

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS: dilatation, pelvis (minimal)

End of Record- 13672

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13673
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13673

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13674 DOSE GROUP: III
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIS: hypospermia (mild)
exfoliated spermatogenic cells (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND PROSTATE SEMINAL VESICLES TESTIS

End of Record- 13674

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13675 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (mild)

End of Record- 13675

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13676 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13676

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13682 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 13682

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13683 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (moderate) |

End of Record- 13683

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13684
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13684

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13693 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13693

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13695 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13695

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13699
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13699

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13700 DOSE GROUP: IV
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: inflammation, chronic (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS SEMINAL VESICLES TESTIS

End of Record- 13700

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13703
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13703

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13704
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13704

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13706 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EPIDIDYMIDES: Right- small and flaccid. | atrophy, EPIDIDYMIS<br>hypospermia, EPIDIDYMIS<br>infiltration, mononuclear-cell, focal, EPIDIDYMIS |
| TESTES: Right- small and flaccid. | hypoplasia, diffuse, TESTIS<br>dilatation, rete testis, TESTIS |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (minimal) |
| EPIDIDYMIS: | atrophy (mild) |
| | hypospermia (marked) |
| | infiltration, mononuclear-cell, focal (minimal) |
| TESTIS: | hypoplasia, diffuse (marked) |
| | dilatation, rete testis |

End of Record- 13706

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13708
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13708

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13710 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, right. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (moderate)

End of Record- 13710

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13711 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (minimal) |

End of Record- 13711

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13716 | DOSE GROUP: IV
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (minimal) |

End of Record- 13716

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13717 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvis, slight dilation. | dilatation, pelvis<br>hyperplasia, pelvic/papillary epithelium, focal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| KIDNEYS: | dilatation, pelvis (minimal)<br>hyperplasia, pelvic/papillary epithelium, focal (mild) |

End of Record- 13717

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13719
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 13719

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13721 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (minimal) |
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |
| PROSTATE: | inflammation, chronic (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | PITUITARY | SEMINAL VESICLES | TESTIS |

End of Record- 13721

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
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ANIMAL NUMBER: 13722 | DOSE GROUP: V
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (moderate) |
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |
| PROSTATE: | dilatation, glandular, focal (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | PITUITARY | SEMINAL VESICLES | TESTIS |

End of Record- 13722

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13728 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: hypertrophy/vacuolation, zona glomerulosa (moderate)
vacuolation, cortex (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 13728

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13729 DOSE GROUP: V
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvis, slight dilation. | No microscopic change to correlate |

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS: No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | KIDNEYS | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 13729

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
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P Generation

ANIMAL NUMBER: 13731 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (mild) |
| PROSTATE: | inflammation, chronic (mild) |
| | dilatation, glandular, focal (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 13731

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13732
SEX: M

DOSE GROUP: V
DEATH TYPE: Sacrifice-Moribund

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: All lobes pale, tan in color. | necrosis, centrilobular |
| TESTES: Bilateral- red. | atrophy/degeneration, multifocal, TESTIS |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | necrosis, centrilobular (moderate) |
| TESTIS: | atrophy/degeneration, multifocal (marked) |

End of Record- 13732

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13733 | DOSE GROUP: V
SEX: M | DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EPIDIDYMIDES: Left- small and flaccid. | exfoliated spermatogenic cells, EPIDIDYMIS<br>atrophy, EPIDIDYMIS |
| KIDNEYS: Right- pelvis, slight dilation. | dilatation, pelvis |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | exfoliated spermatogenic cells (minimal)<br>atrophy (moderate)<br>hypospermia (marked) |
| KIDNEYS: | dilatation, pelvis (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| COAGULATING GLAND | PROSTATE | SEMINAL VESICLES | TESTIS |
|---|---|---|---|

End of Record- 13733

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13734
SEX: M

DOSE GROUP: V
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)
PROSTATE: inflammation, suppurative, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 13734

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13735 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: atrophy, focal (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 13735

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13736 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (moderate) |
| PROSTATE: | inflammation, chronic (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | SEMINAL VESICLES |
| TESTIS | | | |

End of Record- 13736

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13741
SEX: M

DOSE GROUP: V
DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

EPIDIDYMIDES: Bilateral- soft and flaccid.

TESTES: Bilateral- soft and flaccid.

HISTOMORPHOLOGIC OBSERVATION(S):

hypospermia, EPIDIDYMIS
exfoliated spermatogenic cells, EPIDIDYMIS
atrophy/degeneration, multifocal, TESTIS
dilatation, rete testis, TESTIS

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | hypospermia (marked) |
| TESTIS: | exfoliated spermatogenic cells (moderate)<br>dilatation, rete testis<br>atrophy/degeneration, multifocal (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | |
|---|---|---|
| COAGULATING GLAND | PROSTATE | SEMINAL VESICLES |

End of Record- 13741

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13742 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: hypertrophy/vacuolation, zona glomerulosa (mild)
vacuolation, cortex (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 13742

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13743 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (moderate) |
| PROSTATE: | inflammation, chronic (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 13743

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13744
SEX: M

DOSE GROUP: V
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

End of Record- 13744

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13750 DOSE GROUP: V
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TESTES: Left- large. | No microscopic change to correlate, TESTIS |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| PROSTATE: | atrophy, focal (minimal) |
| TESTIS: | No microscopic change to correlate |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| COAGULATING GLAND | EPIDIDYMIS | SEMINAL VESICLES | TESTIS |
|---|---|---|---|

End of Record- 13750

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13802 | DOSE GROUP: I
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| PITUITARY: | cyst(s), pars intermedia |
| UTERUS: | macrophages, pigmented (moderate) |
| | distention, lumen (mild) |
| VAGINA: | mucification (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |

End of Record- 13802

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13804
SEX: F
DOSE GROUP: I
DEATH TYPE: Sacrifice-Moribund

GROSS OBSERVATION(S):

HEAD: Broken palate.

HISTOMORPHOLOGIC OBSERVATION(S):

fracture, PALATE
hemorrhage, PALATE

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| PALATE: | fracture |
| | hemorrhage (marked) |

End of Record- 13804

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13809 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13809

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13811 DOSE GROUP: I
SEX: F DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| OVARIES: | cyst(s), intraovarian |
| VAGINA: | mucification (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | |
|---|---|---|
| CERVIX | OVIDUCT(S) | UTERUS |

End of Record- 13811

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13812 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS CERVIX OVARIES PITUITARY
VAGINA

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

OVIDUCT(S)

End of Record- 13812

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
P Generation

| | |
|---|---|
| ANIMAL NUMBER: 13814 | DOSE GROUP: I |
| SEX: F | DEATH TYPE: Sacrifice-Scheduled |

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, right. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (moderate)

End of Record- 13814

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13815 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13815

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13816 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | degeneration, cystic, cortex (minimal) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| CERVIX | OVARIES | OVIDUCT(S) | PITUITARY |
| VAGINA | | | |

End of Record- 13816

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13821
SEX: F

DOSE GROUP: I
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (minimal) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| OVARIES: | cyst(s), intraovarian |
| UTERUS: | macrophages, pigmented (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| CERVIX | OVIDUCT(S) | PITUITARY | VAGINA |

End of Record- 13821

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13822 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Moribund

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13822

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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P Generation

ANIMAL NUMBER: 13824 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13824

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Appendix III
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P Generation

ANIMAL NUMBER: 13825 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, both. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EAR(S): | chondropathy, auricular (marked) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13825

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13826 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| OVARIES: | cystic bursa(e) |
| UTERUS: | macrophages, pigmented (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS CERVIX OVIDUCT(S) PITUITARY

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

VAGINA

End of Record- 13826

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13836 DOSE GROUP: II
SEX: F DEATH TYPE: Sacrifice-Moribund

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EXTREMITIES: Swollen limbs, left front leg, left front paw. | fracture |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EXTREMITIES: | fracture |

End of Record- 13836

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13840 DOSE GROUP: II
SEX: F DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

OVARIAN FOLLICLES/CORPORA LUTEA: presence of corpora lutea
presence of growing/antral follicles

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

CERVIX OVARIES OVIDUCT(S) UTERUS
VAGINA

End of Record- 13840

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
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ANIMAL NUMBER: 13851 DOSE GROUP: II
SEX: F DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | distention, lumen (marked) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| CERVIX | OVARIES | OVIDUCT(S) | VAGINA |
|---|---|---|---|

End of Record- 13851

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13856 | DOSE GROUP: II
SEX: F | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, right. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (marked)

End of Record- 13856

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13862 DOSE GROUP: III
SEX: F DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, both. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EAR(S): | chondropathy, auricular (marked) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| CERVIX | OVARIES | OVIDUCT(S) | UTERUS |
| VAGINA | | | |

End of Record- 13862

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13869 DOSE GROUP: III
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EYES: Traumatized cornea. | keratitis, chronic<br>cataract |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EYES: | keratitis, chronic (moderate)<br>cataract |

End of Record- 13869

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13885 DOSE GROUP: III
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Left- pelvis, marked dilation. | Tissue not available |

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

KIDNEYS

End of Record- 13885

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13898 DOSE GROUP: IV
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, right. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (marked)

End of Record- 13898

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13900 DOSE GROUP: IV
SEX: F DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

CERVIX
OVARIAN FOLLICLES/CORPORA LUTEA
OVARIES
OVIDUCT(S)
UTERUS
VAGINA

End of Record- 13900

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13901
SEX: F

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Swollen, right.

HISTOMORPHOLOGIC OBSERVATION(S):

chond opathy, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (moderate)

End of Record- 13901

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
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ANIMAL NUMBER: 13908 DOSE GROUP: IV
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, right. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (mild)

End of Record- 13908

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

ANIMAL NUMBER: 13921 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13921

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13922 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13922

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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P Generation

| | |
|---|---|
| ANIMAL NUMBER: 13927 | DOSE GROUP: V |
| SEX: F | DEATH TYPE: Sacrifice-Scheduled |

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, right. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (marked)

End of Record- 13927

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13928 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (mild)<br>distention, lumen (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | OVARIES | OVIDUCT(S) | PITUITARY |

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

CERVIX
VAGINA

End of Record- 13928

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13929 DOSE GROUP: V
SEX: F DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | absence of corpora lutea<br>presence of growing/antral follicles |
| OVARIES: | cyst(s), intraovarian |
| UTERUS: | distention, lumen (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

CERVIX OVIDUCT(S) VAGINA

End of Record- 13929

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13933 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | degeneration, cystic, cortex (minimal) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | gland(s), endometrial, cystic |
| | macrophages, pigmented (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| CERVIX | OVARIES | OVIDUCT(S) | PITUITARY |
| VAGINA | | | |

End of Record- 13933

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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P Generation

ANIMAL NUMBER: 13934 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13934

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13935 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

OVARIAN FOLLICLES/CORPORA LUTEA: presence of corpora lutea
presence of growing/antral follicles

UTERUS: macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13935

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13936 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| CERVIX: | dilatation (moderate) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (marked) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS OVARIES OVIDUCT(S) PITUITARY
VAGINA

End of Record- 13936

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 13942 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13942

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13943 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13943

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13944 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate)<br>distention, lumen (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 13944

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix III
Individual Animal Gross and Histomorphology Data
P Generation

ANIMAL NUMBER: 13946
SEX: F
DOSE GROUP: V
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (moderate)

End of Record- 13946

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS PROTOCOL 418-020 HISTOPATHOLOGY REPORT

## APPENDIX IV

## INDIVIDUAL ANIMAL GROSS AND HISTOMORPHOLOGY DATA

F1 Generation

KEY TO CORRELATION OF HISTOMORPHOLOGIC OBSERVATIONS

Not applicable = Microscopic evaluation/correlation not appropriate or not required by protocol.

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1003 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIS: infiltration, mononuclear-cell, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 1003

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1012
SEX: M

DOSE GROUP: I
DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PROSTATE SEMINAL VESICLES
TESTIS

End of Record- 1012

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1017 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 1017

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1018 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Moribund

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EYES: Corneal opacity, both eyes. | inflammation, chronic, iris<br>neuropathy, optic nerve(s) |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EYES: | inflammation, chronic, iris (moderate)<br>neuropathy, optic nerve(s) (moderate) |

End of Record- 1018

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1019
SEX: M

DOSE GROUP: I
DEATH TYPE: Sacrifice-Moribund

GROSS OBSERVATION(S):

EYES: Corneal opacity, both eyes.

HISTOMORPHOLOGIC OBSERVATION(S):

inflammation, chronic, iris
neuropathy, optic nerve(s)

HISTOMORPHOLOGIC OBSERVATIONS:

EYES: inflammation, chronic, iris (moderate)
neuropathy, optic nerve(s) (moderate)

End of Record- 1019

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1020 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Moribund

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EYES: Corneal opacity, both eyes. | No microscopic change to correlate |

HISTOMORPHOLOGIC OBSERVATIONS:

EYES: No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

EYES

End of Record- 1020

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1022 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| HEAD: Lesion, left side, 1.0cm in diameter. | dermatitis, ulcerative, SKIN (GROSS LESION) |

HISTOMORPHOLOGIC OBSERVATIONS:

SKIN (GROSS LESION): dermatitis, ulcerative (moderate)

End of Record- 1022

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1024 DOSE GROUP: I
SEX: M DEATH TYPE: Spontaneous Death

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LUNG: Mottled dark red, all lobes. | hemorrhage, multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG: hemorrhage, multifocal (mild)

End of Record- 1024

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1026 | DOSE GROUP: I
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EYES: Right eye enlarged. | atrophy, retinal, focal<br>atrophy, iris/ciliary body |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (minimal) |
| EYES: | atrophy, retinal, focal (mild)<br>atrophy, iris/ciliary body (marked) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 1026

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1034 | DOSE GROUP: I
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

End of Record- 1034

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1035 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

End of Record- 1035

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1040 DOSE GROUP: I
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PROSTATE SEMINAL VESICLES
TESTIS

End of Record- 1040

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1047 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |
| PROSTATE: | inflammation, chronic (mild) |
| | dilatation, glandular, focal (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | PITUITARY | SEMINAL VESICLES |
| TESTIS | | | |

End of Record- 1047

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1048 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

End of Record- 1048

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1051 | DOSE GROUP: I
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (minimal) |
| TESTIS: | atrophy/degeneration, multifocal (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND, EPIDIDYMIS, PITUITARY, PROSTATE, SEMINAL VESICLES

End of Record- 1051

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1052 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 1052

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1054 DOSE GROUP: I
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: inflammation, chronic (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 1054

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1063 | DOSE GROUP: II
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1063

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1066
SEX: M

DOSE GROUP: II
DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PROSTATE SEMINAL VESICLES
TESTIS

End of Record- 1066

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1077 | DOSE GROUP: II
SEX: M | DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: inflammation, chronic (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | SEMINAL VESICLES | TESTIS |

End of Record- 1077

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1078 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 1078

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1082 | DOSE GROUP: II
SEX: M | DEATH TYPE: Scheduled (Reduced Fertility)

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EPIDIDYMIDES: Left- small. | No microscopic change to correlate, EPIDIDYMIS |
| TESTES: Left- small, flaccid. | No microscopic change to correlate, TESTIS |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | No microscopic change to correlate |
| TESTIS: | No microscopic change to correlate |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND, EPIDIDYMIS, PROSTATE, SEMINAL VESICLES, TESTIS

End of Record- 1082

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1096 | DOSE GROUP: II
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1096

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1098 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1098

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1100 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 1100

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1106 | DOSE GROUP: II
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1106

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1107 | DOSE GROUP: II
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 1107

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1116 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1116

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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ANIMAL NUMBER: 1118
SEX: M

DOSE GROUP: II
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1118

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1120 DOSE GROUP: II
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 1120

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1123 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| HEAD: Swollen snout. | fracture with callus formation<br>deviation, nasal septum |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| HEAD: | fracture with callus formation<br>deviation, nasal septum |

End of Record- 1123

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1124
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan areas too numerous to count, ranging from pinpoint to 0.3cm. | hypertrophy, hepatocellular, diffuse<br>necrosis, focal/multifocal<br>hematopoiesis, extramedullary, multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | hypertrophy, hepatocellular, diffuse (moderate)<br>necrosis, focal/multifocal (mild)<br>hematopoiesis, extramedullary, multifocal (minimal) |

End of Record- 1124

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1125 | DOSE GROUP: III
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan areas (4) ranged in size from pinpoint to 0.1cm. | hypertrophy, hepatocellular, diffuse<br>inflammation, chronic, focal/multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | inflammation, chronic, focal/multifocal (mild)<br>hypertrophy, hepatocellular, diffuse (moderate) |

End of Record- 1125

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1126
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| HEAD: Lesion, neck, right side, 2.0 x 0.5cm; lesion, head, top, 0.2cm in diameter; lesion, head, right side, 0.2cm in diameter; lesion, head, left side, 0.2cm in diameter. | dermatitis, chronic, SKIN (GROSS LESION)<br>dermatitis, ulcerative, SKIN (GROSS LESION) |
| LIVER: Left lateral lobe- tan areas ranging from a pinpoint to 0.2cm in size, too numerous to count. | hypertrophy, hepatocellular, diffuse<br>inflammation, chronic, focal/multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | inflammation, chronic, focal/multifocal (minimal)<br>hypertrophy, hepatocellular, diffuse (mild) |
| SKIN (GROSS LESION): | dermatitis, chronic (moderate)<br>dermatitis, ulcerative (moderate) |

End of Record- 1126

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1128 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan area, 0.4 x 0.2cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1128

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1129 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1129

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1134 | DOSE GROUP: III
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1134

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1136
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| HEAD: Swollen snout. | fracture with callus formation<br>necrosis, tooth<br>rhinitis, suppurative |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| HEAD: | fracture with callus formation<br>necrosis, tooth<br>rhinitis, suppurative (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1136

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1142 DOSE GROUP: III
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: inflammation, chronic (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS SEMINAL VESICLES TESTIS

End of Record- 1142

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1149
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1149

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1154 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1154

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1156
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- 6 tan areas, pinpoint to 0.3cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (mild)

End of Record- 1156

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1159 | DOSE GROUP: III
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1159

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1164 | DOSE GROUP: III
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1164

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1165
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan areas too numerous to count, ranging in size from pinpoint to 0.2cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1165

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1167 | DOSE GROUP: III
SEX: M | DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PROSTATE SEMINAL VESICLES
TESTIS

End of Record- 1167

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1175
SEX: M

DOSE GROUP: III
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1175

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1177 DOSE GROUP: III
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 1177

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1180 | DOSE GROUP: III
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1180

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1182 | DOSE GROUP: IV
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1182

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1189 | DOSE GROUP: IV
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1189

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1190
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe, median lobe- tan areas ranging from a pinpoint to 0.2cm in size, too numerous to count. | hypertrophy, hepatocellular, diffuse<br>inflammation, chronic, focal/multifocal<br>necrosis, single-cell |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | inflammation, chronic, focal/multifocal (minimal)<br>necrosis, single-cell (minimal)<br>hypertrophy, hepatocellular, diffuse (moderate) |

End of Record- 1190

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1191 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Lateral lobe- tan areas too numerous to count ranging in size from pinpoint to 0.1cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1191

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1192 DOSE GROUP: IV
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE: atrophy, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS COAGULATING GLAND EPIDIDYMIS SEMINAL VESICLES
TESTIS

End of Record- 1192

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1193 | DOSE GROUP: IV
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- four tan areas, pinpoint to 0.2cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1193

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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F1 Generation

ANIMAL NUMBER: 1194 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1194

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1197 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TAIL: Tip missing 5.0cm from base. | hyperplasia/hyperkeratosis<br>abscess |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| TAIL: | hyperplasia/hyperkeratosis (moderate)<br>abscess |

End of Record- 1197

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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ANIMAL NUMBER: 1198
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1198

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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F1 Generation

ANIMAL NUMBER: 1200
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Moribund

GROSS OBSERVATION(S):

GASTROINTESTINAL TRACT: Intestines- distended with gas; stomach, cardiac region- ulcerations one region too numerous to count, range in size from pinpoint to 0.1cm in diameter, second region five ulcerations pinpoint size in diameter.

THYMUS: Small.

HISTOMORPHOLOGIC OBSERVATION(S):

ulcer(s), glandular area, STOMACH
erosion(s), glandular mucosa, STOMACH
peritonitis, focal, STOMACH
Advanced autolysis precludes evaluation, ILEUM
distention, COLON
distention, CECUM
edema/inflammation, submucosa, CECUM
atrophy

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| CECUM: | distention (marked) |
| | edema/inflammation, submucosa (mild) |
| COLON: | distention (marked) |
| ILEUM: | Advanced autolysis precludes evaluation |
| STOMACH: | ulcer(s), glandular area (moderate) |
| | erosion(s), glandular mucosa (minimal) |
| | peritonitis, focal (minimal) |
| THYMUS: | atrophy (marked) |

AUTOLYSIS PRECLUDES EVALUATION:

ILEUM

End of Record- 1200

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1205 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan areas ranging in size from pinpoint to 0.5cm, too numerous to count. | hypertrophy, hepatocellular, diffuse<br>necrosis, focal/multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | necrosis, focal/multifocal (mild)<br>hypertrophy, hepatocellular, diffuse (moderate) |

End of Record- 1205

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1206 | DOSE GROUP: IV
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan ares, too numerous to count, ranging in size from pinpoint to 0.5 x 0.1cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (mild)

End of Record- 1206

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1207 DOSE GROUP: IV
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PROSTATE SEMINAL VESICLES
TESTIS

End of Record- 1207

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1211 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1211

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) -
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ANIMAL NUMBER: 1212 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1212

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1217 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | vacuolation, cortex (minimal) |

End of Record- 1217

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1218
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- one tan and black area, 0.2 x 0.2cm; caudate lobe- one tan area, 0.4cm. | hypertrophy, hepatocellular, diffuse<br>necrosis, focal/multifocal<br>hematopoiesis, extramedullary, multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | necrosis, focal/multifocal (minimal)<br>hematopoiesis, extramedullary, multifocal (minimal)<br>hypertrophy, hepatocellular, diffuse (mild) |

End of Record- 1218

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1223 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan area, too numerous to count, ranging in size from pinpoint to 0.2cm in diameter. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (mild)

End of Record- 1223

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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| | |
|---|---|
| ANIMAL NUMBER: 1224 | DOSE GROUP: IV |
| SEX: M | DEATH TYPE: Sacrifice-Scheduled |

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvic dilation, slight. | dilatation, pelvis |

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS: dilatation, pelvis (moderate)

End of Record- 1224

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
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ANIMAL NUMBER: 1225 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: vacuolation, cortex (minimal)

End of Record- 1225

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1229 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, both. | chondropathy, auricular |
| SPLEEN: Tan area, 2.0 x 1.5cm, extends into the parenchyma. | necrosis |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EAR(S): | chondropathy, auricular (marked) |
| SPLEEN: | necrosis (marked) |

End of Record- 1229

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1232 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvic dilation, slight. | dilatation, pelvis |

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS: dilatation, pelvis (mild)

End of Record- 1232

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1234 | DOSE GROUP: IV
SEX: M | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Tan areas, median lobe one tan area 0.2cm, left lateral lobe too numerous to count, ranging from pinpoint to 0.7cm. | hypertrophy, hepatocellular, diffuse<br>necrosis, focal/multifocal<br>inflammation, chronic, focal/multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | necrosis, focal/multifocal (mild)<br>inflammation, chronic, focal/multifocal (mild)<br>hypertrophy, hepatocellular, diffuse (moderate) |

End of Record- 1234

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1235
SEX: M

DOSE GROUP: IV
DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Tan areas, median lobe too numerous to count ranging in size from pinpoint to 0.3cm, left lateral lobe 4-5 tam areas ranging from pinpoint to 0.1cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1235

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1236 | DOSE GROUP: IV
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS

End of Record- 1236

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1240 DOSE GROUP: IV
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvic dilation, slight. | dilatation, pelvis<br>mineralization, pelvis<br>hyperplasia, pelvic/papillary urothelium |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| KIDNEYS: | dilatation, pelvis (mild)<br>mineralization, pelvis (minimal)<br>hyperplasia, pelvic/papillary urothelium (minimal) |

End of Record- 1240

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1241 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 1241

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1243 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| HEAD: Lesion, 0.2cm in diameter. | dermatitis, chronic |

HISTOMORPHOLOGIC OBSERVATIONS:

HEAD: dermatitis, chronic (moderate)

End of Record- 1243

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1244 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (minimal)<br>vacuolation, cortex (minimal) |
| PITUITARY: | cyst(s), pars distalis |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PROSTATE | SEMINAL VESICLES |
| TESTIS | | | |

End of Record- 1244

ORAL (GA/AGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1250 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TAIL: Annular constriction. | No microscopic change to correlate |

HISTOMORPHOLOGIC OBSERVATIONS:

TAIL: No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

TAIL

End of Record- 1250

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1251 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe and median lobe- tan areas, too numerous to count, ranging in size from pinpoint to 0.3cm in diameter. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1251

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1254 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: hypertrophy/vacuolation, zona glomerulosa (mild)
PROSTATE: inflammation, chronic (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 1254

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1256 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan area, 0.8cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (mild)

End of Record- 1256

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1262 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Tan areas, median lobe five tan areas pinpoint to 0.3cm; left lateral lobe tan six tan areas pinpoint to 0.1cm. | hypertrophy, hepatocellular, diffuse |
| TAIL: Annular constrictions of tail. | constriction, focal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | hypertrophy, hepatocellular, diffuse (moderate) |
| TAIL: | constriction, focal |

End of Record- 1262

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1263 DOSE GROUP: V
SEX: M DEATH TYPE: Spontaneous Death

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EYES: Corneal opacity, both eyes. | No microscopic change to correlate |

HISTOMORPHOLOGIC OBSERVATIONS:

EYES: No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

EYES

End of Record- 1263

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1264 DOSE GROUP: V
SEX: M DEATH TYPE: Spontaneous Death

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EYES: Corneal opacity, both eyes. | No microscopic change to correlate |

HISTOMORPHOLOGIC OBSERVATIONS:

EYES: No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

EYES

End of Record- 1264

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1266 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (mild) |
| PITUITARY: | cyst(s), pars intermedia |
| PROSTATE: | inflammation, suppurative (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | SEMINAL VESICLES | TESTIS |

End of Record- 1266

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1268 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Tan area, median lobe too numerous to count ranging in size from pinpoint to 0.4 x 0.2cm. | hypertrophy, hepatocellular, diffuse<br>necrosis, focal/multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | necrosis, focal/multifocal (mild)<br>hypertrophy, hepatocellular, diffuse (marked) |

End of Record- 1268

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1269 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | COAGULATING GLAND | EPIDIDYMIS | PITUITARY |
| PROSTATE | SEMINAL VESICLES | TESTIS | |

End of Record- 1269

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1270 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TAIL: Annular constriction. | No microscopic change to correlate |

HISTOMORPHOLOGIC OBSERVATIONS:

TAIL: No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

TAIL

End of Record- 1270

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1271 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |
| PROSTATE: | atrophy, focal (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS COAGULATING GLAND PITUITARY SEMINAL VESICLES
TESTIS

End of Record- 1271

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1273 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (minimal)<br>vacuolation, cortex (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND EPIDIDYMIS PROSTATE SEMINAL VESICLES
TESTIS

COMMENTS:

| | |
|---|---|
| PITUITARY | The pituitary was damaged at necropsy and the section that could be obtained was not adequate for evaluation. |

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PITUITARY

End of Record- 1273

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1275 | DOSE GROUP: V
SEX: M | DEATH TYPE: Sacrifice-Moribund

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Median lobe- tan areas too numerous to count ranging in size from pinpoint to 0.1cm. | hypertrophy, hepatocellular, diffuse<br>necrosis, focal/multifocal |
| SPLEEN: Small. | atrophy |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | necrosis, focal/multifocal (mild)<br>hypertrophy, hepatocellular, diffuse (mild) |
| SPLEEN: | atrophy (marked) |

End of Record- 1275

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1276 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Large. | hypertrophy, hepatocellular, diffuse<br>inflammation, chronic, focal/multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | inflammation, chronic, focal/multifocal (minimal)<br>hypertrophy, hepatocellular, diffuse (moderate) |

End of Record- 1276

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1278 DOSE GROUP: V
SEX: M DEATH TYPE: Scheduled (Reduced Fertility)

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIS: infiltration, mononuclear-cell, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | PROSTATE | SEMINAL VESICLES | TESTIS |

End of Record- 1278

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1279 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- tan areas too numerous to count. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1279

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1283 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral and median lobes- tan areas too numerous to count ranging in size from pinpoint to 0.3 x 0.1cm. | hypertrophy, hepatocellular, diffuse<br>hematopoiesis, extramedullary, multifocal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| LIVER: | hematopoiesis, extramedullary, multifocal (minimal)<br>hypertrophy, hepatocellular, diffuse (mild) |

End of Record- 1283

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1287 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hypertrophy/vacuolation, zona glomerulosa (minimal) |
| EPIDIDYMIS: | infiltration, mononuclear-cell, focal (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

COAGULATING GLAND PITUITARY PROSTATE SEMINAL VESICLES
TESTIS

End of Record- 1287

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1288 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS: hypertrophy/vacuolation, zona glomerulosa (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| COAGULATING GLAND | EPIDIDYMIS | PITUITARY | PROSTATE |
| SEMINAL VESICLES | TESTIS | | |

End of Record- 1288

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1293 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe too numerous to count tan areas ranging in size from pinpoint to 0.5cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1293

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1295 DOSE GROUP: V
SEX: M DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe four tan and white areas ranging in size from pinpoint to 0.3cm. | hypertrophy, hepatocellular, diffuse |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: hypertrophy, hepatocellular, diffuse (moderate)

End of Record- 1295

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1312 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

OVARIAN FOLLICLES/CORPORA LUTEA: presence of corpora lutea
presence of growing/antral follicles

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | UTERUS | VAGINA | |

End of Record- 1312

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1321 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1321

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1328
SEX: F

DOSE GROUP: I
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |
| VAGINA: | mucification (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | | | |

End of Record- 1328

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1335 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Swollen, both.

HISTOMORPHOLOGIC OBSERVATION(S):

chondropathy, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EAR(S): | chondropathy, auricular (marked) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1335

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1340
SEX: F

DOSE GROUP: I
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate)<br>distention, lumen (minimal) |
| VAGINA: | mucification (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS CERVIX OVARIES OVIDUCT(S)
PITUITARY

End of Record- 1340

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1341 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EAR(S): Swollen, both. | chondropathy, auricular |

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondropathy, auricular (moderate)

End of Record- 1341

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1342 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Swollen, both.

HISTOMORPHOLOGIC OBSERVATION(S):

chondropathy, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EAR(S): | chondropathy, auricular (marked) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | distention, lumen (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1342

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1345
SEX: F

DOSE GROUP: I
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| VAGINA: | inflammation, chronic, focal (minimal)<br>mucification (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | UTERUS | | |

End of Record- 1345

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1353 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (marked) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1353

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1355 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (marked) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1355

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1359 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (mild) |
| VAGINA: | mucification (minimal) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | | | |

End of Record- 1359

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 19780 DOSE GROUP: I
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| SPLEEN: Small. | atrophy |

HISTOMORPHOLOGIC OBSERVATIONS:

SPLEEN: atrophy (marked)

End of Record- 19780

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1365 DOSE GROUP: II
SEX: F DEATH TYPE: Spontaneous Death

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TAIL: Tip missing. | necrosis, focal |

HISTOMORPHOLOGIC OBSERVATIONS:

TAIL: necrosis, focal (mild)

End of Record- 1365

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1373
SEX: F

DOSE GROUP: II
DEATH TYPE: Spontaneous Death

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GASTROINTESTINAL TRACT: Stomach and intestines- distention. | erosion(s), glandular mucosa, STOMACH<br>distention, ILEUM |
| LUNG: Dorsal surface, right apical lobe, depressed white area, 0.3cm in diameter. | necrosis, focal<br>macrophages, alveoli, focal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ILEUM: | distention (marked) |
| LUNG: | necrosis, focal (mild) |
| | macrophages, alveoli, focal (mild) |
| STOMACH: | erosion(s), glandular mucosa (mild) |

End of Record- 1373

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1374 DOSE GROUP: II
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TAIL: Annular constrictions of the tail. | No microscopic change to correlate |

HISTOMORPHOLOGIC OBSERVATIONS:

TAIL: No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

TAIL

End of Record- 1374

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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ANIMAL NUMBER: 1407 | DOSE GROUP: II
SEX: F | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TAIL: Tip missing. | inflammation, chronic |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| TAIL: | inflammation, chronic (minimal) |

End of Record- 1407

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1415 DOSE GROUP: II
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| LIVER: Left lateral lobe- mass adhered to left lateral lobe, 2.0 x 1.2 x 0.4cm, firm. | infarct, liver lobe |

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER: infarct, liver lobe

End of Record- 1415

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

| | |
|---|---|
| ANIMAL NUMBER: 1428 | DOSE GROUP: III |
| SEX: F | DEATH TYPE: Sacrifice-Scheduled |

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Pelvic dilation, slight, bilateral. | dilatation, pelvis |

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS: dilatation, pelvis (mild)

End of Record- 1428

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1495 DOSE GROUP: IV
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| EYES: Soft tissue surrounding eye swollen. | abscess, periocular |

HISTOMORPHOLOGIC OBSERVATIONS:

EYES: abscess, periocular

End of Record- 1495

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1544 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| GENERAL: No gross changes. | Not applicable |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| ADRENAL GLANDS: | hyperplasia, cortical, focal (minimal) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| PITUITARY: | cyst(s), pars distalis |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| CERVIX | OVARIES | OVIDUCT(S) | VAGINA |
|---|---|---|---|

End of Record- 1544

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1546 | DOSE GROUP: V
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (marked) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1546

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
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F1 Generation

ANIMAL NUMBER: 1548 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Swollen, right.

HISTOMORPHOLOGIC OBSERVATION(S):

chondropathy, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| EAR(S): | chondropathy, auricular (marked) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |
| | distention, lumen (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1548

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1551 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| TAIL: Tip missing 11 cm from the base. | inflammation, chronic<br>necrosis, focal |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| TAIL: | inflammation, chronic (mild)<br>necrosis, focal (mild) |

End of Record- 1551

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1552 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate)<br>distention, lumen (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1552

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1557 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (mild) |
| VAGINA: | mucification (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS CERVIX OVARIES OVIDUCT(S)
PITUITARY

End of Record- 1557

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1573 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1573

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1579 | DOSE GROUP: V
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (minimal) |
| VAGINA: | mucification (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS CERVIX OVARIES OVIDUCT(S)
PITUITARY

End of Record- 1579

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1589 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |
| VAGINA: | mucification (mild) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | | | |

End of Record- 1589

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1593 | DOSE GROUP: V
SEX: F | DEATH TYPE: Sacrifice-Scheduled

| GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S): |
|---|---|
| KIDNEYS: Right- pelvis moderate dilation. | dilatation, pelvis<br>pyelonephritis |
| URETER: Calculi, 1.0 x 0.5xm, one located at the caudal end of each ureter. | distention<br>hyperplasia, mucosa<br>inflammation, chronic |
| URINARY BLADDER: Walls thickened. | cystitis, hyperplastic |

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| KIDNEYS: | dilatation, pelvis (moderate)<br>pyelonephritis (moderate) |
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea<br>presence of growing/antral follicles |
| OVARIES: | cyst(s), intraovarian |
| URETER: | distention (marked)<br>hyperplasia, mucosa (moderate)<br>inflammation, chronic (mild) |
| URINARY BLADDER: | cystitis, hyperplastic (marked) |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS CERVIX OVIDUCT(S) PITUITARY
VAGINA

End of Record- 1593

ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS
PROTOCOL 418-020
SPONSOR'S STUDY NUMBER: T-6889.6

Appendix IV
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 1598 DOSE GROUP: V
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

| | |
|---|---|
| OVARIAN FOLLICLES/CORPORA LUTEA: | presence of corpora lutea |
| | presence of growing/antral follicles |
| UTERUS: | macrophages, pigmented (moderate) |

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

| | | | |
|---|---|---|---|
| ADRENAL GLANDS | CERVIX | OVARIES | OVIDUCT(S) |
| PITUITARY | VAGINA | | |

End of Record- 1598

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (AFPO) IN RATS PROTOCOL 418-020 SPONSOR'S STUDY NUMBER: T-6889.6 HISTOPATHOLOGY REPORT

## APPENDIX V

### INDIVIDUAL ANIMAL GROSS AND HISTOMORPHOLOGY DATA

### GROSS LESIONS - F1 and F2 Pups

# ORAL (GAVAGE) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERFLUOROOCTANOATE (APFO) IN RATS
# PROTOCOL 418-020
# SPONSOR'S STUDY NUMBER: T-6889.6

## APPENDIX V

### Individual Animal Gross and Histomorphology Data
### Gross Lesions - F1 and F2 Pups

| Dam #, Group #, Pup # | Gross Observation(s) | Histomorphologic Observations |
|---|---|---|
| 13921, Group V, Pup #1 | Mouth- mass #3, 0.2 x 0.3 x 0.1cm | Tissue not available |
| 13946, Group I, Pup #10 | Kidney- right, pelvis, dilated, moderate | Tissue not available |
| 1304, Group I, Pup #1 | Kidney- pelvis, dilated, slight | Dilatation, pelvis, moderate |
| 1383, Group II, Pup #6 | Kidney- right, dilation, pelvis, moderate | Dilatation, pelvis, moderate |
| 1459, Group III, Pup #14 | Kidney- bilateral, dilation, pelvis, moderate | Dilatation, pelvis, mild |
| 1476, Group III, Pup #3 | Kidney- right, pelvis, dilated, slight | Dilatation, pelvis, mild |
| 1523, Group IV, Pup #11 | Tail- bent | Tissue not available |
| 1523, Group IV, Pup #3 | Domed head; brain- dilated third and lateral ventricles, marked | Dilatation, ventricular, marked |
| | Eye- right not present | Confirmed microscopically |

# APPENDIX L

# HISTORICAL CONTROL DATA

# FEMALE FERTILITY
## HISTORICAL CONTROL DATA
## Crl:CD®BR VAF/Plus® [Crl:CD®(SD)IGS BR VAF/Plus®] RATS

**SUMMARY**

**1995-2002**

**1891 TOTAL LITTERS**

| | | AVERAGE | MINIMUM | MAXIMUM | # STUDIES INCL. IN ANALYSIS |
|---|---|---|---|---|---|
| DELIVERED LITTERS | N | | 4 | 33 | 93 |
| IMPLANTATION SITES PER DELIVERED LITTER | N | | 63 | 519 | 93 |
| | MEAN | 15.3 | 13.4 | 17.7 | 93 |
| PUPS FOUND DEAD OR PRESUMED CANNIBALIZED | | | | | |
| DAY 1 | N | | | | |
| | N | | | | |
| | % | 0.4% | 0.0% | 2.7% | 72 |
| DAYS 1-4 | N | | | | |
| | N | | | | |
| | % | 2.2% | 0.0% | 9.0% | 88 |
| DAYS 15-21 | N | | | | |
| | N | | | | |
| | % | 0.3% | 0.0% | 3.8% | 68 |
| VIABILITY INDEX (Day 4) | % | 97.8% | 91.0% | 100.0% | 84 |
| | N | | | | |
| | N | | | | |
| VIABILITY INDEX (Day 7) | % | 1.0 | 91.5% | 100.0% | 10 |
| | N | | | | |
| | N | | | | |
| LACTATION INDEX | % | 98.8% | 94.4% | 100.0% | 77 |
| | N | | | | |
| | N | | | | |
| SURVIVING PUPS/LITTER | | | | | |
| Day 1 | MEAN | 14.2 | 12.0 | 16.1 | 92 |

FEMALE FERTILITY
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® [Crl:CD®(SD)IGS BR VAF/Plus®] RATS

**SUMMARY**

**1995-2002**

**1891 TOTAL LITTERS**

| | | AVERAGE | MINIMUM | MAXIMUM | # STUDIES INCL. IN ANALYSIS |
|---|---|---|---|---|---|
| DELIVERED LITTERS | N | | 4 | 33 | 93 |
| Day 4 (Preculling) | MEAN | 13.9 | 11.4 | 15.8 | 89 |
| Day 4 (Postculling) | MEAN | 8.7 | 7.6 | 10.0 | 27 |
| Day 21 | MEAN | 11.8 | 6.0 | 15.5 | 67 |
| PUP WEIGHT/LITTER (GRAMS) | | | | | |
| Day 7 | MEAN | 13.0 | 10.6 | 17.6 | 62 |
| Day 14 | MEAN | 26.0 | 21.2 | 34.8 | 48 |
| Day 21 | MEAN | 40.9 | 31.1 | 60.4 | 67 |

DURATION OF GESTATION
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® [Crl:CD®(SD)IGS BR VAF/Plus®] RATS

**1997-2002**

**SUMMARY**

**1428 TOTAL LITTERS**

| | | AVERAGE | MINIMUM | MAXIMUM | # STUDIES INCL. IN ANALYSIS |
|---|---|---|---|---|---|
| DELIVERED LITTERS | N | | 8 | 33 | 59 |
| DURATION OF GESTATION IN DAYS | MEAN | 22.6 | 21.7 | 23.2 | 59 |

SEXUAL MATURATION
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® (Crl:CD®(SD)IGS BR VAF/Plus®) RATS

CODE: **1995 - 2000**
DRAFT FINAL REPORT MAIL DATE:
TYPE OF STUDY: **SUMMARY**

**42 STUDIES INCLUDED IN ANALYSIS**

| **SEXUAL MATURATION** | | **AVERAGE** | **MINIMUM** | **MAXIMUM** |
|---|---|---|---|---|
| MALE RATS | N | | | |
| Preputial Separation | | | | |
| (Avg. day postpartum obs.) | MEAN | **46.1** | **43.9** | **47.7** |
| FEMALE RATS | N | | | |
| Vagina Patent | | | | |
| (Avg. day postpartum obs.) | MEAN | **32.1** | **30.1** | **34.0** |

SEXUAL MATURATION
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® (Crl:CD®(SD)IGS BR VAF/Plus®) RATS

| CODE: | | 142 | 148 | 151 | 187 | 188 | 192 | 199 |
|---|---|---|---|---|---|---|---|---|
| DRAFT FINAL REPORT MAIL DATE: | | 03/21/95 | 06/13/95 | 07/20/95 | 07/23/96 | 08/05/96 | 08/30/96 | 10/09/96 |
| TYPE OF STUDY: | | Seg. III | Harmonized Seg. II/III | Harmonized Seg. II/III | Seg. II/III | Repro. and Postnatal | Seg. II/III | Seg. II/III |
| **SEXUAL MATURATION** | | | | | | | | |
| MALE RATS | N | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Preputial Separation (Avg. day postpartum obs.) | MEAN | 46.7 | 46.7 | 44.7 | 46.1 | 45.9 | 44.5 | 47.6 |
| FEMALE RATS | N | 24 | 25 | 25 | 25 | 25 | 25 | 25 |
| Vagina Patent (Avg. day postpartum obs.) | MEAN | 32.4 | 32.1 | 31.9 | 32.2 | 31.6 | 31.8 | 31.4 |

SEXUAL MATURATION
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® (Crl:CD®(SD)IGS BR VAF/Plus®) RATS

| CODE: | | 208 | 222 | 228 | 234 |
|---|---|---|---|---|---|
| DRAFT FINAL REPORT MAIL DATE: | | 10/25/96 | 01/14/97 | 01/23/97 | 03/05/97 |
| TYPE OF STUDY: | | Embryo-Fetal Dev. | Seg. II/III | Pre and Postnatal Dev. | Seg. II/III |
| **SEXUAL MATURATION** | | | | | |
| MALE RATS | N | 66 | 25 | 24 | 25 |
| Preputial Separation | | | | | |
| (Avg. day postpartum obs.) | MEAN | 45.3 | 45.9 | 45.8 | 46.2 |
| FEMALE RATS | N | 80 | 25 | 25 | 24 |
| Vagina Patent | | | | | |
| (Avg. day postpartum obs.) | MEAN | 32.9 | 31.7 | 31.7 | 31.8 |

SEXUAL MATURATION
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® (Crl:CD®(SD)IGS BR VAF/Plus®) RATS

| CODE: | | 242 | 251 | 255 | 258 | 266 | 282 | 290 |
|---|---|---|---|---|---|---|---|---|
| DRAFT FINAL REPORT MAIL DATE: | | 04/09/97 | 06/02/97 | 06/11/97 | 07/18/97 | 09/30/97 | 02/03/98 | 03/10/98 |
| TYPE OF STUDY: | | Seg. II/III | Pre and Post Natal | Seg. II/III | Seg. II/III | Seg. II/III | Pre and Post Natal | Dev. Neurotox. |
| **SEXUAL MATURATION** | | | | | | | | |
| MALE RATS | N | 25 | 136 | 25 | 25 | 25 | 24 | 20 |
| Preputial Separation (Avg. day postpartum obs.) | MEAN | 46.6 | 45.3 | 45.7 | 43.9 | 46.8 | 45.7 | 44.2 |
| FEMALE RATS | N | 25 | 34 | 25 | 25 | 25 | 24 | 20 |
| Vagina Patent (Avg. day postpartum obs.) | MEAN | 32.0 | 33.7 | 30.1 | 30.3 | 32.0 | 32.6 | 32.4 |

SEXUAL MATURATION
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® (Crl:CD®(SD)IGS BR VAF/Plus®) RATS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CODE: | | 294 | 305 | 310 | 345 | 353 | 359 |
| DRAFT FINAL REPORT MAIL DATE: | | 04/30/98 | 06/23/98 | 08/03/98 | 01/28/99 | 03/05/99 | 04/21/99 |
| TYPE OF STUDY: | | Neurobehav. Dev. | Comb. Pil.+ Full Dev. + Peri/Post Repro. | Oral (Gavage) 6-wk. toxicity and toxicokin. | Dev. Neurotox. | Multi-Gen. | Dev. Neurotox. |
| **SEXUAL MATURATION** | | | | | | | |
| MALE RATS | N | 60 | 25 | 14 | 60 | 30 | 57 |
| Preputial Separation | | | | | | | |
| (Avg. day postpartum obs.) | MEAN | 45.2 | 46.7 | 45.1 | 45.4 | 46.1 | 47.2 |
| FEMALE RATS | N | 60 | 25 | 15 | 60 | 30 | 51 |
| Vagina Patent | | | | | | | |
| (Avg. day postpartum obs.) | MEAN | 31.6 | 32.1 | 32.2 | 31.6 | 32.5 | 32.0 |

FEMALE FERTILITY
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® [Crl:CD®(SD)IGS BR VAF/Plus®] RATS

**1992 - 2002**

**SUMMARY**

**3343 TOTAL RATS**

| | | AVERAGE | MINIMUM | MAXIMUM | # STUDIES INCLUDED |
|---|---|---|---|---|---|
| **ESTROUS CYCLING OBSERVATIONS** | | | | | |
| RATS EVALUATED | N | | 8 | 48 | 131 |
| **PREDOSAGE ESTROUS CYCLING** | | | | | |
| ESTROUS STAGES/7 DAYS | MEAN | 2.0 | 2.0 | 2.0 | 2 |
| ESTROUS STAGES/14 DAYS | MEAN | 3.4 | 2.4 | 3.9 | 79 |
| ESTROUS STAGES/15 DAYS | MEAN | 3.6 | 3.6 | 3.6 | 1 |
| ESTROUS STAGES/16 DAYS | MEAN | 3.9 | 3.9 | 3.9 | 1 |
| MEAN NUMBER OF COMPLETE ESTROUS CYCLES/GROUP | MEAN | 3.7 | 3.5 | 3.8 | 3 |
| RATS WITH 6 OR MORE CONSEC. DAYS OF DIESTRUS | N | | 0 | 2 | 85 |
| RATS WITH 6 OR MORE CONSEC. DAYS OF ESTRUS | N | | 0 | 0 | 85 |
| MEAN ESTROUS CYCLE LENGTH/GROUP | MEAN | 4.1 | 4.1 | 4.1 | 3 |
| **PRECOHABITATION ESTROUS CYCLING** | | | | | |
| MEAN NUMBER OF COMPLETE ESTROUS CYCLES/GROUP | MEAN | 3.2 | 3.2 | 3.2 | 4 |
| ESTROUS STAGES/14 DAYS | MEAN | 3.4 | 2.5 | 7.0 | 117 |
| ESTROUS STAGES/20 DAYS | MEAN | | | | |
| ESTROUS STAGES/21 DAYS | MEAN | 5.0 | 4.8 | 5.2 | 7 |
| ESTROUS STAGES/28 DAYS | MEAN | 6.5 | 6.5 | 6.5 | 1 |
| RATS WITH 6 OR MORE CONSEC. DAYS OF DIESTRUS | N | | 0 | 7 | 126 |
| RATS WITH 6 OR MORE CONSEC. DAYS OF ESTRUS | N | | 0 | 3 | 126 |
| MEAN ESTROUS CYCLE LENGTH/GROUP | MEAN | 4.1 | 4.0 | 4.2 | 3 |

FEMALE FERTILITY
HISTORICAL CONTROL DATA
Crl:CD®BR VAF/Plus® [Crl:CD®(SD)IGS BR VAF/Plus®] RATS

**1992 - 2002**

**SUMMARY**

**3343 TOTAL RATS**

| | | AVERAGE | MINIMUM | MAXIMUM | # STUDIES INCLUDED |
|---|---|---|---|---|---|
| **RECOVERY PER. ESTROUS CYCLING** | | | | | |
| ESTROUS STAGES/28 DAYS | MEAN | 5.0 | 5.0 | 5.0 | 1 |
| RATS WITH 6 OR MORE CONSEC. DAYS OF DIESTRUS | N | | 0 | 0 | 1 |
| RATS WITH 6 OR MORE CONSEC. DAYS OF ESTRUS | N | | 0 | 0 | 1 |

# FEMALE FERTILITY
## HISTORICAL CONTROL DATA
## Crl:CD®BR VAF/Plus® [Crl:CD®(SD)IGS BR VAF/Plus®] RATS

**1992 - 2002**

**SUMMARY**

**3343 TOTAL RATS**

| | | AVERAGE | MINIMUM | MAXIMUM | # STUDIES INCLUDED |
|---|---|---|---|---|---|
| RATS IN COHABITATION | N | | 7 | 40 | 117 |
| DAYS IN COHABITATION | MEAN | 2.8 | 1.6 | 5.2 | 116 |
| RATS THAT MATED | N | | | | |
| | % | 99.3% | 87.5% | 100.0% | 111 |
| RATS WITH CONFIRMED MATING DATES | N | | 7 | 39 | 115 |
| RATS MATING | | | | | |
| DAYS 1-4 | N | | | | |
| | % | 96.0% | 96.0% | 96.0% | 1 |
| DAYS 5-7 | N | | | | |
| | % | 4.0% | 4.0% | 4.0% | 1 |
| RATS MATED BY FIRST MALE | | | | | |
| DAYS 1-7 | N | | | | |
| | % | 97.0% | 84.0% | 100.0% | 113 |
| DAYS 8-14 | N | | | | |
| | % | 2.1% | 0.0% | 16.0% | 97 |
| DAYS 15-21 | N | | | | |
| | % | 2.0% | 0.0% | 4.0% | 2 |
| RATS MATED BY SECOND MALE | | | | | |
| DAYS 8-14 | N | | | | |
| | % | 2.6% | 0.0% | 12.5% | 13 |
| DAYS 15-21 | N | | | | |
| | % | 2.0% | 0.0% | 8.0% | 54 |
| FERTILITY INDEX | N | | | | |
| | N | | | | |
| | % | 93.8% | 64.0% | 100.0% | 111 |
| COPULATION INDEX | N | | | | |
| | N | | | | |
| | % | 98.5% | 93.3% | 100.0% | 7 |
| PREGNANCY RATE | N | | | | |
| | N | | | | |
| | % | 96.7% | 92.0% | 100.0% | 4 |
| RATS PREGNANT/RATS IN COHABITATION | N | | | | |
| | N | | | | |
| | % | 93.1% | 64.0% | 100.0% | 107 |

# APPENDIX M

# QUALITY ASSURANCE STATEMENT

905 Sheehy Drive, Bldg. A
Horsham, PA 19044
Telephone: (215) 443-8710
Telefax: (215) 443-8587

ARGUS RESEARCH
Charles River Laboratories
Discovery and Development Services

## QUALITY ASSURANCE STATEMENT

Argus Protocol: 418-020

Sponsor's Study Number: T-6889.6

Study Director: Raymond G. York, Ph.D., DABT

The protocol, critical phases, raw data and final report were inspected by the Quality Assurance Unit (QAU), to assure conformance with:

U.S. Environmental Protection Agency. Federal Insecticide, Fungicide and Rodenticide Act/Toxic Substances Control Act (FIFRA/TSCA); Good Laboratory Practice Standards; Final Rule. 40 CFR Part 160/Part 792.

Organisation for Economic Co-operation and Development (1998). The Revised OECD Principles of Good Laboratory Practices [C(97)186/Final].

The undersigned indicate that the interim report is an accurate representation of the raw data. Data provided by the Sponsor or a subcontractor were not audited by the Argus Research Quality Assurance Unit.

The QAU inspection and report audit dates are listed below:

| Inspection Phase | Inspection Date(s) | Date(s) Findings Submitted to Study Director | Date(s) Findings Submitted to Management |
|---|---|---|---|
| Protocol | 06-07 NOV 00 | 07 NOV 00 | 07 NOV 00 |
| TS Preparation | 16 NOV 00 | 20 NOV 00 | 20 NOV 00 |
| TS Administration | 17 NOV 00 | 20 NOV 00 | 20 NOV 00 |
| Natural Delivery/ Litter Observations | 15 FEB 01 | 26 FEB 01 | 26 FEB 01 |
| Blood Collection | 02 MAR 01 | 12 MAR 01 | 12 MAR 01 |
| Male Sacrifice/ Sperm Evaluations | 02 MAR 01 | 12 MAR 01 | 12 MAR 01 |
| Dam/Litter Sacrifice | 08 MAR 01 | 12 MAR 01 | 12 MAR 01 |
| Vaginal Patency | 13 MAR 01 | 13 MAR 01 | 13 MAR 01 |
| Preputial Separation | 23 MAR 01 | 30 MAR 01 | 30 MAR 01 |
| F1 Natural Delivery/ Litter Observations | 21 JUN 01 | 27 JUN 01 | 27 JUN 01 |
| F1 Blood Collection | 03 JUL 01 | 03 JUL 01 | 03 JUL 01 |
| F1 Male Sacrifice/ Sperm Evaluations | 03 JUL 01 | 05 JUL 01 | 05 JUL 01 |
| F1 Dam/Litter Sacrifice | 13 JUL 01 | 23 JUL 01 | 23 JUL 01 |
| In-Life Data | 16-24 MAY 01 | 24 MAY 01 | 24 MAY 01 |
| | 19-20 JUL 01 and 23-26 JUL 01 | 27 JUL 01 | 27 JUL 01 |
| | 19-21 NOV 01, 26-30 NOV 01 and 01,03-04 DEC 01 | 04 DEC 01 | 04 DEC 01 |
| | 10-17 DEC 01 | 17 DEC 01 | 17 DEC 01 |
| Formulations Data | 06 AUG 01 | 06 AUG 01 | 06 AUG 01 |
| | 17 DEC 01 | 17 DEC 01 | 17 DEC 01 |
| Necropsy Data | 04-07 DEC 01 | 07 DEC 01 | 07 DEC 01 |
| | 17-18 DEC 01 | 18 DEC 01 | 18 DEC 01 |

| Inspection Phase | Inspection Date(s) | Date(s) Findings Submitted to Study Director | Date(s) Findings Submitted to Management |
|---|---|---|---|
| Report Tables | 30 JUL 01 and 03 AUG 01 | 03 AUG 01 | 03 AUG 01 |
| | 30 JUL 01 to 05 AUG 01 | 06 AUG 01 | 06 AUG 01 |
| | 17-21 DEC 01 | 21 DEC 01 | 21 DEC 01 |
| Report Text | 06-09 AUG 01 | 09 AUG 01 | 09 AUG 01 |
| | 13-14 AUG 01 | 14 AUG 01 | 14 AUG 01 |
| | 17,20,21,26 DEC 01 | 26 DEC 01 | 26 DEC 01 |
| | 26-27 DEC 01 | 27 DEC 01 | 27 DEC 01 |
| | 27 DEC 01 | 27 DEC 01 | 27 DEC 01 |
| Revised Report | 25 MAR 02 | 25 MAR 02 | 25 MAR 02 |

26 Mar 02

Matthew J. Vaneman, B.S. Date
Manager of Regulatory Compliance

26 Mar 02

Cynthia M. Kelsch Date
Quality Assurance Associate/Team Leader and Principal Auditor