LYONDELL

One Houston Center, Suite 700
1221 McKinney Street
Houston, Texas 77010
Phone: 713.309.7791
Fax: 713.951.1574
betsy.duncan@lyondellbasell.com

CERTIFIED MAIL

October 3, 2008

MR#314649

RECEIVED
OPPT CBIC
2008 OCT 14 AM 7:57

Document Processing Center (7407M)
EPA EAST - Room 6428
Office of Pollution Prevention and Toxics
Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington DC 20460-0001

Attention: TSCA 8(e) Coordinator

RE: 8EHQ Number: 8EHQ-08-17146
Final Report, *A Toxicity Study of Tert-Butyl Acetate (TBAc) in Mated Female Rats*

Dear Sir or Madam:

In May 2008, Lyondell Chemical Company (Lyondell) submitted information to EPA in accordance with Section 8(e) of the Toxic Substances Control Act (TSCA) and EPA's 1991 Section 8(e) Reporting Guide. In that correspondence, Lyondell reported preliminary information from an oral developmental toxicity study of tert-butyl acetate (CASRN: 540-88-5) in mated female rats. That submission was assigned 8EHQ Number 8EHQ-08-17146. At that time, the final report for this study was not available. Lyondell has now received the final report and is hereby providing a copy to EPA.

This study was conducted by WIL Research Laboratories, LLC for Lyondell.

Should you have any questions or require additional details, please do not hesitate to call me at 713-309-7791, FAX at 713-951-1574 or by e-mail at betsy.duncan@lyondellbasell.com.

Sincerely,

Betsy Duncan

Betsy Duncan
Business Consultant – Global Chemical Control
Regulatory Corporate TSCA Coordinator
Lyondell Chemical Company

**CONTAINS NO CBI**

Enclosure

Contains No CBI

**FINAL REPORT**

**STUDY TITLE**

A TOXICITY STUDY OF TERT-BUTYL ACETATE (TBAc)
IN MATED FEMALE RATS

**STUDY NUMBER**

WIL-14069

**STUDY DIRECTOR**

Prägati Sawhney Coder, PhD

**STUDY INITIATION DATE**

6 March 2008

**STUDY COMPLETION DATE**

2 September 2008

**PERFORMING LABORATORY**

WIL Research Laboratories, LLC
1407 George Road
Ashland, OH 44805-8946

**SPONSOR**

LyondellBasell Industries
One Houston Center, Suite 1600
1221 McKinney Street
Houston, TX 77010

## COMPLIANCE STATEMENT

This study, designated WIL-14069, was conducted in compliance with the United States Environmental Protection Agency (EPA) Good Laboratory Practice Standards (40 CFR Parts 160 and 792), 16 October 1989 and 18 September 1989, respectively; the Organisation for Economic Cooperation and Development (OECD) Principles of Good Laboratory Practice [C(97) 186/Final], 26 November 1997; the standard operating procedures of WIL Research Laboratories, LLC and the protocol as approved by the sponsor with the following exception. Concentration analysis to determine the amount of test substance in the dosing formulations was not conducted. A Certificate of Analysis was provided by the sponsor (presented in Appendix B); the characterization analyses were not conducted according to Good Laboratory Practices (GLP).

Prägati Sawhney Coder

Prägati Sawhney Coder, PhD
Staff Toxicologist, Developmental and
Reproductive Toxicology
Study Director

2 Sept 2008.

Date

## TABLE OF CONTENTS

Page

**Compliance Statement** ..... **2**
**Table Of Contents** ..... **3**
**Index Of Tables** ..... **5**
**Index Of Appendices** ..... **6**
**1. Summary** ..... **7**
1.1. Objective ..... 7
1.2. Study Design ..... 7
1.3. Results ..... 7
1.4. Conclusions ..... 9
**2. Introduction** ..... **10**
2.1. General Study Information ..... 10
2.2. Key Study Dates ..... 10
**3. Study Design** ..... **11**
**4. Experimental Procedures - Materials And Methods** ..... **12**
4.1. Test Substance And Vehicle ..... 12
4.1.1. Test Substance Identification ..... 12
4.1.2. Vehicle Identification ..... 13
4.1.3. Preparation ..... 13
4.1.4. Sampling And Analyses ..... 14
4.2. Test System ..... 14
4.3. Organization Of Test Groups, Dosage Levels And Treatment Regimen ..... 15
4.4. Animal Receipt And Acclimation ..... 15
4.5. Animal Housing ..... 16
4.6. Diet, Drinking Water And Maintenance ..... 16
4.7. Environmental Conditions ..... 17

Page

4.8. Assignment Of Animals To Treatment Groups And Breeding Procedures ..... 17
**5. Parameters Evaluated ..... 19**
5.1. Maternal Observations During Gestation ..... 19
5.1.1. Clinical Observations And Survival ..... 19
5.1.2. Body Weights And Gravid Uterine Weights ..... 19
5.1.3. Food Consumption ..... 20
5.1.4. Anatomic Pathology And Laparohysterectomy ..... 20
5.1.4.1. Unscheduled Deaths ..... 20
5.1.4.2. Gestation Day 20 Laparohysterectomy ..... 20
5.2. Fetal Morphological Examination ..... 22
5.3. Statistical Analyses ..... 22
5.4. Data Retention ..... 23
**6. Results ..... 24**
6.1. Maternal Clinical Observations And Survival ..... 24
6.2. Maternal Body Weights And Gravid Uterine Weights ..... 26
6.3. Maternal Food Consumption ..... 27
6.4. Maternal Necropsy Data ..... 28
6.5. Organ Weights ..... 28
6.6. Gestation Day 20 Laparohysterectomy Data ..... 29
**7. Discussion ..... 31**
**8. Conclusions ..... 33**
**9. Key Study Personnel And Report Submission ..... 34**
**10. Quality Assurance Unit Statement ..... 36**
10.1. Phases Inspected ..... 36
10.2. Approval ..... 38
**11. References ..... 39**
**12. Deviations From The Protocol ..... 40**

## INDEX OF TABLES

Note: Some table titles have been shortened due to software spacing constraints.

Page

1. Summary Of Maternal Survival And Pregnancy Status ..... 43
2. Summary Of Clinical Findings: Total Occurrence/No. Of Animals (Daily Examinations) ..... 44
3. Summary Of Post-Dose Findings: Total Occurrence/No. Of Animals ..... 46
4. Summary Of Body Weights During Gestation [G] ..... 51
5. Summary Of Body Weight Changes During Gestation [G] ..... 55
6. Summary Of Gravid Uterine Weights And Net Body Weight Changes [G] ..... 59
7. Summary Of Food Consumption During Gestation [G/Animal/Day] ..... 60
8. Summary Of Food Consumption During Gestation [G/Kg/Day] ..... 64
9. Summary Of Maternal Macroscopic Findings ..... 68
10. Summary Of Organ Weights [G] ..... 69
11. Summary Of Organ Weights Relative To Brain Weights [G/100 G] ..... 71
12. Summary Of Fetal Data At Scheduled Necropsy ..... 72
13. Summary Of Fetal Data At Scheduled Necropsy [% Per Litter] ..... 73

## INDEX OF APPENDICES

Page

A. Individual Animal Data ..... 76

A1. Individual Clinical Observations (Daily Examinations) ..... 77

A2. Individual Clinical Observations [Positive Findings Only] (At Time Of Dosing) ..... 91

A3. Individual Clinical Observations [Positive Findings Only] (Post-Dosing Observations) ..... 93

A4. Individual Body Weights During Gestation [G] ..... 173

A5. Individual Body Weight Changes During Gestation [G] ..... 183

A6. Individual Gravid Uterine Weights And Net Body Weight Changes [G] ..... 198

A7. Individual Food Consumption During Gestation [G/Animal/Day] ..... 203

A8. Individual Food Consumption During Gestation [G/Kg/Day] ..... 218

A9. Individual Maternal Macroscopic Findings ..... 233

A10. Individual Organ Weights [G] ..... 239

A11. Individual Organ Weights Relative To Brain Weights [G/100 G] ..... 244

A12. Individual Fetal Data At Scheduled Necropsy ..... 249

A13. Individual Fetal Data At Scheduled Necropsy [% Per Litter] ..... 254

A14. Individual Fetal Weights [G] ..... 259

B. Certificate Of Analysis (Sponsor-Provided Data) ..... 264

C. Purity Analysis Of Bulk Test Substance (WIL Research Laboratories, LLC) ..... 266

D. Animal Room Environmental Conditions ..... 282

E. WIL Developmental Historical Control Data Version 3.7 [Crl:CD(SD) Rats] ..... 288

F. Study Protocol ..... 301

# 1. SUMMARY

## 1.1. OBJECTIVE

The objective of the study was to characterize maternal toxicity at the dosage levels tested and to determine a no-observed-adverse-effect level (NOAEL) for maternal toxicity.

## 1.2. STUDY DESIGN

The test substance, tert-butyl acetate (TBAc), in the vehicle, corn oil, was administered orally by gavage to 4 groups of 22 bred female Crl:CD(SD) rats once daily from gestation days 6 through 19. Dosage levels were 400, 800, 1000 and 1600 mg/kg/day administered at a dosage volume of 5 mL/kg. A concurrent control group composed of 22 females received the vehicle (corn oil) on a comparable regimen. The females were approximately 13 weeks of age at the initiation of dose administration. All animals were observed twice daily for mortality and moribundity. Clinical observations, body weights and food consumption were recorded at appropriate intervals. On gestation day 20, a laparohysterectomy was performed on each surviving female. The uteri, placentae and ovaries were examined, and the numbers of fetuses, early and late resorptions, total implantations and corpora lutea were recorded. Gravid uterine weights were recorded, and net body weights and net body weight changes were calculated. In addition, selected organs were weighed from all animals at the scheduled euthanasia. The fetuses were weighed, sexed and discarded without further examination.

## 1.3. RESULTS

In the 1600 mg/kg/day group, 1 female was found dead following dose administration on gestation day 8. In addition to this mortality at 1600 mg/kg/day, behavior-related clinical findings were noted in the 800, 1000 and 1600 mg/kg/day groups. These findings, which were observed throughout the treatment period (gestation days 6-19), consisted of rocking, lurching or swaying while ambulating, splayed hindlimbs, walking on tiptoes, flattened body, retropulsion and/or circling. Additional behavior-related clinical findings noted only in the 1600 mg/kg/day group consisted of hypoactivity, prostration, impaired

use of hindlimbs, hunched posture and dragging of body beginning on gestation day 6 and continuing until gestation day 14. All behavior-related clinical findings noted in the 800, 1000 and 1600 mg/kg/day groups were observed at 0.25, 0.5, 1 and/or 2 hours following dose administration, and with the exception of hypoactivity, did not persist to the daily examinations on the following day.

In addition to behavior-related clinical findings, lacrimation, salivation and/or evidence of salivation (clear material around the mouth) were noted at a higher incidence in the 400, 800, 1000 and 1600 mg/kg/day groups when compared to the control group. These findings were observed throughout the treatment period (gestation days 6-19) at 0.25, 0.5, 1 and/or 2 hours following dose administration. Salivation was also noted prior to daily dose administration in the test substance-treated groups.

Test substance-related mean body weight losses, lower mean body weight gains and/or reduced food consumption were noted in the 800, 1000 and 1600 mg/kg/day groups following the initiation of test substance administration (gestation days 6-9). In the 1600 mg/kg/day group, reduced food consumption continued during gestation days 9-12 and reductions in mean body weight gain and food consumption were observed when the entire treatment period (gestation days 6-20) was evaluated. Additionally, mean body weights in the 1600 mg/kg/day group were up to 5.6% lower than the control group during the treatment period. Mean body weight gains and food consumption in the 800 and 1000 mg/kg/day groups were similar to the control group following the initial reductions noted during gestation days 6-9, and mean body weights in these groups were unaffected by test substance administration. Mean body weights, body weight gains and food consumption in the 400 mg/kg/day group were unaffected by test substance administration.

Mean net body weight and net body weight gain in the 1600 mg/kg/day group were lower than the control group at the end of the study. Mean net body weights and net body

weight gains in the 400, 800 and 1000 mg/kg/day groups and mean gravid uterine weights at all dosage levels were unaffected by test substance administration.

No test substance-related macroscopic findings were noted at the scheduled necropsy. However, test substance-related increases in mean absolute and relative (to brain) liver, kidney and adrenal gland weights and decreases in mean absolute and relative (to brain) thymus weights were noted in the 1600 mg/kg/day group when compared to the control group values. Mean organ weights in the 400, 800 and 1000 mg/kg/day groups were unaffected by test substance administration.

Mean fetal body weights (male, female and combined) in the 1000 and 1600 mg/kg/day groups were significantly ($p<0.01$) lower than the control group values. Intrauterine growth in the 400 and 800 mg/kg/day groups and intrauterine survival at all dosage levels were unaffected by test substance administration.

## 1.4. CONCLUSIONS

Mortality was observed at 1600 mg/kg/day and adverse clinical findings were observed at 400, 800, 1000 and 1600 mg/kg/day. In addition, reductions in mean body weights, body weight gains and/or food consumption were observed at 800, 1000 and 1600 mg/kg/day, and changes in mean organ weights were observed at 1600 mg/kg/day. A dosage level of <400 mg/kg/day was considered to be the no-observed-adverse-effect level (NOAEL) for maternal toxicity when tert-butyl acetate was administered orally by gavage to pregnant Crl:CD(SD) rats. Effects on intrauterine growth, expressed by reductions in mean fetal body weights, were noted at 1000 and 1600 mg/kg/day.

# 2. INTRODUCTION

## 2.1. GENERAL STUDY INFORMATION

This report presents the data from "A Toxicity Study of Tert-Butyl Acetate (TBAc) in Mated Female Rats." Due to software spacing constraints, the study title is presented as "A Toxicity Study of Tert-Butyl Acetate in Mated Female Rats" on the report tables.

The following computer protocol was used for data collection during the study:

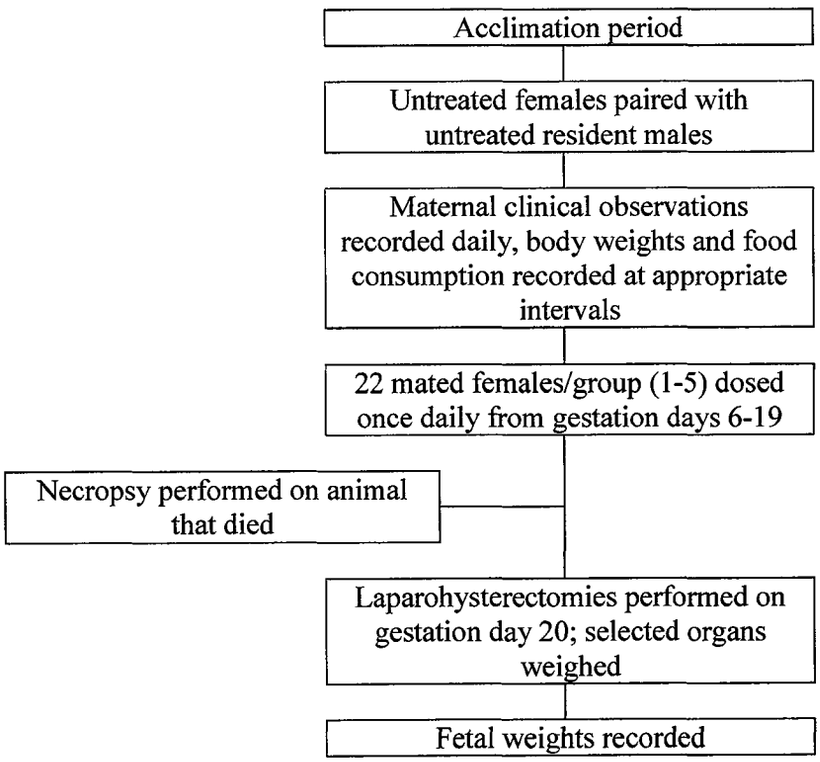
| Computer Protocol | Type of Data Collected |
|---|---|
| WIL-14069 | Main study data |

## 2.2. KEY STUDY DATES[1]

| Date(s) | Event(s) |
|---|---|
| 11 March 2008 | Experimental starting date (animal receipt) |
| 25 March 2008 | First gestation day 0 |
| 31 March - 18 April 2008 | Test substance administration |
| 19 April 2008 | Experimental termination date (last laparohysterectomy) |

[1] Date ranges represent the first and last dates of evaluation.

## 3. STUDY DESIGN



# 4. EXPERIMENTAL PROCEDURES - MATERIALS AND METHODS

## 4.1. TEST SUBSTANCE AND VEHICLE

### 4.1.1. TEST SUBSTANCE IDENTIFICATION

The first and second shipments of the test substance, tert-butyl acetate (TBAc), were received on behalf of the sponsor from Priority Solutions International, Swedesboro, New Jersey and Chemical Marketing Concepts, Inc., New Milford, Connecticut, respectively, as follows:

| Identification | Quantity Received | Physical Description | Date of Receipt |
|---|---|---|---|
| Tert-butyl acetate<br>Lot no. OD61002001<br>[WIL log no. 7896A] | 1 bottle<br>Gross weight:<br>1210.0 g | Clear, colorless liquid | 3 March 2008 |
| Tert-butyl acetate<br>Lot no. OD61002001<br>[WIL log no. 7896B] | 1 bottle<br>Gross weight:<br>1203.1 g | Clear, colorless liquid | 14 April 2008 |

Documentation regarding the purity and stability of the test substance is on file with the sponsor and WIL Research Laboratories, LLC. A Certificate of Analysis for the test substance was provided by the sponsor and is presented in Appendix B. The purity of the test substance (as noted in the sponsor-provided Certificate of Analysis) was 99.62%. However, on 26 March 2008 (prior to the start of test substance administration), a sample was collected from the bulk test substance for purity analysis. Results of the purity analysis conducted by WIL Research Laboratories, LLC indicated that the purity of the test substance was 98.72% (Appendix C). Because of the minimal decrease in purity (0.9%) from the date listed on the sponsor-provided Certificate of Analysis (1 March 2007) to the time of analysis on 26 March 2008, and the passage of 1 year, it was determined that the test substance would be stable for the duration of the dosing period in the current study. The test substance was stored at room temperature, and was considered stable under this condition. Reserve samples of the test substance (approximately 1 mL)

were collected on 20 March 2008 (WIL log no. 7896A) and 14 April 2008 (WIL log no. 7896B), and stored in the Archives of WIL Research Laboratories, LLC.

### 4.1.2. VEHICLE IDENTIFICATION

The vehicle used in preparation of the test substance formulations and for administration to the control group was corn oil (lot nos. 126K0117 and 117K0127, exp. dates: 15 January 2009 and 8 April 2009, respectively, received from Sigma Aldrich Inc., St. Louis, Missouri).

### 4.1.3. PREPARATION

For the control group, a sufficient volume of corn oil was added to a glass container with a screw top lid. Aliquots were prepared for daily dispensation to the control group. The vehicle was mixed using a magnetic stirrer throughout use.

Dosing formulations were prepared at the test substance concentrations indicated in the following table:

| Group Number | Test Substance | Dosage Level (mg/kg/day) | Test Substance Concentration (mg/mL) |
|---|---|---|---|
| 2 | TBAc | 400 | 80 |
| 3 | TBAc | 800 | 160 |
| 4 | TBAc | 1000 | 200 |
| 5 | TBAc | 1600 | 320 |

The appropriate amount of the test substance for each formulation was weighed into a calibrated glass container with a screw top lid. A stir bar and approximately 70% of the total volume of vehicle was added to each container and the formulations were mixed until uniform using a magnetic stirrer. Vehicle was then added to each container to bring the formulations to the calibration mark; the formulations were mixed until uniform using a magnetic stirrer.

The test substance formulations were prepared daily and stored at room temperature (away from ignition sources) when not in use. The test substance formulations were stirred continuously throughout the preparation, sampling and dose administration procedures and were used within 1-3 hours following preparation.

The test substance formulations were visually inspected by the deputy director on 31 March 2008, and were found to be visibly homogeneous and acceptable for dose administration.

### 4.1.4. SAMPLING AND ANALYSES

Stability, homogeneity and concentration analyses of dosing formulations were not conducted as part of this study. However, on 26 March 2008 (prior to the start of test substance administration), a sample was collected from the bulk test substance for purity analysis. The purity analysis was conducted to establish the purity of the test substance just prior to use on the current study and to investigate possible degradation of the test substance from the time of manufacturing. The purity analysis was conducted by the Analytical Chemistry Department, WIL Research Laboratories, LLC using a previously established gas chromatography method with detection by flame ionization (Kirkpatrick, 2006).

## 4.2. TEST SYSTEM

Sexually mature, virgin female Crl:CD(SD) rats from Charles River Laboratories, Inc., Raleigh, North Carolina, were used as the test system on this study.

This species and strain of animal is recognized as appropriate for general toxicity studies. WIL Research Laboratories, LLC has historical control data on the background incidence of fetal malformations and developmental variations in the Crl:CD(SD) rat. This animal model has been proven to be susceptible to the effects of maternal and developmental toxicants.

## 4.3. ORGANIZATION OF TEST GROUPS, DOSAGE LEVELS AND TREATMENT REGIMEN

The vehicle and test substance formulations were administered orally by gavage, via an appropriately sized flexible, Teflon®-shafted, stainless steel ball-tipped dosing cannula (Natume, Japan), once daily during gestation days 6-19. The dosage volume for all groups was 5 mL/kg. Individual dosages were calculated based on body weights recorded on gestation days 6, 9, 12 and 15 to provide the correct mg/kg/day dose. All animals were dosed at approximately the same time each day.

The following table presents the study group assignment:

| Group Number | Test Substance | Dosage Level (mg/kg/day) | Dosage Volume (mL/kg) | Number of Females |
|---|---|---|---|---|
| 1 | Vehicle | 0 | 5 | 22 |
| 2 | TBAc | 400 | 5 | 22 |
| 3 | TBAc | 800 | 5 | 22 |
| 4 | TBAc | 1000 | 5 | 22 |
| 5 | TBAc | 1600 | 5 | 22 |

Dosage levels were determined from the results of previous studies and were provided by the sponsor representative after consultation with the WIL study director. The dosage levels were selected based on a previous study with the addition of the 1000 mg/kg/day dosage level as a limit dose.

The selected route of administration for this study was oral (gavage). Historically, this route has been used extensively for studies of this nature. The number of animals selected for this study was the minimum required for meaningful extrapolation to the definitive prenatal developmental toxicity study.

## 4.4. ANIMAL RECEIPT AND ACCLIMATION

One hundred thirty sexually mature, virgin female Crl:CD(SD) rats were received in good health from Charles River Laboratories, Inc., Raleigh, North Carolina, on

11 March 2008. The animals were approximately 70 days old upon receipt. Each female was examined by a qualified technician on the day of receipt and weighed the following day. Each rat was uniquely identified by a Monel® metal ear tag displaying the animal number and housed for 14 days for acclimation purposes. During the acclimation period, the rats were observed twice daily for mortality and changes in general appearance and behavior. Body weights were recorded prior to the initiation of breeding.

## 4.5. ANIMAL HOUSING

Upon arrival and until pairing, all rats were individually housed in clean, stainless steel wire-mesh cages suspended above cage-board. The cage-board was changed at least 3 times per week. The rats were paired for mating in the home cage of the male. Following positive evidence of mating, the females were returned to individual suspended wire-mesh cages; nesting material was not required as the females were euthanized prior to the date of expected parturition. Animals were maintained in accordance with the *Guide for the Care and Use of Laboratory Animals* (National Research Council, 1996). The animal facilities at WIL Research Laboratories, LLC are fully accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC International).

## 4.6. DIET, DRINKING WATER AND MAINTENANCE

The basal diet used in this study, PMI Nutrition International, LLC, Certified Rodent LabDiet® 5002, is a certified feed with appropriate analyses performed by the manufacturer and provided to WIL Research Laboratories, LLC. Feed lots used during the study are documented in the study records. The feeders were changed and sanitized at least once per week. Municipal water supplying the facility is regularly sampled for contaminants according to standard operating procedures. The results of the diet and water analyses are maintained at WIL Research Laboratories, LLC. No contaminants were present in animal feed or water at concentrations sufficient to interfere with the objectives of this study. Reverse osmosis-purified (on-site) drinking water, delivered by

an automatic watering system, and the basal diet were provided ad libitum throughout the acclimation period and during the study.

## 4.7. ENVIRONMENTAL CONDITIONS

All rats were housed throughout the acclimation period and during the study in an environmentally controlled room. The room environmental controls were set to maintain daily averages of 71°F ± 5°F (22°C ± 3°C) temperature and 50% ± 20% relative humidity. Room temperature and relative humidity were controlled and monitored using the Metasys® DDC Electronic Environmental control system. These data were recorded approximately hourly and are summarized in Appendix D. Actual mean daily temperature ranged from 70.3°F to 71.6°F (21.3°C to 22.0°C) and mean daily relative humidity ranged from 40.0% to 47.5% during the study. Light timers were calibrated to provide a 12-hour light (0600 hours to 1800 hours)/12-hour dark photoperiod. Air handling units were set to provide a minimum of 10 fresh air changes per hour.

## 4.8. ASSIGNMENT OF ANIMALS TO TREATMENT GROUPS AND BREEDING PROCEDURES

At the conclusion of the acclimation period, all available females were weighed and examined in detail for physical abnormalities. At the discretion of the study director, each animal judged to be in good health and meeting acceptable body weight requirements (a minimum of 220 g) was placed in a suspended wire-mesh cage with a resident male from the same strain and source for breeding. Resident males were untreated, sexually mature rats utilized exclusively for breeding. These rats were maintained under similar laboratory conditions as the females. A breeding record containing the male and female identification numbers and the dates of cohabitation was prepared. The selected females were approximately 12 weeks old when paired for breeding.

Positive evidence of mating was confirmed by the presence of a vaginal copulatory plug or the presence of sperm in a vaginal lavage. Each mating pair was examined daily. The

day on which evidence of mating was identified was termed gestation day 0 and the animals were separated.

The experimental design for WIL-14069 consisted of 4 test substance-treated groups and 1 control group, composed of 22 rats per group. The bred females were assigned to groups using a WIL Toxicology Data Management System (WTDMS™) computer program which randomized the animals based on stratification of the gestation day 0 body weights in a block design and replacement animals were arbitrarily assigned based on body weight. Body weight values ranged from 221 g to 286 g on gestation day 0.

## 5. PARAMETERS EVALUATED

### 5.1. MATERNAL OBSERVATIONS DURING GESTATION

#### 5.1.1. CLINICAL OBSERVATIONS AND SURVIVAL

All rats were observed twice daily, once in the morning and once in the afternoon, for moribundity and mortality. Individual detailed clinical observations were recorded from gestation days 0 through 20 (prior to dose administration during the treatment period). Animals were also observed for signs of toxicity approximately 0.25, 0.5, 1 and 2 hours following dose administration. The absence or presence of findings was recorded for individual animals; however, for reporting purposes, only positive findings are presented on the individual tables. In addition, the presence of findings at the time of dose administration was recorded for individual animals.

#### 5.1.2. BODY WEIGHTS AND GRAVID UTERINE WEIGHTS

Individual maternal body weights were recorded on gestation days 0 and 6-20 (daily). Group mean body weights were calculated for each of these days. Mean body weight changes were calculated for each corresponding interval and also for gestation days 6-9, 9-12, 12-15, 15-20 and 6-20. When body weights could not be determined for an animal during a given interval (due to an unscheduled death, etc.), group mean values were calculated for that interval using the available data. The time periods when body weight values were unavailable for a given animal were designated as "NA" (Not Applicable) on the individual report tables.

Gravid uterine weight was collected and net body weight (the gestation day 20 body weight exclusive of the weight of the uterus and contents) and net body weight change (the gestation day 0-20 body weight change exclusive of the weight of the uterus and contents) were calculated and presented for each gravid female at the scheduled laparohysterectomy.

### 5.1.3. FOOD CONSUMPTION

Individual food consumption was recorded on gestation days 0 and 6-20 (daily). Food intake was reported as g/animal/day and g/kg/day for the corresponding body weight change intervals. When food consumption could not be determined for an animal during a given interval (due to an unscheduled death, weighing error, food spillage, obvious erroneous value, etc.), group mean values were calculated for that interval using the available data. The time periods when food consumption values were unavailable for a given animal were designated as "NA" (Not Applicable) on the individual report tables.

### 5.1.4. ANATOMIC PATHOLOGY AND LAPAROHYSTERECTOMY

#### 5.1.4.1. UNSCHEDULED DEATHS

A gross necropsy was performed on the female that died during the course of the study. Maternal tissues were retained in 10% neutral-buffered formalin for possible future histopathologic examination only as indicated by the gross findings. The number and location of implantation sites, corpora lutea and viable fetuses were recorded. The female and all products of conception were discarded.

#### 5.1.4.2. GESTATION DAY 20 LAPAROHYSTERECTOMY

Laparohysterectomies and macroscopic examinations were performed blind to treatment group. All surviving females were euthanized on gestation day 20 by carbon dioxide inhalation. The thoracic, abdominal and pelvic cavities were opened by a ventral mid-line incision, and the contents were examined. In all instances, the post mortem findings were correlated with the ante mortem comments, and any abnormalities were recorded. The uterus and ovaries were then exposed and excised. The number of corpora lutea on each ovary was recorded. The trimmed uterus was weighed and opened, and the number and location of all fetuses, early and late resorptions and the total number of implantation sites were recorded. The placentae were also examined. The individual uterine distribution of implantation sites was documented using the following procedure. All implantation sites, including resorptions, were numbered in consecutive order

beginning with the left distal to the left proximal uterine horn, noting the position of the cervix, and continuing from the right proximal to the right distal uterine horn.

The adrenal glands, brain, liver, kidneys and thymus from all maternal animals were weighed. Paired organs were weighed together. Organ to brain weight ratios were calculated.

Maternal tissues were preserved in 10% neutral-buffered formalin for possible future histopathologic examination only as indicated by the gross findings. Representative sections of corresponding organs from a sufficient number of control animals were retained for comparison. The carcass of each female was then discarded.

Intrauterine data were summarized using 2 methods of calculation. An example of each method of calculation follows:

1. Group Mean Litter Basis:

$$\text{Postimplantation Loss/Litter} = \frac{\text{No. Dead Fetuses, Resorptions (Early/Late)/Group}}{\text{No. Gravid Females/Group}}$$

2. Proportional Litter Basis:

$$\text{Summation Per Group (\%)} = \frac{\text{Postimplantation Loss/Litter (\%)}}{\text{No. Litters/Group}}$$

Where:

$$\text{Postimplantation Loss/Litter (\%)} = \frac{\text{No. Dead Fetuses, Resorptions (Early/Late)/Litter}}{\text{No. Implantation Sites/Litter}} \times 100$$

## 5.2. FETAL MORPHOLOGICAL EXAMINATION

Each viable fetus was individually sexed, weighed, euthanized by an intrathoracic injection of sodium pentobarbital and discarded. Crown-rump measurements and degrees of autolysis were recorded for late resorptions; these data are maintained in the study records. All carcasses were discarded.

## 5.3. STATISTICAL ANALYSES

All statistical tests were performed using appropriate computing devices or programs. Analyses were conducted using two-tailed tests (except as noted otherwise) for minimum significance levels of 1% and 5%, comparing each test substance-treated group to the control group. Each mean was presented with the standard deviation (S.D.), standard error (S.E.) and the number of animals (N) used to calculate the mean. In addition, percent difference from control was presented for body weights and organ weights. Due to the different rounding conventions inherent in the types of software used, the means, standard deviations and standard errors on the summary and individual tables may differ by ±1 in the last significant figure. Where applicable, the litter was used as the experimental unit.

Mean maternal body weights (absolute and net), body weight changes (absolute and net), food consumption, gravid uterine weights, organ weights (absolute and relative to brain weight) and numbers of corpora lutea, implantation sites and viable fetuses were subjected to a parametric one-way analysis of variance (ANOVA) (Snedecor and Cochran, 1980) to determine intergroup differences. If the ANOVA revealed significant ($p<0.05$) intergroup variance, Dunnett's test (Dunnett, 1964) was used to compare the test substance-treated groups to the control group. Mean fetal body weights (male, female and combined) were subjected to a parametric one-way analysis of covariance (ANCOVA) (SAS Institute, Inc., 1999-2001) with live litter size as the covariate, to determine intergroup differences. If the ANCOVA revealed statistically significant ($p<0.05$) intergroup variance, Dunnett's test (Dunnett, 1964) was used to compare the test substance-treated groups to the control group. Mean litter proportions (percent per litter)

of prenatal data (viable and nonviable fetuses, early and late resorptions, total resorptions, pre- and postimplantation loss, and fetal sex distribution) were subjected to the Kruskal-Wallis nonparametric ANOVA test (Kruskal and Wallis, 1952) to determine intergroup differences. If the ANOVA revealed significant ($p<0.05$) intergroup variance, Dunn's test (Dunn, 1964) was used to compare the test substance-treated groups to the control group.

## 5.4. DATA RETENTION

The sponsor has title to all documentation records, raw data, specimens or other work product generated during the performance of the study. All work product generated by WIL Research Laboratories, LLC, including raw paper data and specimens, are retained in the Archives at WIL Research Laboratories, LLC, as specified in the study protocol.

Reserve samples of the test substance, pertinent electronic storage media and the original final report are retained in the Archives at WIL Research Laboratories, LLC in compliance with regulatory requirements.

# 6. RESULTS

## 6.1. MATERNAL CLINICAL OBSERVATIONS AND SURVIVAL

Summary Data: Tables 1, 2, 3

Individual Data: Appendix A - Tables A1, A2, A3

Maternal toxicity was evidenced by mortality in the 1600 mg/kg/day group as 1 female (no. 10707) was found dead 47 minutes following dose administration on gestation day 8. This female was noted with behavior-related clinical findings (rocks, lurches or sways while ambulating) and lacrimation following dose administration 1 and/or 2 days prior to death (gestation days 6 and 7). In addition, female no. 10707 was noted with behavior-related clinical findings (splayed hindlimbs, hypoactivity and prostration) and had clear material around the nose and mouth following dose administration on the day of death. Because the findings observed for female no. 10707 were similar to those observed for the surviving females in the 1600 mg/kg/day group, and as a result of the immediate onset of these adverse clinical signs, this single death in the high-dose group was considered test substance-related. All other females in the 1600 mg/kg/day group and all females in the control, 400, 800 and 1000 mg/kg/day groups survived to the scheduled necropsy on gestation day 20.

Behavior-related clinical findings were noted in the 800, 1000 and 1600 mg/kg/day groups primarily at 0.25, 0.5 and/or 1 hour following dose administration and were attributed to test substance administration. Rocking, lurching or swaying while ambulating was noted in 13, 19 and 22 animals in the 800, 1000 and 1600 mg/kg/day groups, respectively, beginning on gestation day 6 and continuing through gestation day 19. This finding persisted to 2 hours following dose administration in the 1000 and 1600 mg/kg/day groups. Walking on tiptoes was noted for 4, 1 and 5 females in the 800, 1000 and 1600 mg/kg/day groups, respectively, during gestation days 7-14; with the exception of 1 female in the 1600 mg/kg/day group that was noted walking on tiptoes on 2 consecutive days (gestation days 13 and 14), this finding was only noted on 1 occasion in each animal. Splayed hindlimbs was noted on 1-4 occasions for 5 and 9 females in the

1000 and 1600 mg/kg/day groups, respectively, beginning on gestation day 6 and continuing until gestation day 16, and flattened body was noted for 1 and 2 females in the 800 and 1600 mg/kg/day groups, respectively, on gestation day 8 or 10. Three females in the 800 mg/kg/day group were noted circling and/or with retropulsion on gestation day 8 and/or 9; these findings persisted to the 2 hour post-dosing evaluation on 1 occasion and were not observed at higher dosage levels (1000 or 1600 mg/kg/day). Other behavior-related clinical findings noted only in the high-dose group (1600 mg/kg/day) consisted of hypoactivity, prostration, impaired use of right and/or left hindlimb, dragging body, and hunched posture. These findings were noted for 1-4 animals each and were observed at 0.25, 0.5, 1 and/or 2 hours following dose administration beginning on gestation day 6 and continuing until gestation 14. None of the behavior-related clinical findings noted in the 800, 1000, 1600 mg/kg/day groups following dose administration persisted to the daily examinations on the following day except for hypoactivity, which was noted for 2 animals in the 1600 mg/kg/day group following dose administration on gestation day 8 and again at the daily examination on gestation day 9.

In addition to behavior-related clinical findings, lacrimation, salivation and clear material around the mouth were noted in all test substance-treated groups throughout the treatment period (gestation days 6-19) and were attributed to test substance administration. Lacrimation was noted for 7, 20, 20 and 22 animals in the 400, 800, 1000 and 1600 mg/kg/day groups, respectively, compared to only 2 animals in the control group. Lacrimation was primarily observed at 0.25, 0.5, 1 and/or 2 hours following dose administration. Salivation or evidence thereof (clear material around the mouth) was observed for 18, 20, 22 and 22 animals in the 400, 800, 1000 and 1600 mg/kg/day groups, respectively, compared to 11 animals in the control group. These findings were observed prior to daily dose administration (in the test substance-treated groups only) and at 0.25, 0.5 and/or 1 hour following dose administration; clear material around the mouth was also observed for 5 animals in the 1600 mg/kg/day group at 2 hours following dose administration.

No other test substance-related clinical findings were noted at the daily examinations or 0.25, 0.5, 1 or 2 hours following dose administration at any dosage level. Rales were noted for 1 and 3 females in the 800 and 1600 mg/kg/day groups, respectively; however, this finding was not considered test substance-related because it was not observed in a dose-related manner. Other findings noted in the treated groups, including hair loss and scabbing on various body surfaces, red vaginal discharge, red material around the nose, mouth or eyes, and dilated pupils, occurred infrequently, at similar frequencies in the control group, and/or in a manner that was not dose-related.

## 6.2. MATERNAL BODY WEIGHTS AND GRAVID UTERINE WEIGHTS

Summary Data: Tables 4, 5, 6

Individual Data: Appendix A - Tables A4, A5, A6

Test substance-related, significantly ($p<0.01$) lower mean body weight gains/losses were noted in the 800, 1000 and 1600 mg/kg/day groups during gestation days 6-9 when compared to the control group. Mean body weight gain in 1600 mg/kg/day group was similar to the control group during the remainder of the treatment period (gestation days 9-12, 12-15 and 15-20). However, as a result of the initial reduction in mean body weight gain in the 1600 mg/kg/day group during gestation days 6-9, mean body weight gain in this group was significantly ($p<0.01$) lower than the control group when the entire treatment period (gestation days 6-20) was evaluated. Additionally, mean body weights in the 1600 mg/kg/day group were up to 5.6% lower (not statistically significant) than the control group during the treatment period. Following the reduction in mean body weight gain during gestation days 6-9, mean body weight gains in the 800 and 1000 mg/kg/day groups were similar to the control group during gestation days 9-12, 12-15, 15-20 and when the entire treatment period (gestation days 6-20) was evaluated. Mean body weights in the 800 and 1000 mg/kg/day groups were unaffected by test substance administration.

Mean net body weight and net body weight gain in the 1600 mg/kg/day group were significantly ($p<0.05$ or $p<0.01$) lower than the control group; the difference was attributed to test substance administration. Mean gravid uterine weight in the 1600 mg/kg/day group was similar to that in the control group.

Mean maternal body weights and body weight gains in the 400 mg/kg/day group and mean net body weights, net body weight gains and gravid uterine weights in the 400, 800 and 1000 mg/kg/day groups were unaffected by test substance administration. Mean net body weight gain in the in the 1000 mg/kg/day group was significantly ($p<0.05$) lower than the control group; however, in the absence of an effect on net body weight, the lower net body weight gain in this group was not considered test substance-related. Other differences from the control group were slight and not statistically significant.

## 6.3. MATERNAL FOOD CONSUMPTION

Summary Data: Tables 7, 8

Individual Data: Appendix A - Tables A7, A8

Mean food consumption, evaluated as g/animal/day and g/kg/day, in the 800, 1000 and 1600 mg/kg/day groups was significantly ($p<0.05$ or $p<0.01$) lower than the control group during gestation days 6-9. These reductions in mean food consumption were considered test substance-related and corresponded the lower mean body weight gains/losses noted in these same groups during this period. Mean food consumption in the 1600 mg/kg/day group remained significantly ($p<0.01$) lower than the control group during gestation days 9-12. Although mean food consumption in the 1600 mg/kg/day group was similar to the control during the latter part of the treatment period (gestation days 12-15 and 15-20), mean food consumption in this group was lower than the control group when the entire treatment period (gestation days 6-20) was evaluated; the difference was significant ($p<0.01$) when evaluated on a g/animal/day basis only. Mean food consumption in the 800 and 1000 mg/kg/day groups was similar to the control group

during the remainder of the treatment period (gestation days 9-12, 12-15 and 15-20) and when the entire treatment period (gestation days 6-20) was evaluated.

Mean food consumption in the 400 mg/kg/day group was unaffected by test substance administration. The significant ($p<0.05$ or $p<0.01$) reduction in mean food consumption noted in the 400 mg/kg/day group during gestation days 7-8 when compared to the control group was considered transient and unrelated to test substance administration. Other differences from the control group were slight and not statistically significant.

## 6.4. MATERNAL NECROPSY DATA

Summary Data: Table 9

Individual Data: Appendix A - Table A9

Test substance-related mortality was noted in the 1600 mg/kg/day group as 1 female (no. 10707) was found dead on gestation day 8. At necropsy, female no. 10707 was gravid with 13 normally developing implantation in utero and had a small left kidney with severely distended ureters and a severely dilated renal pelvis. All other females survived to the scheduled necropsy.

At the scheduled necropsy on gestation day 20, no test substance-related internal findings were observed at dosage levels of 400, 800, 1000 and 1600 mg/kg/day. Macroscopic findings observed in the test substance-treated groups occurred infrequently, at similar frequencies in the control group and/or in a manner that was not dose-related.

## 6.5. ORGAN WEIGHTS

Summary Data: Tables 10, 11

Individual Data: Appendix A - Tables A10, A11

Test substance-related effects on mean organ weights (absolute and relative to brain weight) were observed at 1600 mg/kg/day. Substantially lower mean absolute and relative (to brain) thymus weights and substantially higher mean absolute and relative (to brain) weights of the adrenal glands were noted in the 1600 mg/kg/day group when

compared to the control group values; the differences were significant ($p<0.01$). In addition, mean absolute and relative (to brain) liver and kidney weights in this group were slightly higher than the control group values; the differences in relative weights were significant ($p<0.05$ or $p<0.01$). When the control and 1600 mg/kg/day groups were compared, the magnitude of difference in the mean weights of the thymus and adrenal glands were greater than the magnitude of difference in the mean weights of the liver and kidneys.

No test substance-related effects on organ weights (absolute and relative to brain weight) were observed at 400, 800 or 1000 mg/kg/day. None of the differences from the control group were statistically significant.

## 6.6. GESTATION DAY 20 LAPAROHYSTERECTOMY DATA

Summary Data: Tables 12, 13

Individual Data: Appendix A - Tables A12, A13, A14

Historical Control Data: Appendix E

Test substance-related effects on mean fetal body weights were noted at 1000 and 1600 mg/kg/day. Mean fetal body weights (male, female and combined) in these groups were significantly ($p<0.01$) lower (7.7%-10.8%) than the concurrent control group values. Mean female fetal body weights in the 1600 mg/kg/day group (3.3 g) were also lower than the minimum mean value in the WIL historical control data (3.4 g). These lower mean fetal body weights at 1000 and 1600 mg/kg/day may be partially attributed to the relatively larger live litter sizes in these groups (approximately 15-16 fetuses) compared to the concurrent control group (approximately 14 fetuses). Intrauterine survival and fetal sex ratio in the 1000 and 1600 mg/kg/day groups were unaffected by test substance administration.

Intrauterine growth and survival were unaffected by test substance administration at dosage levels of 400 and 800 mg/kg/day. Parameters evaluated included postimplantation loss, live litter size, mean fetal body weights and fetal sex ratios.

Slightly lower (5.1%-5.4%) mean fetal body weights (male, female and combined) were observed in the 400 and 800 mg/kg/day groups when compared to the concurrent control group values; the differences in male and combined fetal body weights were significant ($p<0.05$). However, because the mean fetal body weights in the 400 and 800 mg/kg/day groups were equal to the mean values in the WIL historical control database and the magnitude of change (0.2 g) from the concurrent control group values was relatively small in these groups when compared to the magnitude of change in the 1000 and 1600 mg/kg/day groups, the differences at 400 and 800 mg/kg/day were not considered test substance-related. Mean numbers of corpora lutea and implantation sites and the mean litter proportions of preimplantation loss were similar across all groups.

## 7. DISCUSSION

The objective of the study was to characterize maternal toxicity at the dosage levels tested and to determine a no-observed-adverse-effect level (NOAEL) for maternal toxicity.

Maternal toxicity was evidenced by mortality at 1600 mg/kg/day and test substance-related clinical findings at 400, 800, 1000 and 1600 mg/kg/day. In the 1600 mg/kg/day group, 1 female was found dead on gestation day 8 after receiving 3 doses of the test substance. Behavior-related clinical findings were noted in the 800, 1000 and 1600 mg/kg/day groups at approximately 0.25, 0.5, 1 and/or 2 hours following dose administration and consisted of rocking, lurching or swaying while ambulating, splayed hindlimbs, walking on tiptoes, flattened body, retropulsion and/or circling. These findings were observed throughout the treatment period. Additional behavior-related clinical findings noted only in the 1600 mg/kg/day group consisted of hypoactivity, prostration, impaired use of hindlimbs, hunched posture and dragging of body. The behavior-related clinical findings observed only in the 1600 mg/kg/day group were observed at approximately 0.25, 0.5, 1 and/or 2 hours following dose administration beginning on gestation day 6 and continuing until gestation 14. With the exception of hypoactivity, none of the behavior-related clinical findings noted in the 800, 1000, 1600 mg/kg/day groups following dose administration persisted to the daily examinations on the following day.

In addition to behavior-related clinical findings, lacrimation, salivation and/or evidence of salivation (clear material around the mouth) were noted at higher incidences in the 400, 800, 1000 and 1600 mg/kg/day groups when compared to the control group. These findings were considered test substance-related and were observed throughout the treatment period (gestation days 6-19) at approximately 0.25, 0.5, 1 and/or 2 hours following dose administration. Salivation was also observed prior to daily dose administration in the test substance-treated groups. Lacrimation and salivation (or evidence thereof) may be related to the palatability of the test article.

Test substance-related, lower mean body weight gains/losses and food consumption were noted in the 800, 1000 and 1600 mg/kg/day groups following the initiation of test substance administration (gestation days 6-9); differences from the control group were significant ($p<0.05$ or $p<0.01$). In the 1600 mg/kg/day group, significantly ($p<0.01$) reduced mean food consumption continued during gestation days 9-12 and significant ($p<0.01$) reductions in mean body weight gain and food consumption (g/animal/day only) were observed when the entire treatment period (gestation days 6-20) was evaluated. Additionally, mean body weights in the 1600 mg/kg/day group were up to 5.6% lower (not statistically significant) than the control group during the treatment period and a significantly ($p<0.05$ or $p<0.01$) lower mean net body weight and body weight gain were noted in this group at the end of the study. Mean body weight gains and food consumption in the 800 and 1000 mg/kg/day groups were similar to the control group following the initial reductions noted during gestation days 6-9. Mean body weights in the 800 and 1000 mg/kg/day group were unaffected by test substance administration (only 2.0% and 3.2% lower than control group, respectively, on gestation day 20).

Test substance-related increases in mean absolute and relative (to brain) liver, kidney and adrenal gland weights and decreases in mean absolute and relative (to brain) thymus weights were noted in the 1600 mg/kg/day group when compared to the control group values.

Mean fetal body weights (male, female and combined) in the 1000 and 1600 mg/kg/day groups were significantly ($p<0.01$) lower than the control group values and were considered a consequence of test substance administration. Intrauterine growth in the 400 and 800 mg/kg/day groups and intrauterine survival at all dosage levels were unaffected by test substance administration.

## 8. CONCLUSIONS

Mortality was observed at 1600 mg/kg/day and adverse clinical findings were observed at 400, 800, 1000 and 1600 mg/kg/day. In addition, reductions in mean body weights, body weight gains and/or food consumption were observed at 800, 1000 and 1600 mg/kg/day, and changes in mean organ weights were observed at 1600 mg/kg/day. A dosage level of <400 mg/kg/day was considered to be the no-observed-adverse-effect level (NOAEL) for maternal toxicity when tert-butyl acetate was administered orally by gavage to pregnant Crl:CD(SD) rats. Effects on intrauterine growth, expressed by reductions in mean fetal body weights, were noted at 1000 and 1600 mg/kg/day.

## 9. KEY STUDY PERSONNEL AND REPORT SUBMISSION

Report Submitted By:

Prägati Sawhney Coder, PhD
Staff Toxicologist, Developmental and
Reproductive Toxicology
Study Director

2 Sept 2008
Date

Report Prepared By:

Jaime L. Bard, MS
Study Analyst

29 Aug 2008
Date

Report Reviewed By:

Mark D. Nemec, BS, DABT
Director, Developmental and
Reproductive Toxicology

29 Aug. 2008
Date

Christian Steinfort, BS
Study Analyst

29 Aug 2008
Date

Donald G. Stump, PhD, DABT
Associate Director, Developmental and
Reproductive Toxicology

29 Aug 2008
Date

## KEY STUDY PERSONNEL AND REPORT SUBMISSION (CONTINUED)

Study Personnel:

| | |
|---|---|
| Sally A. Keets, AS | Senior Operations Manager, Vivarium |
| Carol A. Kopp, BS, LAT | Manager, Gross Pathology and Developmental Toxicology Laboratory |
| Theresa M. Rafeld | Group Manager, Formulations Laboratory |
| Daniel W. Sved, PhD | Director, Metabolism and Analytical Chemistry |
| Bennett J. Varsho, MPH, DABT | Operations Manager, Developmental and Reproductive Toxicology and the Formulations Laboratory |
| Robert A. Wally, BS, RAC | Manager, Reporting and Regulatory Technical Services |

# 10. QUALITY ASSURANCE UNIT STATEMENT

## 10.1. PHASES INSPECTED

| Date(s) of Inspection(s) | Phase Inspected | Date(s) Findings Reported to Study Director | Date(s) Findings Reported to Management | Auditor(s) |
|---|---|---|---|---|
| 24-Mar-2008, 25-Mar-2008 | Cohabitation/Confirmation of Breeding | 25-Mar-2008 | 24-Apr-2008 | C.Heifner |
| 31-Mar-2008 | Test Article Preparation | 31-Mar-2008 | 24-Apr-2008 | C.Heifner |
| 31-Mar-2008 | Test Article Administration | 31-Mar-2008 | 24-Apr-2008 | M.Karna |
| 14-Apr-2008 | Laparohysterectomy | 19-May-2008 | 23-Jun-2008 | P.Spreng / T.DeVan Booth |
| 15-May-2008, 27-May-2008 | Study Records (I-1) | 27-May-2008 | 23-Jun-2008 | M.Karna |
| 19-May-2008 | Study Records (Rx-1) | 19-May-2008 | 23-Jun-2008 | M.Karna |
| 19-May-2008, 20-May-2008 | Study Records (N-1) | 20-May-2008 | 23-Jun-2008 | M.Karna |
| 29-May-2008 | Study Records (A-1, A-2) | 29-May-2008 | 23-Jun-2008 | N.Daniels |
| 03-Jun-2008, 04-Jun-2008, 05-Jun-2008 | Draft Report (without Analytical Chemistry Appendix) | 05-Jun-2008 | 23-Jul-2008 | M.Karna |
| 04-Jun-2008 | Draft Report (Analytical Chemistry Appendix) | 04-Jun-2008 | 23-Jul-2008 | N.Daniels |

This study was inspected in accordance with the U.S. EPA Good Laboratory Practice Standards (40 CFR Parts 160 and 792), the OECD Principles of Good Laboratory Practice, the standard operating procedures of WIL Research Laboratories, LLC and the sponsor's protocol and protocol amendments with the following exceptions. The data located in Appendix B (Certificate of Analysis) were the responsibility of the sponsor. Quality Assurance findings, derived from the inspections during the conduct of the study and from the inspections of the raw data and draft report, are documented and have been reported to the study director. A status report is submitted to management monthly.

This report accurately reflects the data generated during the study. The methods and procedures used in the study were those specified in the protocol, its amendments and the standard operating procedures of WIL Research Laboratories, LLC.

The raw data, the retention samples and the final report will be stored in the Archives at WIL Research Laboratories, LLC or another location specified by the sponsor.

## 10.2. APPROVAL

This study was inspected according to the criteria discussed in Section 10.1.

Report Audited By:

Nancy J. Daniels
Compliance Specialist

2 Sept 2008
Date

Milan Karna, BA
Compliance Specialist

2 Sep 2008
Date

Report Released By:

Heather L. Johnson, BS, RQAP-GLP
Manager, Quality Assurance

2 Sep 2008
Date

## 11. REFERENCES

Dunn, O.J. Multiple comparisons using rank sums. *Technometrics* **1964**, *6(3)*, 241-252.

Dunnett, C.W. New tables for multiple comparisons with a control. *Biometrics* **1964**, *20*, 482-491.

Kruskal, W.H.; Wallis, W.A. Use of ranks in one-criterion variance analysis. *Journal of the American Statistical Association* **1952**, *47*, 583-621.

National Research Council. *Guide for the Care and Use of Laboratory Animals*, Institute of Laboratory Animal Resources, Commission on Life Sciences; National Academy Press: Washington, DC, **1996**.

SAS® Proprietary Software, Version 8.2 SAS Institute, Inc.: Cary, NC, **1999-2001**.

Snedecor, G.W.; Cochran, W.G. One Way Classifications; Analysis of Variance. In *Statistical Methods*, 7th ed.; The Iowa State University Press: Ames, IA, **1980**; pp 215-237.

Kirkpatrick, D.T. A combined 13-week subchronic inhalation toxicity study and reproductive toxicity screening test of Tertiary-butyl acetate in rats (Study No. WIL 14060). WIL Research Laboratories, LLC, Ashland, OH, **2006**.

## 12. DEVIATIONS FROM THE PROTOCOL

This study was conducted in accordance with the protocol and protocol amendments, except for the following.

- **Protocol Section 7.5.4** states that all animals would be dosed at approximately the same time each day. However, on 14 April 2008 (gestation day 15, 16, 17, 18, 19 or 20) all animals were dosed approximately 3 hours later than the time they were dosed on the previous day.

- **Protocol Section 7.7.1** states that each animal would be observed at approximately 0.25, 0.5, 1 and 2 hours following dose administration. However, on gestation day 6, the 0.25 hour (15 minutes) post-dosing evaluation for female nos. 10672 and 10659 in the 1000 and 1600 mg/kg/day groups, respectively, was conducted 20 minutes following dose administration, the 0.5 hour post-dosing evaluation for female nos. 10685, 10674 and 10672 in the 1000 mg/kg/day group was conducted 39 or 40 minutes following dose administration, and the 1 hour post-dosing observation for female nos. 10706, 10604, 10633 and 10647 in the control group was conducted 1 hour 17 minutes or 1 hour 18 minutes following dose administration. Additionally, the 0.5 hour post-dosing evaluation for female no. 10676 in the 1000 mg/kg/day group on gestation day 7 and female nos. 10631 and 10689 in the 800 and 1600 mg/kg/day groups, respectively, on gestation day 8 was conducted 39 minutes following dose administration. Furthermore, the 0.25-hour post-dosing evaluation was not performed on female nos. 10611, 10620 and 10707 in the 1600 mg/kg/day group on gestation day 6 and female nos. 10613 and 10608 in this same group on gestation days 18 and 19, respectively.

- **Protocol Section 7.8** states that gravid uterine weights would be obtained and recorded. However, a gravid uterine weight was not recorded for female no. 10699 in the 400 mg/kg/day group.

- **Protocol Section 7.8** states that maternal tissues would be preserved for future histopathologic examination in 10% neutral-buffered formalin only as deemed necessary by the gross findings. At necropsy, female no. 10630 in the 1000 mg/kg/day group was noted with dark red areas on the thymus; however, this gross lesion was not saved.

- **Protocol Section 7.8** states that each viable fetus would be sexed, weighed, euthanized by an intrathoracic injection of sodium pentobarbital and discarded. However, the comment of "no remarkable observations" was recorded at the time of sex determination for all fetuses of female nos. 10699 and 10630 in the 400 and 1000 mg/kg/day groups, respectively, indicating that these fetuses may have also been examined externally. In addition, there is no documentation that fetuses were euthanized by an injection of sodium pentobarbital. Because hypothermia is to precede intrathoracic injection of sodium pentobarbital according to WIL Research Laboratories, LLC's SOPs, it was determined that fetuses were euthanized by hypothermia only.

These deviations did not negatively impact the quality or integrity of the data or the outcome of the study.

# TABLES 1 - 13

TABLE 1

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF MATERNAL SURVIVAL AND PREGNANCY STATUS

| DOSE GROUP : | 1 | | 2 | | 3 | | 4 | | 5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | NO. | % | NO. | % | NO. | % | NO. | % | NO. | % |
| FEMALES ON STUDY | 22 | | 22 | | 22 | | 22 | | 22 | |
| FEMALES THAT ABORTED OR DELIVERED | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| FEMALES THAT DIED | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 4.5 |
| FEMALES THAT ABORTED | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| NONGRAVID | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| GRAVID | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 100.0 |
| FEMALES THAT WERE EUTHANIZED | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| NONGRAVID | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| GRAVID | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| FEMALES EXAMINED AT SCHEDULED NECROPSY | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 21 | 95.5 |
| NONGRAVID | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| GRAVID | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 21 | 100.0 |
| WITH RESORPTIONS ONLY | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| WITH VIABLE FETUSES | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 21 | 100.0 |
| TOTAL FEMALES GRAVID | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 | 22 | 100.0 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

PSPSv4.01
05/12/2008

TABLE 2 (DAILY EXAMINATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

----- F E M A L E -----

| TABLE RANGE: | 03-25-08 TO 04-19-08 | | | | |
|---|---|---|---|---|---|
| GROUP: | 1 | 2 | 3 | 4 | 5 |
| NORMAL | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 392/22 | 334/19 | 393/22 | 429/22 | 401/21 |
| DISPOSITION | | | | | |
| -FOUND DEAD | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 |
| -SCHEDULED EUTHANASIA; GESTATION DAY 20 | 22/22 | 22/22 | 22/22 | 22/22 | 21/21 |
| BEHAVIOR/CNS | | | | | |
| -HYPOACTIVITY | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 2/ 2 |
| BODY/INTEGUMENT | | | | | |
| -HAIR LOSS RIGHT FORELIMB | 54/10 | 111/12 | 64/ 7 | 24/ 6 | 46/ 4 |
| -HAIR LOSS LEFT FORELIMB | 49/ 9 | 119/ 9 | 61/ 6 | 18/ 5 | 46/ 4 |
| -HAIR LOSS RIGHT HINDLIMB | 5/ 3 | 14/ 3 | 29/ 3 | 3/ 1 | 21/ 3 |
| -HAIR LOSS LEFT HINDLIMB | 3/ 2 | 23/ 4 | 28/ 3 | 4/ 2 | 22/ 3 |
| -HAIR LOSS RUMP | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 | 0/ 0 |
| -SCABBING LEFT FORELIMB | 1/ 1 | 5/ 1 | 2/ 2 | 3/ 1 | 4/ 1 |
| -SCABBING RIGHT FORELIMB | 1/ 1 | 2/ 2 | 1/ 1 | 0/ 0 | 5/ 1 |
| -HAIR LOSS VENTRAL ABDOMINAL AREA | 3/ 1 | 0/ 0 | 1/ 1 | 0/ 0 | 0/ 0 |
| -SCABBING RIGHT HINDLIMB | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 4/ 1 |
| -SCABBING LEFT HINDLIMB | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 4/ 1 |
| -HAIR LOSS DORSAL ABDOMINAL AREA | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 | 1/ 1 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE 2 (DAILY EXAMINATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

----- F E M A L E -----

| TABLE RANGE: | 03-25-08 TO 04-19-08 | | | | |
|---|---|---|---|---|---|
| GROUP: | 1 | 2 | 3 | 4 | 5 |
| BODY/INTEGUMENT | | | | | |
| -HAIR LOSS DORSAL HEAD | 3/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| EYES/EARS/NOSE | | | | | |
| -DRIED RED MATERIAL AROUND RIGHT EYE | 12/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| -LACRIMATION RIGHT EYE | 2/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 |
| -LACRIMATION LEFT EYE | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 1/ 1 |
| -DRIED RED MATERIAL AROUND NOSE | 0/ 0 | 0/ 0 | 1/ 1 | 0/ 0 | 0/ 0 |
| ORAL/DENTAL | | | | | |
| -TEETH LONG; TRIMMED | 2/ 1 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE 3

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL SUMMARY OF POST-DOSE FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

----- F E M A L E -----

| TABLE RANGE: 03-31-08 TO 04-18-08 GROUP: | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| NORMAL | | | | | |
| 0.25 HOUR POST-DOSING | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 294/22 | 240/22 | 183/22 | 164/22 | 94/21 |
| UNSCHED OBS (>19,<22 MINS) | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 0/0 | 0/0 | 0/0 | 1/1 | 0/0 |
| 0.5 HOUR POST-DOSING | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 305/22 | 258/22 | 220/22 | 200/22 | 139/22 |
| UNSCHED OBS (>38,<45 MINS) | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 0/0 | 0/0 | 0/0 | 3/3 | 0/0 |
| 1 HOUR POST-DOSING | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 302/22 | 302/22 | 267/22 | 230/22 | 149/22 |
| UNSCHED OBS (>75,<90 MINS) | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 4/4 | 0/0 | 0/0 | 0/0 | 0/0 |
| 2 HOUR POST-DOSING | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 308/22 | 306/22 | 279/22 | 265/22 | 185/21 |
| UNSCHED OBS (>150 MINS) | | | | | |
| -NO SIGNIFICANT CLINICAL OBSERVATIONS | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| BEHAVIOR/CNS | | | | | |
| 0.25 HOUR POST-DOSING | | | | | |
| -ROCKS, LURCHES, OR SWAYS AS IT WALKS | 0/0 | 0/0 | 15/11 | 30/14 | 87/19 |
| -HYPOACTIVITY | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| -HINDLIMBS SPLAYED | 0/0 | 0/0 | 0/0 | 2/2 | 9/7 |
| -PROSTRATE | 0/0 | 0/0 | 0/0 | 0/0 | 2/1 |
| -BODY FLAT | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

----- F E M A L E -----

| TABLE RANGE: 03-31-08 TO 04-18-08 GROUP: | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| -IMPAIRED USE OF RIGHT HINDLIMB | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| -BODY DRAGS | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| -WALKS ON TIPTOES | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| UNSCHED OBS (>19,<22 MINS) | | | | | |
| -ROCKS, LURCHES, OR SWAYS AS IT WALKS | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| 0.5 HOUR POST-DOSING | | | | | |
| -ROCKS, LURCHES, OR SWAYS AS IT WALKS | 0/0 | 0/0 | 10/6 | 34/13 | 74/21 |
| -HYPOACTIVITY | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| -HINDLIMBS SPLAYED | 0/0 | 0/0 | 0/0 | 3/3 | 5/5 |
| -PROSTRATE | 0/0 | 0/0 | 0/0 | 0/0 | 5/4 |
| -BODY FLAT | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| -IMPAIRED USE OF RIGHT HINDLIMB | 0/0 | 0/0 | 0/0 | 0/0 | 6/3 |
| -IMPAIRED USE OF LEFT HINDLIMB | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| -HUNCHED POSTURE | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| -WALKS ON TIPTOES | 0/0 | 0/0 | 1/1 | 0/0 | 6/5 |
| UNSCHED OBS (>38,<45 MINS) | | | | | |
| -ROCKS, LURCHES, OR SWAYS AS IT WALKS | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| -RETROPULSION | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| -CIRCLING | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| 1 HOUR POST-DOSING | | | | | |
| -ROCKS, LURCHES, OR SWAYS AS IT WALKS | 0/0 | 0/0 | 3/3 | 31/14 | 96/22 |
| -HYPOACTIVITY | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| -HINDLIMBS SPLAYED | 0/0 | 0/0 | 0/0 | 1/1 | 3/2 |
| -RETROPULSION | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| -CIRCLING | 0/0 | 0/0 | 2/2 | 0/0 | 0/0 |
| -PROSTRATE | 0/0 | 0/0 | 0/0 | 0/0 | 4/2 |
| -BODY FLAT | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| -IMPAIRED USE OF RIGHT HINDLIMB | 0/0 | 0/0 | 0/0 | 0/0 | 4/3 |
| -IMPAIRED USE OF LEFT HINDLIMB | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE 3

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 3

SPONSOR:LYONDELLBASELL SUMMARY OF POST-DOSE FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

----- F E M A L E -----

| TABLE RANGE: 03-31-08 TO 04-18-08 GROUP: | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| -BODY DRAGS | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| -WALKS ON TIPTOES | 0/0 | 0/0 | 2/2 | 1/1 | 0/0 |
| 2 HOUR POST-DOSING | | | | | |
| -ROCKS, LURCHES, OR SWAYS AS IT WALKS | 0/0 | 0/0 | 0/0 | 8/7 | 47/20 |
| -HYPOACTIVITY | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| -RETROPULSION | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| -CIRCLING | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| -PROSTRATE | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| -IMPAIRED USE OF RIGHT HINDLIMB | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| BODY/INTEGUMENT | | | | | |
| 0.25 HOUR POST-DOSING | | | | | |
| -WET CLEAR MATERIAL VENTRAL NECK | 0/0 | 0/0 | 0/0 | 1/1 | 0/0 |
| -WED RED VAGINAL DISCHARGE | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| 0.5 HOUR POST-DOSING | | | | | |
| -WET YELLOW MATERIAL UROGENITAL AREA | 0/0 | 0/0 | 1/1 | 0/0 | 1/1 |
| -WED RED VAGINAL DISCHARGE | 0/0 | 3/2 | 0/0 | 0/0 | 0/0 |
| 2 HOUR POST-DOSING | | | | | |
| -WET YELLOW MATERIAL UROGENITAL AREA | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| CARDIO-PULMONARY | | | | | |
| 0.5 HOUR POST-DOSING | | | | | |
| -RALES | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| 1 HOUR POST-DOSING | | | | | |
| -RALES | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

----- F E M A L E -----

| TABLE RANGE: 03-31-08 TO 04-18-08 GROUP: | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| 2 HOUR POST-DOSING | | | | | |
| -RALES | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| EYES/EARS/NOSE | | | | | |
| 0.25 HOUR POST-DOSING | | | | | |
| -LACRIMATION RIGHT EYE | 1/1 | 0/0 | 43/17 | 49/18 | 73/19 |
| -LACRIMATION LEFT EYE | 0/0 | 0/0 | 42/18 | 49/18 | 74/19 |
| -DILATED PUPIL RIGHT EYE | 0/0 | 0/0 | 0/0 | 2/2 | 1/1 |
| -DILATED PUPIL LEFT EYE | 0/0 | 0/0 | 0/0 | 2/2 | 1/1 |
| 0.5 HOUR POST-DOSING | | | | | |
| -LACRIMATION RIGHT EYE | 0/0 | 6/6 | 18/15 | 23/16 | 49/20 |
| -LACRIMATION LEFT EYE | 0/0 | 3/3 | 17/14 | 24/16 | 49/20 |
| -DRIED RED MATERIAL AROUND NOSE | 0/0 | 0/0 | 0/0 | 2/2 | 0/0 |
| -WET CLEAR MATERIAL AROUND NOSE | 0/0 | 1/1 | 0/0 | 6/4 | 1/1 |
| -DILATED PUPIL RIGHT EYE | 0/0 | 0/0 | 1/1 | 1/1 | 1/1 |
| -DILATED PUPIL LEFT EYE | 0/0 | 0/0 | 1/1 | 1/1 | 1/1 |
| UNSCHED OBS (>38,<45 MINS) | | | | | |
| -LACRIMATION RIGHT EYE | 0/0 | 0/0 | 0/0 | 1/1 | 0/0 |
| -LACRIMATION LEFT EYE | 0/0 | 0/0 | 0/0 | 1/1 | 0/0 |
| 1 HOUR POST-DOSING | | | | | |
| -LACRIMATION RIGHT EYE | 1/1 | 0/0 | 22/13 | 39/16 | 60/19 |
| -LACRIMATION LEFT EYE | 1/1 | 0/0 | 21/13 | 35/16 | 59/19 |
| -DRIED RED MATERIAL AROUND NOSE | 0/0 | 0/0 | 0/0 | 0/0 | 2/2 |
| -DILATED PUPIL RIGHT EYE | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |
| -DILATED PUPIL LEFT EYE | 0/0 | 0/0 | 1/1 | 0/0 | 0/0 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

----- F E M A L E -----

| TABLE RANGE: 03-31-08 TO 04-18-08 GROUP: | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| 2 HOUR POST-DOSING | | | | | |
| -LACRIMATION RIGHT EYE | 0/0 | 2/1 | 25/13 | 36/13 | 83/22 |
| -LACRIMATION LEFT EYE | 0/0 | 1/1 | 26/13 | 38/13 | 83/22 |
| ORAL/DENTAL | | | | | |
| TIME OF DOSE | | | | | |
| -SALIVATION PRIOR TO DOSING | 0/0 | 4/1 | 4/4 | 13/7 | 17/9 |
| 0.25 HOUR POST-DOSING | | | | | |
| -WET CLEAR MATERIAL AROUND MOUTH | 10/10 | 54/18 | 80/20 | 73/20 | 109/21 |
| -SALIVATION | 4/1 | 12/6 | 7/5 | 9/4 | 1/1 |
| -WET RED MATERIAL AROUND MOUTH | 0/0 | 2/2 | 1/1 | 5/5 | 2/2 |
| 0.5 HOUR POST-DOSING | | | | | |
| -WET CLEAR MATERIAL AROUND MOUTH | 2/2 | 36/17 | 67/16 | 63/17 | 80/20 |
| -DRIED RED MATERIAL AROUND MOUTH | 0/0 | 2/1 | 2/2 | 2/2 | 1/1 |
| -SALIVATION | 1/1 | 1/1 | 0/0 | 0/0 | 0/0 |
| -WET RED MATERIAL AROUND MOUTH | 0/0 | 2/2 | 0/0 | 0/0 | 0/0 |
| 1 HOUR POST-DOSING | | | | | |
| -WET CLEAR MATERIAL AROUND MOUTH | 1/1 | 6/4 | 9/7 | 11/5 | 32/13 |
| -DRIED RED MATERIAL AROUND MOUTH | 0/0 | 0/0 | 1/1 | 0/0 | 1/1 |
| -SALIVATION | 0/0 | 0/0 | 0/0 | 0/0 | 1/1 |
| 2 HOUR POST-DOSING | | | | | |
| -WET CLEAR MATERIAL AROUND MOUTH | 0/0 | 0/0 | 0/0 | 0/0 | 6/5 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE 4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF BODY WEIGHTS DURING GESTATION [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 0 | | | | | |
| MEAN | 254. | 254. | 252. | 254. | 252. |
| % DIFFERENCE | | 0.0 | -0.8 | 0.0 | -0.8 |
| S.D. | 14.5 | 13.4 | 15.0 | 16.4 | 14.7 |
| S.E. | 3.1 | 2.9 | 3.2 | 3.5 | 3.1 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 6 | | | | | |
| MEAN | 287. | 284. | 288. | 285. | 285. |
| % DIFFERENCE | | -1.0 | 0.3 | -0.7 | -0.7 |
| S.D. | 16.5 | 16.4 | 18.3 | 17.6 | 18.5 |
| S.E. | 3.5 | 3.5 | 3.9 | 3.7 | 3.9 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 7 | | | | | |
| MEAN | 289. | 285. | 287. | 284. | 280. |
| % DIFFERENCE | | -1.4 | -0.7 | -1.7 | -3.1 |
| S.D. | 17.8 | 16.8 | 18.0 | 19.1 | 19.0 |
| S.E. | 3.8 | 3.6 | 3.8 | 4.1 | 4.1 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 8 | | | | | |
| MEAN | 293. | 288. | 288. | 286. | 281. |
| % DIFFERENCE | | -1.7 | -1.7 | -2.4 | -4.1 |
| S.D. | 19.6 | 17.3 | 18.5 | 19.8 | 18.6 |
| S.E. | 4.2 | 3.7 | 4.0 | 4.2 | 4.0 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 9 | | | | | |
| MEAN | 298. | 292. | 292. | 288. | 284. |
| % DIFFERENCE | | -2.0 | -2.0 | -3.4 | -4.7 |
| S.D. | 19.5 | 18.1 | 20.3 | 20.2 | 19.6 |
| S.E. | 4.2 | 3.9 | 4.3 | 4.3 | 4.3 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group

NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 4
A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
SUMMARY OF BODY WEIGHTS DURING GESTATION [G]



| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 10 | | | | | |
| MEAN | 303. | 297. | 296. | 292. | 286. |
| % DIFFERENCE | | -2.0 | -2.3 | -3.6 | -5.6 |
| S.D. | 20.6 | 19.4 | 20.6 | 20.0 | 20.2 |
| S.E. | 4.4 | 4.1 | 4.4 | 4.3 | 4.4 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 11 | | | | | |
| MEAN | 309. | 304. | 302. | 299. | 293. |
| % DIFFERENCE | | -1.6 | -2.3 | -3.2 | -5.2 |
| S.D. | 20.4 | 19.5 | 21.4 | 20.5 | 20.2 |
| S.E. | 4.4 | 4.2 | 4.6 | 4.4 | 4.4 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 12 | | | | | |
| MEAN | 314. | 309. | 308. | 305. | 299. |
| % DIFFERENCE | | -1.6 | -1.9 | -2.9 | -4.8 |
| S.D. | 20.3 | 19.9 | 22.0 | 21.9 | 19.7 |
| S.E. | 4.3 | 4.2 | 4.7 | 4.7 | 4.3 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 13 | | | | | |
| MEAN | 320. | 314. | 314. | 310. | 305. |
| % DIFFERENCE | | -1.9 | -1.9 | -3.1 | -4.7 |
| S.D. | 21.2 | 20.0 | 21.5 | 21.8 | 20.8 |
| S.E. | 4.5 | 4.3 | 4.6 | 4.7 | 4.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 14 | | | | | |
| MEAN | 326. | 321. | 320. | 316. | 310. |
| % DIFFERENCE | | -1.5 | -1.8 | -3.1 | -4.9 |
| S.D. | 21.2 | 21.7 | 21.3 | 21.2 | 21.6 |
| S.E. | 4.5 | 4.6 | 4.5 | 4.5 | 4.7 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 3

SPONSOR:LYONDELLBASELL SUMMARY OF BODY WEIGHTS DURING GESTATION [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 15 | | | | | |
| MEAN | 335. | 329. | 329. | 323. | 318. |
| % DIFFERENCE | | -1.8 | -1.8 | -3.6 | -5.1 |
| S.D. | 22.8 | 22.0 | 21.2 | 23.4 | 22.1 |
| S.E. | 4.9 | 4.7 | 4.5 | 5.0 | 4.8 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 16 | | | | | |
| MEAN | 345. | 341. | 339. | 335. | 329. |
| % DIFFERENCE | | -1.2 | -1.7 | -2.9 | -4.6 |
| S.D. | 22.1 | 23.5 | 22.9 | 23.0 | 23.6 |
| S.E. | 4.7 | 5.0 | 4.9 | 4.9 | 5.2 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 17 | | | | | |
| MEAN | 359. | 354. | 353. | 349. | 341. |
| % DIFFERENCE | | -1.4 | -1.7 | -2.8 | -5.0 |
| S.D. | 23.1 | 24.2 | 23.6 | 24.4 | 23.9 |
| S.E. | 4.9 | 5.2 | 5.0 | 5.2 | 5.2 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 18 | | | | | |
| MEAN | 377. | 371. | 369. | 364. | 357. |
| % DIFFERENCE | | -1.6 | -2.1 | -3.4 | -5.3 |
| S.D. | 24.6 | 27.6 | 23.7 | 25.4 | 24.7 |
| S.E. | 5.3 | 5.9 | 5.1 | 5.4 | 5.4 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 19 | | | | | |
| MEAN | 393. | 388. | 384. | 379. | 372. |
| % DIFFERENCE | | -1.3 | -2.3 | -3.6 | -5.3 |
| S.D. | 26.2 | 29.6 | 25.6 | 25.7 | 26.2 |
| S.E. | 5.6 | 6.3 | 5.5 | 5.5 | 5.7 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group

NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF BODY WEIGHTS DURING GESTATION [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 20 | | | | | |
| MEAN | 408. | 406. | 400. | 395. | 387. |
| % DIFFERENCE | | -0.5 | -2.0 | -3.2 | -5.1 |
| S.D. | 27.1 | 31.7 | 27.4 | 26.7 | 27.2 |
| S.E. | 5.8 | 6.8 | 5.8 | 5.7 | 5.9 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group

NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PGBWSUv5.09
05/12/2008

TABLE 5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL SUMMARY OF BODY WEIGHT CHANGES DURING GESTATION [G]

| GROUP: | | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|---|
| DAY 0- 6 | | | | | | |
| | MEAN | 33. | 30. | 36. | 31. | 33. |
| | S.D. | 5.4 | 7.1 | 6.9 | 6.9 | 8.2 |
| | S.E. | 1.1 | 1.5 | 1.5 | 1.5 | 1.7 |
| | N | 22 | 22 | 22 | 22 | 22 |
| DAY 6- 7 | | | | | | |
| | MEAN | 2. | 1. | -2.* | -1.* | -5.** |
| | S.D. | 3.7 | 3.4 | 3.4 | 4.0 | 5.4 |
| | S.E. | 0.8 | 0.7 | 0.7 | 0.9 | 1.2 |
| | N | 22 | 22 | 22 | 22 | 22 |
| DAY 7- 8 | | | | | | |
| | MEAN | 4. | 3. | 1.* | 1.* | 1.** |
| | S.D. | 3.5 | 2.9 | 4.0 | 3.9 | 4.4 |
| | S.E. | 0.7 | 0.6 | 0.9 | 0.8 | 0.9 |
| | N | 22 | 22 | 22 | 22 | 22 |
| DAY 8- 9 | | | | | | |
| | MEAN | 4. | 4. | 4. | 3. | 2. |
| | S.D. | 3.7 | 3.2 | 4.2 | 4.2 | 3.7 |
| | S.E. | 0.8 | 0.7 | 0.9 | 0.9 | 0.8 |
| | N | 22 | 22 | 22 | 22 | 21 |
| DAY 9- 10 | | | | | | |
| | MEAN | 5. | 5. | 4. | 4. | 3. |
| | S.D. | 2.7 | 2.8 | 2.5 | 4.4 | 7.5 |
| | S.E. | 0.6 | 0.6 | 0.5 | 0.9 | 1.6 |
| | N | 22 | 22 | 22 | 22 | 21 |

* = Significantly different from the control group at 0.05 using Dunnett's test
** = Significantly different from the control group at 0.01 using Dunnett's test
MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF BODY WEIGHT CHANGES DURING GESTATION [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 10- 11 | | | | | |
| MEAN | 7. | 6. | 6. | 7. | 7. |
| S.D. | 3.5 | 3.6 | 2.4 | 3.1 | 3.9 |
| S.E. | 0.7 | 0.8 | 0.5 | 0.7 | 0.8 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 11- 12 | | | | | |
| MEAN | 5. | 6. | 6. | 5. | 6. |
| S.D. | 3.2 | 3.3 | 2.7 | 3.1 | 4.7 |
| S.E. | 0.7 | 0.7 | 0.6 | 0.7 | 1.0 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 12- 13 | | | | | |
| MEAN | 6. | 4. | 6. | 5. | 6. |
| S.D. | 3.4 | 2.9 | 3.5 | 3.9 | 3.3 |
| S.E. | 0.7 | 0.6 | 0.7 | 0.8 | 0.7 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 13- 14 | | | | | |
| MEAN | 6. | 7. | 5. | 6. | 6. |
| S.D. | 3.9 | 3.4 | 3.1 | 3.0 | 2.7 |
| S.E. | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 14- 15 | | | | | |
| MEAN | 9. | 9. | 9. | 7. | 8. |
| S.D. | 3.4 | 3.2 | 2.6 | 3.9 | 2.9 |
| S.E. | 0.7 | 0.7 | 0.5 | 0.8 | 0.6 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group
MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF BODY WEIGHT CHANGES DURING GESTATION [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 15- 16 | | | | | |
| MEAN | 10. | 11. | 10. | 12. | 11. |
| S.D. | 3.6 | 4.5 | 4.4 | 3.8 | 4.5 |
| S.E. | 0.8 | 1.0 | 0.9 | 0.8 | 1.0 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 16- 17 | | | | | |
| MEAN | 14. | 13. | 14. | 14. | 13. |
| S.D. | 3.7 | 5.7 | 5.0 | 3.5 | 3.3 |
| S.E. | 0.8 | 1.2 | 1.1 | 0.7 | 0.7 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 17- 18 | | | | | |
| MEAN | 18. | 18. | 16. | 16. | 15. |
| S.D. | 4.5 | 5.7 | 3.6 | 3.0 | 4.3 |
| S.E. | 1.0 | 1.2 | 0.8 | 0.6 | 0.9 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 18- 19 | | | | | |
| MEAN | 16. | 17. | 15. | 15. | 16. |
| S.D. | 5.2 | 3.9 | 3.7 | 4.7 | 3.1 |
| S.E. | 1.1 | 0.8 | 0.8 | 1.0 | 0.7 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 19- 20 | | | | | |
| MEAN | 15. | 18. | 16. | 16. | 15. |
| S.D. | 3.9 | 4.0 | 4.1 | 3.2 | 4.8 |
| S.E. | 0.8 | 0.8 | 0.9 | 0.7 | 1.1 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group
MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF BODY WEIGHT CHANGES DURING GESTATION [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 6- 9 | | | | | |
| MEAN | 11. | 8. | 3.** | 3.** | -2.** |
| S.D. | 4.2 | 5.4 | 5.4 | 6.2 | 5.7 |
| S.E. | 0.9 | 1.2 | 1.2 | 1.3 | 1.3 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 9- 12 | | | | | |
| MEAN | 17. | 17. | 16. | 16. | 15. |
| S.D. | 3.5 | 3.3 | 3.8 | 4.7 | 6.6 |
| S.E. | 0.7 | 0.7 | 0.8 | 1.0 | 1.4 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 12- 15 | | | | | |
| MEAN | 21. | 20. | 20. | 18. | 19. |
| S.D. | 5.2 | 5.0 | 4.2 | 4.1 | 4.6 |
| S.E. | 1.1 | 1.1 | 0.9 | 0.9 | 1.0 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 15- 20 | | | | | |
| MEAN | 73. | 77. | 71. | 72. | 69. |
| S.D. | 10.0 | 11.8 | 8.7 | 6.5 | 9.6 |
| S.E. | 2.1 | 2.5 | 1.9 | 1.4 | 2.1 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 6- 20 | | | | | |
| MEAN | 121. | 122. | 112. | 110. | 102.** |
| S.D. | 14.7 | 19.6 | 12.8 | 13.9 | 17.7 |
| S.E. | 3.1 | 4.2 | 2.7 | 3.0 | 3.9 |
| N | 22 | 22 | 22 | 22 | 21 |

** = Significantly different from the control group at 0.01 using Dunnett's test
MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN



PGBWSUv5.09
05/12/2008

TABLE 6

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL SUMMARY OF GRAVID UTERINE WTS. AND NET BODY WT. CHANGES [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| INITIAL BODY WT. | | | | | |
| MEAN | 254. | 254. | 252. | 254. | 252. |
| S.D. | 14.5 | 13.4 | 15.0 | 16.4 | 15.0 |
| S.E. | 3.1 | 2.9 | 3.2 | 3.5 | 3.3 |
| N | 22 | 22 | 22 | 22 | 21 |
| TERMINAL BODY WT. | | | | | |
| MEAN | 408. | 406. | 400. | 395. | 387. |
| S.D. | 27.1 | 31.7 | 27.4 | 26.7 | 27.2 |
| S.E. | 5.8 | 6.8 | 5.8 | 5.7 | 5.9 |
| N | 22 | 22 | 22 | 22 | 21 |
| GRAVID UTERINE WT. | | | | | |
| MEAN | 84.3 | 87.3 | 83.9 | 83.9 | 83.8 |
| S.D. | 12.64 | 12.33 | 9.32 | 9.98 | 11.01 |
| S.E. | 2.69 | 2.69 | 2.03 | 2.13 | 2.40 |
| N | 22 | 21 | 21 | 22 | 21 |
| NET BODY WT. | | | | | |
| MEAN | 323.7 | 321.2 | 314.9 | 311.1 | 303.6* |
| S.D. | 20.72 | 23.06 | 23.10 | 21.65 | 21.52 |
| S.E. | 4.42 | 5.03 | 5.04 | 4.62 | 4.70 |
| N | 22 | 21 | 21 | 22 | 21 |
| NET BODY WT. CHANGE | | | | | |
| MEAN | 69.8 | 65.9 | 64.3 | 56.9* | 51.3** |
| S.D. | 11.04 | 17.01 | 14.69 | 13.11 | 13.42 |
| S.E. | 2.35 | 3.71 | 3.21 | 2.79 | 2.93 |
| N | 22 | 21 | 21 | 22 | 21 |

* = Significantly different from the control group at 0.05 using Dunnett's test
** = Significantly different from the control group at 0.01 using Dunnett's test

PUTSUv5.06
05/23/2008

TABLE 7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 0- 6 | | | | | |
| MEAN | 23. | 22. | 23. | 23. | 24. |
| S.D. | 2.0 | 2.1 | 1.9 | 1.8 | 2.3 |
| S.E. | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 |
| N | 22 | 21 | 22 | 22 | 20 |
| DAY 6- 7 | | | | | |
| MEAN | 20. | 20. | 18. | 18.* | 16.** |
| S.D. | 3.0 | 2.7 | 2.2 | 2.5 | 3.2 |
| S.E. | 0.6 | 0.6 | 0.5 | 0.5 | 0.7 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 7- 8 | | | | | |
| MEAN | 22. | 19.* | 20. | 19.** | 16.** |
| S.D. | 2.9 | 2.8 | 3.1 | 3.2 | 3.0 |
| S.E. | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 8- 9 | | | | | |
| MEAN | 21. | 20. | 19. | 19.* | 17.** |
| S.D. | 2.7 | 2.8 | 2.9 | 3.0 | 2.3 |
| S.E. | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 9- 10 | | | | | |
| MEAN | 22. | 20. | 20. | 19. | 18.** |
| S.D. | 3.0 | 3.2 | 2.8 | 2.7 | 2.9 |
| S.E. | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 |
| N | 22 | 22 | 22 | 22 | 21 |

* = Significantly different from the control group at 0.05 using Dunnett's test
** = Significantly different from the control group at 0.01 using Dunnett's test
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 10- 11 | | | | | |
| MEAN | 22. | 21. | 21. | 21. | 19.** |
| S.D. | 2.9 | 2.4 | 2.3 | 2.7 | 3.5 |
| S.E. | 0.6 | 0.5 | 0.5 | 0.6 | 0.8 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 11- 12 | | | | | |
| MEAN | 23. | 22. | 22. | 21. | 21. |
| S.D. | 2.3 | 2.9 | 3.2 | 3.3 | 2.2 |
| S.E. | 0.5 | 0.6 | 0.7 | 0.7 | 0.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 12- 13 | | | | | |
| MEAN | 23. | 22. | 23. | 21. | 22. |
| S.D. | 2.9 | 3.3 | 3.3 | 3.3 | 2.6 |
| S.E. | 0.6 | 0.7 | 0.7 | 0.7 | 0.6 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 13- 14 | | | | | |
| MEAN | 22. | 21. | 22. | 21. | 21. |
| S.D. | 2.8 | 3.5 | 2.3 | 2.9 | 2.3 |
| S.E. | 0.6 | 0.7 | 0.5 | 0.6 | 0.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 14- 15 | | | | | |
| MEAN | 24. | 23. | 23. | 22. | 22. |
| S.D. | 3.0 | 3.1 | 2.6 | 2.9 | 2.4 |
| S.E. | 0.6 | 0.7 | 0.5 | 0.6 | 0.5 |
| N | 22 | 22 | 22 | 22 | 21 |

** = Significantly different from the control group at 0.01 using Dunnett's test
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 15- 16 | | | | | |
| MEAN | 23. | 24. | 24. | 24. | 23. |
| S.D. | 3.7 | 3.1 | 2.7 | 3.4 | 3.5 |
| S.E. | 0.8 | 0.7 | 0.6 | 0.7 | 0.8 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 16- 17 | | | | | |
| MEAN | 25. | 24. | 24. | 25. | 24. |
| S.D. | 2.7 | 3.5 | 3.8 | 3.6 | 2.6 |
| S.E. | 0.6 | 0.7 | 0.8 | 0.8 | 0.6 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 17- 18 | | | | | |
| MEAN | 26. | 24. | 25. | 25. | 25. |
| S.D. | 2.5 | 3.4 | 3.4 | 3.4 | 3.3 |
| S.E. | 0.5 | 0.7 | 0.7 | 0.7 | 0.7 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 18- 19 | | | | | |
| MEAN | 26. | 25. | 25. | 24. | 24. |
| S.D. | 2.8 | 3.7 | 2.9 | 2.8 | 2.9 |
| S.E. | 0.6 | 0.8 | 0.6 | 0.6 | 0.6 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 19- 20 | | | | | |
| MEAN | 24. | 24. | 23. | 23. | 23. |
| S.D. | 3.1 | 2.8 | 2.8 | 3.1 | 3.1 |
| S.E. | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 6- 9 | | | | | |
| MEAN | 21. | 20. | 19.* | 18.** | 17.** |
| S.D. | 2.4 | 2.3 | 2.1 | 2.5 | 2.1 |
| S.E. | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 9- 12 | | | | | |
| MEAN | 22. | 21. | 21. | 21. | 19.** |
| S.D. | 2.4 | 2.4 | 2.6 | 2.4 | 2.1 |
| S.E. | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 12- 15 | | | | | |
| MEAN | 23. | 22. | 22. | 21. | 22. |
| S.D. | 2.6 | 2.9 | 2.0 | 2.4 | 1.9 |
| S.E. | 0.5 | 0.6 | 0.4 | 0.5 | 0.4 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 15- 20 | | | | | |
| MEAN | 25. | 25. | 24. | 24. | 24. |
| S.D. | 2.1 | 2.7 | 2.3 | 2.5 | 2.4 |
| S.E. | 0.4 | 0.6 | 0.5 | 0.5 | 0.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 6- 20 | | | | | |
| MEAN | 23. | 22. | 22. | 22. | 21.** |
| S.D. | 2.1 | 2.5 | 2.1 | 2.0 | 1.6 |
| S.E. | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 |
| N | 22 | 22 | 22 | 22 | 21 |

* = Significantly different from the control group at 0.05 using Dunnett's test
** = Significantly different from the control group at 0.01 using Dunnett's test
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PGFWSUv5.14
05/12/2008

TABLE 8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 0- 6 | | | | | |
| MEAN | 84. | 82. | 85. | 83. | 88. |
| S.D. | 4.6 | 5.8 | 5.4 | 4.2 | 6.2 |
| S.E. | 1.0 | 1.3 | 1.1 | 0.9 | 1.4 |
| N | 22 | 21 | 22 | 22 | 20 |
| DAY 6- 7 | | | | | |
| MEAN | 70. | 69. | 64.* | 63.* | 56.** |
| S.D. | 8.9 | 6.8 | 6.1 | 7.1 | 10.6 |
| S.E. | 1.9 | 1.5 | 1.3 | 1.5 | 2.2 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 7- 8 | | | | | |
| MEAN | 76. | 67.** | 70. | 65.** | 58.** |
| S.D. | 6.8 | 7.4 | 9.9 | 9.7 | 8.8 |
| S.E. | 1.4 | 1.6 | 2.1 | 2.1 | 1.9 |
| N | 22 | 22 | 22 | 22 | 22 |
| DAY 8- 9 | | | | | |
| MEAN | 71. | 68. | 67. | 65.* | 60.** |
| S.D. | 8.0 | 7.5 | 6.9 | 9.3 | 6.3 |
| S.E. | 1.7 | 1.6 | 1.5 | 2.0 | 1.4 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 9- 10 | | | | | |
| MEAN | 71. | 68. | 67. | 67. | 62.** |
| S.D. | 7.4 | 8.1 | 7.3 | 7.6 | 10.0 |
| S.E. | 1.6 | 1.7 | 1.5 | 1.6 | 2.2 |
| N | 22 | 22 | 22 | 22 | 21 |

* = Significantly different from the control group at 0.05 using Dunnett's test
** = Significantly different from the control group at 0.01 using Dunnett's test
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 10- 11 | | | | | |
| MEAN | 72. | 69. | 70. | 72. | 67. |
| S.D. | 7.4 | 7.1 | 4.9 | 6.9 | 12.3 |
| S.E. | 1.6 | 1.5 | 1.0 | 1.5 | 2.7 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 11- 12 | | | | | |
| MEAN | 74. | 71. | 72. | 70. | 70. |
| S.D. | 5.5 | 6.1 | 8.6 | 8.1 | 6.1 |
| S.E. | 1.2 | 1.3 | 1.8 | 1.7 | 1.3 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 12- 13 | | | | | |
| MEAN | 73. | 69. | 74. | 70. | 72. |
| S.D. | 7.2 | 8.6 | 8.0 | 9.1 | 6.9 |
| S.E. | 1.5 | 1.8 | 1.7 | 1.9 | 1.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 13- 14 | | | | | |
| MEAN | 70. | 67. | 68. | 68. | 69. |
| S.D. | 7.2 | 8.9 | 6.6 | 8.4 | 7.9 |
| S.E. | 1.5 | 1.9 | 1.4 | 1.8 | 1.7 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 14- 15 | | | | | |
| MEAN | 72. | 70. | 71. | 68. | 69. |
| S.D. | 6.6 | 6.6 | 6.2 | 7.5 | 6.9 |
| S.E. | 1.4 | 1.4 | 1.3 | 1.6 | 1.5 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group

NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 15- 16 | | | | | |
| MEAN | 69. | 72. | 70. | 72. | 70. |
| S.D. | 10.6 | 7.1 | 7.3 | 9.3 | 10.3 |
| S.E. | 2.3 | 1.5 | 1.6 | 2.0 | 2.3 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 16- 17 | | | | | |
| MEAN | 71. | 70. | 71. | 72. | 71. |
| S.D. | 5.9 | 7.2 | 9.7 | 7.4 | 7.3 |
| S.E. | 1.3 | 1.5 | 2.1 | 1.6 | 1.6 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 17- 18 | | | | | |
| MEAN | 71. | 67. | 68. | 70. | 71. |
| S.D. | 6.1 | 6.3 | 8.9 | 7.6 | 9.8 |
| S.E. | 1.3 | 1.3 | 1.9 | 1.6 | 2.1 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 18- 19 | | | | | |
| MEAN | 67. | 66. | 65. | 64. | 67. |
| S.D. | 5.9 | 6.8 | 5.6 | 5.4 | 7.1 |
| S.E. | 1.3 | 1.5 | 1.2 | 1.2 | 1.6 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 19- 20 | | | | | |
| MEAN | 59. | 60. | 59. | 60. | 60. |
| S.D. | 7.4 | 5.5 | 5.2 | 7.3 | 8.4 |
| S.E. | 1.6 | 1.2 | 1.1 | 1.6 | 1.8 |
| N | 22 | 22 | 22 | 22 | 21 |

None significantly different from control group
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| DAY 6- 9 | | | | | |
| MEAN | 72. | 68. | 67.* | 65.** | 58.** |
| S.D. | 6.1 | 5.0 | 5.0 | 7.3 | 5.3 |
| S.E. | 1.3 | 1.1 | 1.1 | 1.5 | 1.2 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 9- 12 | | | | | |
| MEAN | 72. | 70. | 70. | 70. | 66.** |
| S.D. | 5.3 | 4.6 | 5.8 | 5.9 | 6.6 |
| S.E. | 1.1 | 1.0 | 1.2 | 1.3 | 1.4 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 12- 15 | | | | | |
| MEAN | 72. | 69. | 71. | 68. | 70. |
| S.D. | 5.7 | 6.4 | 3.9 | 5.9 | 5.5 |
| S.E. | 1.2 | 1.4 | 0.8 | 1.3 | 1.2 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 15- 20 | | | | | |
| MEAN | 67. | 67. | 66. | 67. | 68. |
| S.D. | 4.3 | 4.2 | 4.6 | 4.7 | 6.8 |
| S.E. | 0.9 | 0.9 | 1.0 | 1.0 | 1.5 |
| N | 22 | 22 | 22 | 22 | 21 |
| DAY 6- 20 | | | | | |
| MEAN | 70. | 68. | 68. | 67. | 66. |
| S.D. | 3.9 | 4.4 | 4.2 | 3.8 | 4.4 |
| S.E. | 0.8 | 0.9 | 0.9 | 0.8 | 1.0 |
| N | 22 | 22 | 22 | 22 | 21 |

* = Significantly different from the control group at 0.05 using Dunnett's test
** = Significantly different from the control group at 0.01 using Dunnett's test
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PGFWSUv5.14
05/12/2008

TABLE 9

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF MATERNAL MACROSCOPIC FINDINGS

| GROUP : | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| NUMBER EXAMINED | 22 | 22 | 22 | 22 | 22 |
| NO SIGNIFICANT CHANGES OBSERVED | 20 | 20 | 22 | 19 | 16 |
| URETERS: DISTENDED | 0 | 0 | 0 | 0 | 1 |
| KIDNEYS: SMALL | 0 | 0 | 0 | 0 | 1 |
| KIDNEYS: DILATED PELVIS | 0 | 0 | 0 | 0 | 1 |
| DIED GESTATION DAY 8 | 0 | 0 | 0 | 0 | 1 |
| LIVER: AREA(S) WHITE | 0 | 0 | 0 | 0 | 1 |
| PLACENTAE: ENLARGED | 0 | 0 | 0 | 1 | 0 |
| PLACENTAE: DISCOLORATION, GREEN | 0 | 0 | 0 | 1 | 0 |
| THYMUS: AREA(S), DARK RED | 1 | 0 | 0 | 1 | 0 |
| UTERUS: CONTENTS, DARK RED | 0 | 2 | 0 | 1 | 2 |
| PLACENTAE: FUSED | 0 | 0 | 0 | 0 | 1 |
| THYMUS: SMALL | 0 | 0 | 0 | 0 | 1 |
| THYMUS: ENLARGED | 1 | 0 | 0 | 0 | 0 |

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE 10

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF ORGAN WEIGHTS [G]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| | ----- F E M A L E ----- | | | | |
| BRAIN | | | | | |
| MEAN | 1.90 | 1.89 | 1.89 | 1.87 | 1.86 |
| % DIFFERENCE | | -0.5 | -0.5 | -1.6 | -2.1 |
| S.D. | 0.076 | 0.124 | 0.043 | 0.085 | 0.094 |
| S.E. | 0.016 | 0.026 | 0.009 | 0.018 | 0.021 |
| N | 22 | 22 | 22 | 22 | 21 |
| LIVER | | | | | |
| MEAN | 17.18 | 17.38 | 17.53 | 17.55 | 18.56 |
| % DIFFERENCE | | 1.2 | 2.0 | 2.2 | 8.0 |
| S.D. | 1.411 | 1.858 | 1.889 | 1.564 | 1.649 |
| S.E. | 0.301 | 0.396 | 0.403 | 0.333 | 0.360 |
| N | 22 | 22 | 22 | 22 | 21 |
| KIDNEYS | | | | | |
| MEAN | 2.18 | 2.26 | 2.29 | 2.32 | 2.34 |
| % DIFFERENCE | | 3.7 | 5.0 | 6.4 | 7.3 |
| S.D. | 0.178 | 0.265 | 0.269 | 0.190 | 0.142 |
| S.E. | 0.038 | 0.056 | 0.057 | 0.040 | 0.031 |
| N | 22 | 22 | 22 | 22 | 21 |
| THYMUS | | | | | |
| MEAN | 0.3033 | 0.2675 | 0.2759 | 0.2629 | 0.2021** |
| % DIFFERENCE | | -11.8 | -9.0 | -13.3 | -33.4 |
| S.D. | 0.09439 | 0.07060 | 0.10053 | 0.07243 | 0.07023 |
| S.E. | 0.02012 | 0.01505 | 0.02143 | 0.01544 | 0.01533 |
| N | 22 | 22 | 22 | 22 | 21 |

** = Significantly different from the control group at 0.01 using Dunnett's test

NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| | ----- F E M A L E ----- | | | | |
| ADRENAL GLANDS | | | | | |
| MEAN | 0.0751 | 0.0825 | 0.0795 | 0.0809 | 0.0934** |
| % DIFFERENCE | | 9.9 | 5.9 | 7.7 | 24.4 |
| S.D. | 0.01051 | 0.01214 | 0.01050 | 0.01453 | 0.01208 |
| S.E. | 0.00224 | 0.00259 | 0.00224 | 0.00310 | 0.00264 |
| N | 22 | 22 | 22 | 22 | 21 |

** = Significantly different from the control group at 0.01 using Dunnett's test
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 11

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF ORGAN WTS. RELATIVE TO BRAIN WTS. [G/100 G]

| GROUP: | | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|---|
| | | ----- F E M A L E ----- | | | | |
| BRAIN | | | | | | |
| | MEAN | 1.90 | 1.89 | 1.89 | 1.87 | 1.86 |
| | S.D. | 0.076 | 0.124 | 0.043 | 0.085 | 0.094 |
| | S.E. | 0.016 | 0.026 | 0.009 | 0.018 | 0.021 |
| | N | 22 | 22 | 22 | 22 | 21 |
| LIVER | | | | | | |
| | MEAN | 907.542 | 923.990 | 928.954 | 936.473 | 999.649** |
| | S.D. | 88.0645 | 111.3258 | 96.7866 | 72.7364 | 104.1817 |
| | S.E. | 18.7754 | 23.7347 | 20.6350 | 15.5074 | 22.7343 |
| | N | 22 | 22 | 22 | 22 | 21 |
| KIDNEYS | | | | | | |
| | MEAN | 115.105 | 119.981 | 121.312 | 123.556 | 125.679* |
| | S.D. | 10.6748 | 15.4512 | 14.2055 | 8.7183 | 8.1098 |
| | S.E. | 2.2759 | 3.2942 | 3.0286 | 1.8587 | 1.7697 |
| | N | 22 | 22 | 22 | 22 | 21 |
| THYMUS | | | | | | |
| | MEAN | 16.083 | 14.193 | 14.646 | 14.030 | 10.914** |
| | S.D. | 5.2674 | 3.6763 | 5.4198 | 3.8070 | 3.9668 |
| | S.E. | 1.1230 | 0.7838 | 1.1555 | 0.8117 | 0.8656 |
| | N | 22 | 22 | 22 | 22 | 21 |
| ADRENAL GLANDS | | | | | | |
| | MEAN | 3.962 | 4.384 | 4.211 | 4.313 | 5.023** |
| | S.D. | 0.5477 | 0.6752 | 0.5533 | 0.7362 | 0.6575 |
| | S.E. | 0.1168 | 0.1439 | 0.1180 | 0.1570 | 0.1435 |
| | N | 22 | 22 | 22 | 22 | 21 |

* = Significantly different from the control group at 0.05 using Dunnett's test
** = Significantly different from the control group at 0.01 using Dunnett's test
NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

POFBSRv5.04
05/12/2008

TABLE 12

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL SUMMARY OF FETAL DATA AT SCHEDULED NECROPSY

| GROUP | SEX M | SEX F | VIABLE FETUSES | DEAD FETUSES | RESORPTIONS EARLY | RESORPTIONS LATE | POST IMPLANTATION LOSS | IMPLANTATION SITES | CORPORA LUTEA | PRE IMPLANTATION LOSS | FETAL WEIGHTS IN GRAMS | NO. OF GRAVID FEMALES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 TOTAL | 169 | 148 | 317 | 0 | 23 | 1 | 24 | 341 | 368 | 27 | NA | 22 |
| MEAN | 7.7 | 6.7 | 14.4 | 0.0 | 1.0 | 0.0 | 1.1 | 15.5 | 16.7 | 1.2 | 3.8 | |
| S.D. | 2.51 | 1.75 | 2.22 | 0.00 | 1.09 | 0.21 | 1.11 | 1.97 | 2.23 | 1.41 | 0.20 | |
| S.E. | 0.54 | 0.37 | 0.47 | 0.00 | 0.23 | 0.05 | 0.24 | 0.42 | 0.48 | 0.30 | 0.04 | |
| 2 TOTAL | 163 | 177 | 340 | 0 | 12 | 0 | 12 | 352 | 378 | 26 | NA | 22 |
| MEAN | 7.4 | 8.0 | 15.5 | 0.0 | 0.5 | 0.0 | 0.5 | 16.0 | 17.2 | 1.2 | 3.6* | |
| S.D. | 2.32 | 2.03 | 2.18 | 0.00 | 1.50 | 0.00 | 1.50 | 1.83 | 1.99 | 1.59 | 0.34 | |
| S.E. | 0.50 | 0.43 | 0.46 | 0.00 | 0.32 | 0.00 | 0.32 | 0.39 | 0.42 | 0.34 | 0.07 | |
| 3 TOTAL | 173 | 161 | 334 | 0 | 9 | 0 | 9 | 343 | 362 | 19 | NA | 22 |
| MEAN | 7.9 | 7.3 | 15.2 | 0.0 | 0.4 | 0.0 | 0.4 | 15.6 | 16.5 | 0.9 | 3.6* | |
| S.D. | 2.64 | 2.15 | 2.04 | 0.00 | 0.50 | 0.00 | 0.50 | 1.97 | 2.02 | 0.71 | 0.18 | |
| S.E. | 0.56 | 0.46 | 0.43 | 0.00 | 0.11 | 0.00 | 0.11 | 0.42 | 0.43 | 0.15 | 0.04 | |
| 4 TOTAL | 179 | 159 | 338 | 0 | 20 | 0 | 20 | 358 | 396 | 38 | NA | 22 |
| MEAN | 8.1 | 7.2 | 15.4 | 0.0 | 0.9 | 0.0 | 0.9 | 16.3 | 18.0 | 1.7 | 3.5** | |
| S.D. | 1.70 | 2.02 | 1.73 | 0.00 | 0.92 | 0.00 | 0.92 | 1.55 | 2.18 | 2.10 | 0.25 | |
| S.E. | 0.36 | 0.43 | 0.37 | 0.00 | 0.20 | 0.00 | 0.20 | 0.33 | 0.47 | 0.45 | 0.05 | |
| 5 TOTAL | 161 | 172 | 333 | 0 | 9 | 2 | 11 | 344 | 373 | 29 | NA | 21 |
| MEAN | 7.7 | 8.2 | 15.9 | 0.0 | 0.4 | 0.1 | 0.5 | 16.4 | 17.8 | 1.4 | 3.4** | |
| S.D. | 2.42 | 1.69 | 2.01 | 0.00 | 0.51 | 0.30 | 0.51 | 1.94 | 3.10 | 2.62 | 0.21 | |
| S.E. | 0.53 | 0.37 | 0.44 | 0.00 | 0.11 | 0.07 | 0.11 | 0.42 | 0.68 | 0.57 | 0.05 | |

* = Significantly different from the control group at 0.05
** = Significantly different from the control group at 0.01
NA = NOT APPLICABLE
MEAN NUMBER OF VIABLE FETUSES, MEAN NUMBER OF IMPLANTATION SITES, MEAN NUMBER OF CORPORA LUTEA, FETAL WEIGHTS COMPARED USING DUNNETT'S TEST

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE 13

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL SUMMARY OF FETAL DATA AT SCHEDULED NECROPSY [% PER LITTER]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| CORPORA LUTEA | | | | | |
| MEAN | 16.7 | 17.2 | 16.5 | 18.0 | 17.8 |
| S.D. | 2.23 | 1.99 | 2.02 | 2.18 | 3.10 |
| S.E. | 0.48 | 0.42 | 0.43 | 0.47 | 0.68 |
| N | 22 | 22 | 22 | 22 | 21 |
| IMPLANTATION SITES | | | | | |
| MEAN | 15.5 | 16.0 | 15.6 | 16.3 | 16.4 |
| S.D. | 1.97 | 1.83 | 1.97 | 1.55 | 1.94 |
| S.E. | 0.42 | 0.39 | 0.42 | 0.33 | 0.42 |
| N | 22 | 22 | 22 | 22 | 21 |
| VIABLE FETUSES (%) | | | | | |
| MEAN | 92.9 | 96.7 | 97.3 | 94.4 | 96.8 |
| S.D. | 7.63 | 8.46 | 3.31 | 5.72 | 3.20 |
| S.E. | 1.63 | 1.80 | 0.71 | 1.22 | 0.70 |
| N | 22 | 22 | 22 | 22 | 21 |
| DEAD FETUSES (%) | | | | | |
| MEAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| S.D. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| S.E. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| N | 22 | 22 | 22 | 22 | 21 |
| EARLY RESORPTIONS (%) | | | | | |
| MEAN | 6.8 | 3.3 | 2.7 | 5.6 | 2.6 |
| S.D. | 7.51 | 8.46 | 3.32 | 5.72 | 3.06 |
| S.E. | 1.60 | 1.80 | 0.71 | 1.22 | 0.67 |
| N | 22 | 22 | 22 | 22 | 21 |

PROPORTIONAL (%) DATA COMPARED USING DUNN'S TEST
CORPORA LUTEA AND IMPLANTATION SITES COMPARED USING DUNNETT'S TEST
MODIFIED STATISTICS USED. * INDICATES PARAMETRIC ANALYSIS AND + INDICATES NON-PARAMETRIC ANALYSIS.
None significantly different from control group

TABLE 13

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF FETAL DATA AT SCHEDULED NECROPSY [% PER LITTER]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| LATE RESORPTIONS (%) | | | | | |
| MEAN | 0.3 | 0.0 | 0.0 | 0.0 | 0.7 |
| S.D. | 1.43 | 0.00 | 0.00 | 0.00 | 2.17 |
| S.E. | 0.30 | 0.00 | 0.00 | 0.00 | 0.47 |
| N | 22 | 22 | 22 | 22 | 21 |
| TOTAL RESORPTIONS (%) | | | | | |
| MEAN | 7.1 | 3.3 | 2.7 | 5.6 | 3.3 |
| S.D. | 7.64 | 8.46 | 3.32 | 5.72 | 3.22 |
| S.E. | 1.63 | 1.80 | 0.71 | 1.22 | 0.70 |
| N | 22 | 22 | 22 | 22 | 21 |
| PRE-IMPLANTATION LOSS (%) | | | | | |
| MEAN | 7.0 | 6.5 | 5.3 | 8.9 | 6.6 |
| S.D. | 7.52 | 8.08 | 4.52 | 9.39 | 9.91 |
| S.E. | 1.60 | 1.72 | 0.96 | 2.00 | 2.16 |
| N | 22 | 22 | 22 | 22 | 21 |
| POST-IMPLANTATION LOSS (%) | | | | | |
| MEAN | 7.1 | 3.3 | 2.7 | 5.6 | 3.3 |
| S.D. | 7.64 | 8.46 | 3.32 | 5.72 | 3.22 |
| S.E. | 1.63 | 1.80 | 0.71 | 1.22 | 0.70 |
| N | 22 | 22 | 22 | 22 | 21 |
| MALES (%) | | | | | |
| MEAN | 52.7 | 47.6 | 51.3 | 53.3 | 47.8 |
| S.D. | 12.88 | 12.60 | 13.88 | 11.23 | 11.99 |
| S.E. | 2.75 | 2.69 | 2.96 | 2.39 | 2.62 |
| N | 22 | 22 | 22 | 22 | 21 |

PROPORTIONAL (%) DATA COMPARED USING DUNN'S TEST
MODIFIED STATISTICS USED. * INDICATES PARAMETRIC ANALYSIS AND + INDICATES NON-PARAMETRIC ANALYSIS.
None significantly different from control group

TABLE 13

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL SUMMARY OF FETAL DATA AT SCHEDULED NECROPSY [% PER LITTER]

| GROUP: | 0 MG/KG/DAY | 400 MG/KG/DAY | 800 MG/KG/DAY | 1000 MG/KG/DAY | 1600 MG/KG/DAY |
|---|---|---|---|---|---|
| FEMALES (%) | | | | | |
| MEAN | 47.3 | 52.4 | 48.7 | 46.7 | 52.2 |
| S.D. | 12.88 | 12.60 | 13.88 | 11.23 | 11.99 |
| S.E. | 2.75 | 2.69 | 2.96 | 2.39 | 2.62 |
| N | 22 | 22 | 22 | 22 | 21 |
| MALE FETAL WEIGHTS (g) | | | | | |
| MEAN | 3.9 | 3.7* | 3.7* | 3.6** | 3.5** |
| % DIFFERENCE | | -5.1 | -5.1 | -7.7 | -10.3 |
| S.D. | 0.24 | 0.34 | 0.19 | 0.23 | 0.20 |
| S.E. | 0.05 | 0.07 | 0.04 | 0.05 | 0.04 |
| N | 22 | 22 | 21 | 22 | 21 |
| FEMALE FETAL WEIGHTS (g) | | | | | |
| MEAN | 3.7 | 3.5 | 3.5 | 3.4** | 3.3** |
| % DIFFERENCE | | -5.4 | -5.4 | -8.1 | -10.8 |
| S.D. | 0.22 | 0.35 | 0.19 | 0.28 | 0.23 |
| S.E. | 0.05 | 0.07 | 0.04 | 0.06 | 0.05 |
| N | 22 | 22 | 21 | 22 | 21 |
| COMBINED FETAL WEIGHTS (g) | | | | | |
| MEAN | 3.8 | 3.6* | 3.6* | 3.5** | 3.4** |
| % DIFFERENCE | | -5.3 | -5.3 | -7.9 | -10.5 |
| S.D. | 0.20 | 0.34 | 0.18 | 0.25 | 0.21 |
| S.E. | 0.04 | 0.07 | 0.04 | 0.05 | 0.05 |
| N | 22 | 22 | 21 | 22 | 21 |

PROPORTIONAL (%) DATA COMPARED USING DUNN'S TEST
FETAL WEIGHTS COMPARED USING DUNNETT'S TEST
MODIFIED STATISTICS USED. * INDICATES PARAMETRIC ANALYSIS AND + INDICATES NON-PARAMETRIC ANALYSIS.
* = Significantly different from the control group at 0.05
** = Significantly different from the control group at 0.01

PLPSUv5.09
05/23/2008
R:05/28/2008

# APPENDIX A

Individual Animal Data

TABLE A1 (DAILY EXAMINATIONS)

PROJECT NO.:WIL-14069 — A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS — 

SPONSOR:LYONDELLBASELL — INDIVIDUAL CLINICAL OBSERVATIONS

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO SIGNIFICANT CLINICAL OBSERVATIONS | 10629 | 1 | | P | P | P | P | P | P | P | P | | | | | | | | | | P | | |
| | 10609 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10602 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10598 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10632 | 1 | | | | P | P | P | P | P | P | P | P | P | P | P | P | | P | P | P | P | |
| | 10649 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10612 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10652 | 1 | P | P | | | | | | | | P | | | | | | | | | | | |
| | 10607 | 1 | | | P | | | | | | | | | | | | | P | P | P | P | P | P |
| | 10671 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10626 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | P | P |
| | 10635 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10624 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10667 | 1 | P | P | P | P | P | P | P | P | | P | P | | P | P | P | P | | P | | | |
| | 10650 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | P | | | | | |
| | 10706 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | P | P | P | P | P |
| | 10604 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10633 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10647 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | P | | |
| | 10675 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10697 | 1 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10711 | 1 | P | P | P | P | P | P | P | P | | P | P | P | P | P | P | P | P | P | P | | P |
| | 10596 | 2 | | | | | | | P | | | | | | | | | | | | | | |
| | 10657 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | P | P | P | P | P |
| | 10600 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10623 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | P |
| | 10589 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE A1 (DAILY EXAMINATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO SIGNIFICANT CLINICAL OBSERVATIONS | 10661 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | P | P | | |
| | 10655 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10710 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10603 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | P |
| | 10703 | 2 | P | P | P | P | P | | | | | | | | | | | | | | | | |
| | 10688 | 2 | P | P | P | P | P | P | P | P | P | P | P | | P | | | P | | | | | |
| | 10696 | 2 | P | | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10619 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10651 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10618 | 2 | | | | | | | | | P | P | | P | | P | P | P | P | P | P | | |
| | 10625 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10699 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | P | P |
| | 10709 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10705 | 2 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10594 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10656 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10648 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10584 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10588 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10601 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10631 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10637 | 3 | P | P | P | | | P | P | | | | | | | | | | | | | | |
| | 10605 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10644 | 3 | P | P | P | P | P | P | P | P | P | P | P | | | | | P | | | P | P | P |
| | 10616 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10700 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10586 | 3 | P | | P | P | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE A1 (DAILY EXAMINATIONS)

PROJECT NO.:WIL-14069 — A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS — PAGE 3

SPONSOR:LYONDELLBASELL — INDIVIDUAL CLINICAL OBSERVATIONS

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO SIGNIFICANT CLINICAL OBSERVATIONS | 10617 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10665 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10664 | 3 | P | | | | | | | | | | | P | | | | | | | | | |
| | 10666 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10592 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10641 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | | | | |
| | 10679 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10673 | 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | | | |
| | 10680 | 3 | P | | | P | | | | | | P | | | | P | | | | | | | |
| | 10590 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10599 | 4 | P | | P | P | P | P | P | P | P | P | | | | | | | | P | | | |
| | 10583 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10597 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10595 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10669 | 4 | P | P | P | P | P | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10606 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10678 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10694 | 4 | P | P | P | P | | | P | P | | P | P | P | | | | P | P | | P | P | P |
| | 10643 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | P | | P | P | |
| | 10692 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10658 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10582 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10585 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10676 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10630 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | |
| | 10685 | 4 | P | P | P | | | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10674 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE A1 (DAILY EXAMINATIONS)
A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
INDIVIDUAL CLINICAL OBSERVATIONS



| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO SIGNIFICANT CLINICAL OBSERVATIONS | 10672 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10681 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | P | P | P | P | |
| | 10687 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10708 | 4 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10646 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10640 | 5 | P | P | P | P | P | | | | | | | | | | P | | | | | | |
| | 10593 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10613 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10663 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10608 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10628 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10642 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10621 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10627 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10610 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | | |
| | 10639 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | | | | | | |
| | 10668 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10615 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10591 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10659 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10611 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10707 | 5 | P | P | P | P | P | P | P | P | P | | | | | | | | | | | | |
| | 10620 | 5 | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10686 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | 10689 | 5 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| FOUND DEAD | 10707 | 5 | | | | | | | | | P | | | | | | | | | | | | |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 |
|---|---|---|---|
| SCHEDULED EUTHANASIA; GESTATION DAY 20 | 10629 | 1 | P |
| | 10609 | 1 | P |
| | 10602 | 1 | P |
| | 10598 | 1 | P |
| | 10632 | 1 | P |
| | 10649 | 1 | P |
| | 10612 | 1 | P |
| | 10652 | 1 | P |
| | 10607 | 1 | P |
| | 10671 | 1 | P |
| | 10626 | 1 | P |
| | 10635 | 1 | P |
| | 10624 | 1 | P |
| | 10667 | 1 | P |
| | 10650 | 1 | P |
| | 10706 | 1 | P |
| | 10604 | 1 | P |
| | 10633 | 1 | P |
| | 10647 | 1 | P |
| | 10675 | 1 | P |
| | 10697 | 1 | P |
| | 10711 | 1 | P |
| | 10596 | 2 | P |
| | 10657 | 2 | P |
| | 10670 | 2 | P |
| | 10600 | 2 | P |
| | 10623 | 2 | P |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE A1 (DAILY EXAMINATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 |
|---|---|---|---|
| SCHEDULED EUTHANASIA; GESTATION DAY 20 | 10589 | 2 | P |
| | 10661 | 2 | P |
| | 10655 | 2 | P |
| | 10710 | 2 | P |
| | 10603 | 2 | P |
| | 10703 | 2 | P |
| | 10688 | 2 | P |
| | 10636 | 2 | P |
| | 10696 | 2 | P |
| | 10619 | 2 | P |
| | 10651 | 2 | P |
| | 10618 | 2 | P |
| | 10625 | 2 | P |
| | 10699 | 2 | P |
| | 10709 | 2 | P |
| | 10691 | 2 | P |
| | 10705 | 2 | P |
| | 10594 | 3 | P |
| | 10656 | 3 | P |
| | 10648 | 3 | P |
| | 10584 | 3 | P |
| | 10588 | 3 | P |
| | 10601 | 3 | P |
| | 10631 | 3 | P |
| | 10637 | 3 | P |
| | 10605 | 3 | P |
| | 10644 | 3 | P |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 1 2 3 4 5 6 7 8 9 | 1 1 1 1 1 1 1 1 1 2 0 1 2 3 4 5 6 7 8 9 0 |
|---|---|---|---|---|
| SCHEDULED EUTHANASIA; GESTATION DAY 20 | 10616 | 3 | | P |
| | 10700 | 3 | | P |
| | 10586 | 3 | | P |
| | 10617 | 3 | | P |
| | 10665 | 3 | | P |
| | 10664 | 3 | | P |
| | 10666 | 3 | | P |
| | 10592 | 3 | | P |
| | 10641 | 3 | | P |
| | 10679 | 3 | | P |
| | 10673 | 3 | | P |
| | 10680 | 3 | | P |
| | 10590 | 4 | | P |
| | 10599 | 4 | | P |
| | 10583 | 4 | | P |
| | 10597 | 4 | | P |
| | 10595 | 4 | | P |
| | 10669 | 4 | | P |
| | 10606 | 4 | | P |
| | 10678 | 4 | | P |
| | 10694 | 4 | | P |
| | 10643 | 4 | | P |
| | 10692 | 4 | | P |
| | 10658 | 4 | | P |
| | 10582 | 4 | | P |
| | 10585 | 4 | | P |
| | 10676 | 4 | | P |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE A1 (DAILY EXAMINATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 1 2 3 4 5 6 7 8 9 | 1 1 1 1 1 1 1 1 1 2 0 1 2 3 4 5 6 7 8 9 0 |
|---|---|---|---|---|
| SCHEDULED EUTHANASIA; GESTATION DAY 20 | 10630 | 4 | | P |
| | 10685 | 4 | | P |
| | 10674 | 4 | | P |
| | 10672 | 4 | | P |
| | 10681 | 4 | | P |
| | 10687 | 4 | | P |
| | 10708 | 4 | | P |
| | 10646 | 5 | | P |
| | 10640 | 5 | | P |
| | 10593 | 5 | | P |
| | 10613 | 5 | | P |
| | 10663 | 5 | | P |
| | 10608 | 5 | | P |
| | 10628 | 5 | | P |
| | 10642 | 5 | | P |
| | 10621 | 5 | | P |
| | 10627 | 5 | | P |
| | 10610 | 5 | | P |
| | 10639 | 5 | | P |
| | 10668 | 5 | | P |
| | 10615 | 5 | | P |
| | 10591 | 5 | | P |
| | 10659 | 5 | | P |
| | 10611 | 5 | | P |
| | 10620 | 5 | | P |
| | 10686 | 5 | | P |
| | 10689 | 5 | | P |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCHEDULED EUTHANASIA; GESTATION DAY 20 | 10704 | 5 | | | | | | | | | | | | | | | | | | | | | P |
| HYPOACTIVITY | 10613 | 5 | | | | | | | | | | P | | | | | | | | | | | |
| | 10628 | 5 | | | | | | | | | | P | | | | | | | | | | | |
| HAIR LOSS RIGHT FORELIMB | 10629 | 1 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 |
| | 10632 | 1 | | | | | | | | | | | | | | | | 1 | | | | | 1 |
| | 10652 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 10607 | 1 | 1 | | | | | 1 | 1 | 1 | | | | | | 1 | | | | | | | |
| | 10626 | 1 | | | | | | | | | | | | | | | | | 1 | | | | |
| | 10667 | 1 | | | | | | | | | | | | | | | | 1 | | 1 | 1 | 1 | |
| | 10650 | 1 | | | | | | | | | | | | | | 1 | | 1 | 1 | 1 | 1 | 1 | |
| | 10706 | 1 | | | | | | | | | | | | | | | 1 | | | | | | |
| | 10647 | 1 | | | | | | | | | | | | | | | | 1 | 1 | | 1 | 1 | |
| | 10711 | 1 | | | | | | | | | 1 | | | | | | | | | | 1 | | |
| | 10596 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10657 | 2 | | | | | | | | | | | | | | | | 1 | | | | | |
| | 10670 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10623 | 2 | | | | | | | | | | | | | | | | | | | 1 | | |
| | 10661 | 2 | | | | | | | | | | | | | | | | 1 | | | 1 | 1 | |
| | 10603 | 2 | | | | | | | | | | | | | | | | | | | 1 | | |
| | 10703 | 2 | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10688 | 2 | | | | | | | | | | | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 |
| | 10636 | 2 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 1 | 2 |
| | 10618 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | | | | | | | 1 | 1 |
| | 10699 | 2 | | | | | | | | | | | | | | | | | | 1 | | | |
| | 10691 | 2 | | 1 | | | | | | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 |
|---|---|---|---|
| HAIR LOSS RIGHT FORELIMB | 10637 | 3 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | 10644 | 3 | 1 1 1 1 1 1 1 |
| | 10586 | 3 | 1 |
| | 10664 | 3 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | 10641 | 3 | 1 1 1 3 3 |
| | 10673 | 3 | 1 1 |
| | 10680 | 3 | 1 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 2 |
| | 10599 | 4 | 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | 10694 | 4 | 1 1 1 1 1 |
| | 10643 | 4 | 1 1 1 |
| | 10630 | 4 | 1 1 |
| | 10674 | 4 | 1 1 |
| | 10681 | 4 | 1 1 |
| | 10640 | 5 | 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 2 |
| | 10610 | 5 | 1 1 1 1 |
| | 10639 | 5 | 1 1 1 1 1 1 1 1 |
| | 10704 | 5 | 2 3 3 3 3 3 1 1 3 2 3 3 2 3 3 3 3 3 3 3 3 |
| HAIR LOSS LEFT FORELIMB | 10629 | 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | 10632 | 1 | 1 1 |
| | 10652 | 1 | 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 |
| | 10626 | 1 | 1 |
| | 10667 | 1 | 1 1 1 1 1 1 1 1 1 1 1 |
| | 10650 | 1 | 1 1 1 1 1 1 1 |
| | 10706 | 1 | 1 |
| | 10647 | 1 | 1 1 1 1 1 |
| | 10711 | 1 | 1 |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HAIR LOSS LEFT FORELIMB | 10596 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10657 | 2 | | | | | | | | | | | | | | | | 1 | | | | | |
| | 10670 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10661 | 2 | | | | | | | | | | | | | | | | | 1 | | | 1 | 1 |
| | 10703 | 2 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10688 | 2 | | | | | | | | | | | | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 |
| | 10636 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 |
| | 10618 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | | 1 | | 1 | | | | | | | 1 | 1 |
| | 10691 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 10637 | 3 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10644 | 3 | | | | | | | | | | | 1 | 1 | 1 | 1 | | 1 | 1 | | | | |
| | 10664 | 3 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10641 | 3 | | | | | | | | | | | | | | | | 1 | 1 | 3 | 1 | 3 | 3 |
| | 10673 | 3 | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 |
| | 10680 | 3 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| | 10599 | 4 | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | 10694 | 4 | | | | 1 | 1 | | | 1 | | | | | 1 | | | | | | | | |
| | 10643 | 4 | | | | | | | | | | | | | | | 1 | 1 | | 1 | | | 1 |
| | 10630 | 4 | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| | 10681 | 4 | | | | | | | | | | | | | | | | 1 | | | | | |
| | 10640 | 5 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 2 | 1 | 2 |
| | 10610 | 5 | | | | | | | | | | | | | | | | | 1 | | | 1 | 1 |
| | 10639 | 5 | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10704 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| HAIR LOSS RIGHT HINDLIMB | 10629 | 1 | 1 | | | | | | | | | | | | | | | | | | | 1 | 1 |
| | 10607 | 1 | | | | | | | | | | | | | | | 1 | | | | | | |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE A1 (DAILY EXAMINATIONS)
A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
INDIVIDUAL CLINICAL OBSERVATIONS



| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HAIR LOSS RIGHT HINDLIMB | 10650 | 1 | | | | | | | | | | | | | | | | | 1 | | | | |
| | 10596 | 2 | | | | | | | | | | 1 | 1 | | | 1 | | 1 | 1 | | | 1 | 1 |
| | 10703 | 2 | | | | | | | | | 1 | | | 1 | | 1 | 1 | | 1 | 1 | | | |
| | 10691 | 2 | | | | | | | | | | | 1 | | | | | | | | | | |
| | 10637 | 3 | | | | | | | | | | 1 | | | 1 | | 1 | 1 | | | | 1 | 1 |
| | 10664 | 3 | | | | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10680 | 3 | | | | | 1 | 1 | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | |
| | 10599 | 4 | | | | | | | | | | | | | | 1 | | 1 | | | | 1 | |
| | 10640 | 5 | | | | | | | | | | | | | | | | 1 | 1 | | 1 | 1 | 1 |
| | 10610 | 5 | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| | 10704 | 5 | | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | |
| HAIR LOSS LEFT HINDLIMB | 10629 | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| | 10650 | 1 | | | | | | | | | | | | | | | | | 1 | | | | |
| | 10596 | 2 | | | | | | | | | | 1 | 1 | | | 1 | | 1 | 1 | | | 1 | 1 |
| | 10670 | 2 | | | | | | | | | | 1 | | | | | | | | | | | |
| | 10703 | 2 | | | | | | | | | 1 | | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 |
| | 10691 | 2 | | 1 | 1 | 1 | 1 | | | | 1 | | 1 | | | | | | | | | | |
| | 10637 | 3 | | | | | | | | | | 1 | | | 1 | | 1 | 1 | | | | 1 | 1 |
| | 10664 | 3 | | | | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 |
| | 10680 | 3 | | | | | | 1 | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | |
| | 10599 | 4 | | | | | | | | | | | | | | 1 | | 1 | | | | 1 | |
| | 10685 | 4 | | | | | | | 1 | | | | | | | | | | | | | | |
| | 10640 | 5 | | | | | | | | | | | | | | | | 1 | 1 | | 1 | 1 | 1 |
| | 10610 | 5 | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| | 10704 | 5 | | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| HAIR LOSS RUMP | 10669 | 4 | | | | | | 1 | | | | | | | | | | | | | | | |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 |
|---|---|---|---|
| SCABBING LEFT FORELIMB | 10667 | 1 | P |
| | 10636 | 2 | P P P P P |
| | 10637 | 3 | P |
| | 10664 | 3 | P |
| | 10685 | 4 | P P P |
| | 10610 | 5 | P P P P |
| SCABBING RIGHT FORELIMB | 10652 | 1 | P |
| | 10596 | 2 | P |
| | 10636 | 2 | P |
| | 10664 | 3 | P |
| | 10610 | 5 | P P P P P |
| HAIR LOSS VENTRAL ABDOMINAL AREA | 10652 | 1 | 1 1 1 |
| | 10673 | 3 | 1 |
| SCABBING RIGHT HINDLIMB | 10610 | 5 | P P P P |
| SCABBING LEFT HINDLIMB | 10610 | 5 | P P P P |
| HAIR LOSS DORSAL ABDOMINAL AREA | 10599 | 4 | 1 |
| | 10620 | 5 | 1 |
| HAIR LOSS DORSAL HEAD | 10632 | 1 | 1 1 1 |
| DRIED RED MATERIAL AROUND RIGHT EYE | 10607 | 1 | 1 2 1 1 1 1 1 1 1 1 1 |
| LACRIMATION RIGHT EYE | 10607 | 1 | 1 1 |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

| OBSERVATION | ANIMAL | GROUP | GESTATIONAL DAY 0 1 2 3 4 5 6 7 8 9 | 1 1 1 1 1 1 1 1 1 1 2 0 1 2 3 4 5 6 7 8 9 0 |
|---|---|---|---|---|
| LACRIMATION RIGHT EYE | 10613 | 5 | | 2 |
| LACRIMATION LEFT EYE | 10613 | 5 | | 2 |
| DRIED RED MATERIAL AROUND NOSE | 10586 | 3 | 1 | |
| TEETH LONG; TRIMMED | 10607 | 1 | P | P |

GRADE CODE: P = PRESENT 1 = SLIGHT 2 = MODERATE 3 = SEVERE

1- 0 MG/KG/DAY 2- 400 MG/KG/DAY 3- 800 MG/KG/DAY 4- 1000 MG/KG/DAY 5- 1600 MG/KG/DAY

TABLE A2 (AT TIME OF DOSING)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| 10670 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:13 | 2 | SALIVATION PRIOR TO DOSING |
| | | | | 04-08-08 | 11:13 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-10-08 | 11:15 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 11:17 | 2 | SALIVATION PRIOR TO DOSING |
| 10656 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:25 | 1 | SALIVATION PRIOR TO DOSING |
| 10588 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:31 | 2 | SALIVATION PRIOR TO DOSING |
| 10616 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:29 | 1 | SALIVATION PRIOR TO DOSING |
| 10665 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:36 | 2 | SALIVATION PRIOR TO DOSING |
| 10595 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:45 | 2 | SALIVATION PRIOR TO DOSING |
| | | | | 04-08-08 | 11:37 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-09-08 | 11:47 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 11:43 | 2 | SALIVATION PRIOR TO DOSING |
| 10669 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 11:48 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-10-08 | 11:39 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 11:44 | 2 | SALIVATION PRIOR TO DOSING |
| 10606 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:44 | 2 | SALIVATION PRIOR TO DOSING |
| 10692 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:41 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 11:47 | 2 | SALIVATION PRIOR TO DOSING |
| 10582 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:50 | 2 | SALIVATION PRIOR TO DOSING |
| 10676 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:50 | 3 | SALIVATION PRIOR TO DOSING |
| 10674 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:52 | 2 | SALIVATION PRIOR TO DOSING |
| 10640 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 11:59 | 1 | SALIVATION PRIOR TO DOSING |
| 10613 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:03 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-09-08 | 12:01 | 2 | SALIVATION PRIOR TO DOSING |
| 10628 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:21 | P | SALIVATION PRIOR TO DOSING |
| | | | | 04-08-08 | 11:50 | 1 | SALIVATION PRIOR TO DOSING |
| 10627 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 12:01 | 2 | SALIVATION PRIOR TO DOSING |
| 10639 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:53 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 12:03 | 3 | SALIVATION PRIOR TO DOSING |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| 10615 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 12:08 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-10-08 | 11:54 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 12:05 | 2 | SALIVATION PRIOR TO DOSING |
| 10591 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 12:09 | 2 | SALIVATION PRIOR TO DOSING |
| | | | | 04-10-08 | 11:54 | 2 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 12:05 | 3 | SALIVATION PRIOR TO DOSING |
| 10659 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:55 | 1 | SALIVATION PRIOR TO DOSING |
| | | | | 04-12-08 | 12:07 | 2 | SALIVATION PRIOR TO DOSING |
| 10611 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:56 | 1 | SALIVATION PRIOR TO DOSING |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10609 | F | 0 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:59 | 1 | LACRIMATION LEFT EYE |
| 10602 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:03 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10632 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10612 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10652 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:06 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10607 | F | 0 MG/KG/DAY | EYES/EARS/NOSE | 04-08-08 | 11:16 | 1 | LACRIMATION RIGHT EYE |
| 10607 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:16 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10671 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-15-08 | 11:22 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10626 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10624 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-15-08 | 11:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10706 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:19 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10604 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 11:28 | 1 | SALIVATION |
| | | | | 04-09-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:32 | 1 | SALIVATION |
| | | | | 04-11-08 | 11:11 | 1 | SALIVATION |
| | | | | 04-14-08 | 15:10 | 1 | SALIVATION |
| | | | | 04-15-08 | 11:27 | 1 | SALIVATION |
| | | | | 04-15-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10647 | F | 0 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:18 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10596 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10670 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:00 | 1 | DRIED RED MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 11:34 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:35 | 1 | DRIED RED MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 2

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10670 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:37 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:28 | 1 | SALIVATION |
| | | | | 04-12-08 | 11:41 | 1 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:14 | 2 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:14 | 2 | SALIVATION |
| 10600 | F | 400 MG/KG/DAY | BODY/INTEGUMENT | 04-09-08 | 11:46 | 1 | WED RED VAGINAL DISCHARGE |
| 10600 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:26 | 1 | LACRIMATION RIGHT EYE |
| 10600 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 11:19 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:15 | 1 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:26 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10623 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10589 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:27 | 1 | LACRIMATION RIGHT EYE |
| 10589 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-01-08 | 9:54 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:01 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10661 | F | 400 MG/KG/DAY | BODY/INTEGUMENT | 04-09-08 | 11:47 | 1 | WED RED VAGINAL DISCHARGE |
| | | | | 04-10-08 | 11:39 | P | WED RED VAGINAL DISCHARGE |
| 10661 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:20 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:15 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10655 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 10:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10655 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:37 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 11:36 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:14 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:39 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:42 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:34 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10710 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 12:59 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:49 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:49 | 1 | LACRIMATION LEFT EYE |
| 10603 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:38 | 1 | SALIVATION |
| | | | | 04-11-08 | 11:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:35 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10703 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-06-08 | 11:02 | 1 | WET CLEAR MATERIAL AROUND NOSE |
| 10703 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:39 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:39 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10703 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:29 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:22 | 1 | SALIVATION |
| | | | | 04-12-08 | 11:34 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:43 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:16 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:35 | 1 | SALIVATION |
| 10688 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 11:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10636 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:28 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10696 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:23 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:37 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-17-08 | 11:16 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-18-08 | 11:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10651 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:30 | 1 | LACRIMATION LEFT EYE |
| 10651 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-13-08 | 11:29 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:18 | 1 | SALIVATION |
| | | | | 04-14-08 | 15:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10618 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:30 | 1 | SALIVATION |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10618 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 11:41 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:32 | 2 | SALIVATION |
| | | | | 04-10-08 | 11:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:18 | 1 | SALIVATION |
| | | | | 04-15-08 | 11:39 | 1 | SALIVATION |
| 10625 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:30 | 1 | LACRIMATION LEFT EYE |
| 10625 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:25 | 1 | SALIVATION |
| | | | | 04-16-08 | 11:40 | 1 | WET RED MATERIAL AROUND MOUTH |
| 10709 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:31 | 1 | LACRIMATION RIGHT EYE |
| 10709 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-13-08 | 11:20 | 1 | SALIVATION |
| | | | | 04-14-08 | 15:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:31 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:41 | 1 | SALIVATION |
| | | | | 04-15-08 | 11:53 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10691 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:33 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:20 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:20 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-18-08 | 11:16 | 2 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 — A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS — PAGE 6

SPONSOR:LYONDELLBASELL — INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10691 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-18-08 | 11:29 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-18-08 | 11:55 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10705 | F | 400 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:31 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:31 | 1 | LACRIMATION LEFT EYE |
| 10705 | F | 400 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-18-08 | 11:29 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10594 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 11:48 | P | WALKS ON TIPTOES |
| | | | | 04-09-08 | 11:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10594 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 13:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 11:39 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:39 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:34 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:34 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:22 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:22 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:33 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:33 | 1 | LACRIMATION LEFT EYE |
| 10594 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:36 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10656 | F | 800 MG/KG/DAY | CARDIO-PULMONARY | 04-08-08 | 13:32 | P | RALES |
| 10656 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-07-08 | 11:36 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:36 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:22 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 7

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10656 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:22 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:33 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:33 | 1 | LACRIMATION LEFT EYE |
| 10656 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:12 | 2 | DRIED RED MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:34 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:46 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:36 | 1 | SALIVATION |
| | | | | 04-10-08 | 11:47 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:32 | 1 | SALIVATION |
| | | | | 04-11-08 | 11:44 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:33 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10648 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 11:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:31 | P | RETROPULSION |
| | | | | 04-03-08 | 12:31 | P | BODY FLAT |
| | | | | 04-04-08 | 11:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:11 | P | RETROPULSION |
| | | | | 04-07-08 | 11:38 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10648 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:39 | P | DILATED PUPIL RIGHT EYE |
| | | | | 04-13-08 | 11:39 | P | DILATED PUPIL LEFT EYE |
| | | | | 04-13-08 | 12:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:10 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:55 | 1 | LACRIMATION LEFT EYE |
| 10584 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 11:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:43 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10584 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 13:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 11:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 11:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 11:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:18 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:18 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:10 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:03 | 1 | LACRIMATION LEFT EYE |
| 10584 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:49 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:36 | 2 | SALIVATION |
| | | | | 04-10-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:33 | 1 | SALIVATION |
| | | | | 04-11-08 | 11:45 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:41 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:52 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:22 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:36 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10588 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 13:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 11:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:43 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:11 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:11 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:17 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10588 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-01-08 | 9:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10601 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 11:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10601 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:40 | 1 | LACRIMATION LEFT EYE |
| 10601 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10631 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:00 | P | RETROPULSION |
| | | | | 04-03-08 | 12:00 | P | CIRCLING |
| | | | | 04-03-08 | 12:33 | P | CIRCLING |
| 10631 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:27 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:27 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:28 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:28 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 11:45 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:45 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 11:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:25 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10631 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 12:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:56 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:17 | 1 | LACRIMATION LEFT EYE |
| 10631 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:37 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 11:57 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:36 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:43 | 1 | SALIVATION |
| | | | | 04-12-08 | 11:54 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:37 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10637 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-11-08 | 11:37 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10637 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-12-08 | 12:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:37 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION LEFT EYE |
| 10637 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10637 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:36 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:12 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:55 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:26 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:41 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10605 | F | 800 MG/KG/DAY | BODY/INTEGUMENT | 04-11-08 | 11:37 | P | WED RED VAGINAL DISCHARGE |
| 10605 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:35 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:35 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:00 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:00 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 11:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:37 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:18 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:18 | 1 | LACRIMATION LEFT EYE |
| 10605 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 11:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10605 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10644 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 11:47 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10644 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:35 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:35 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 11:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION LEFT EYE |
| 10616 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:35 | P | WALKS ON TIPTOES |
| | | | | 04-04-08 | 11:48 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:21 | P | CIRCLING |
| | | | | 04-04-08 | 13:17 | P | CIRCLING |
| | | | | 04-07-08 | 11:43 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 11:50 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10616 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-14-08 | 15:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:19 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:04 | 1 | LACRIMATION LEFT EYE |
| 10616 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:39 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:58 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10700 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-12-08 | 11:56 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 11:56 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10700 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-15-08 | 11:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 11:47 | 1 | LACRIMATION LEFT EYE |
| 10700 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10586 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:36 | P | WALKS ON TIPTOES |
| | | | | 04-04-08 | 12:22 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 11:58 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 11:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10586 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:37 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:32 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:32 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 11:44 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 11:43 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 11:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 11:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 11:57 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:27 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:27 | 1 | LACRIMATION LEFT EYE |
| 10586 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 10:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 10:58 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:17 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:40 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:53 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:24 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:53 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10586 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 11:40 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:47 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:57 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:27 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:40 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10617 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 11:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:40 | 1 | LACRIMATION LEFT EYE |
| 10617 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:52 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:58 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:28 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10665 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:23 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10665 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 11:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:51 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-06-08 | 11:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:46 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:46 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 13:13 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10665 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-09-08 | 13:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:16 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:16 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 11:58 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 11:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:40 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:21 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:28 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:28 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:42 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:43 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:15 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:15 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:58 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 11:49 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 11:49 | 1 | LACRIMATION LEFT EYE |
| 10665 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:07 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 11:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:54 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:44 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:53 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:52 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10665 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 12:21 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:58 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10664 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:03 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 11:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:00 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:18 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10664 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 13:34 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:34 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:23 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:58 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:28 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:28 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:05 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 11:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 11:29 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10664 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 10:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 11:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 11:52 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:54 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:53 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:22 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:29 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:43 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:28 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:41 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:02 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:29 | 1 | SALIVATION |
| | | | | 04-16-08 | 11:44 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10666 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-05-08 | 11:01 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 11:45 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10666 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:29 | 1 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:50 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10592 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 11:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:38 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10592 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-05-08 | 11:02 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 11:53 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10592 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 11:48 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:48 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 11:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 11:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:44 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 11:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 11:51 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 11:31 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 11:31 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 12:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 12:12 | 1 | LACRIMATION LEFT EYE |
| 10592 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-03-08 | 11:40 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:24 | 1 | DRIED RED MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10592 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:42 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:55 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:45 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10641 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-06-08 | 11:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10641 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 11:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 11:51 | 1 | LACRIMATION LEFT EYE |
| 10641 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:32 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10679 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-11-08 | 11:45 | P | WALKS ON TIPTOES |
| 10679 | F | 800 MG/KG/DAY | BODY/INTEGUMENT | 04-16-08 | 11:47 | 2 | WET YELLOW MATERIAL UROGENITAL AREA |
| 10679 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 11:54 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:54 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:44 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:44 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:30 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10679 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-14-08 | 17:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 12:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 12:12 | 1 | LACRIMATION LEFT EYE |
| 10679 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:55 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:45 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:30 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:44 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:33 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-17-08 | 11:21 | 1 | SALIVATION |
| 10673 | F | 800 MG/KG/DAY | BEHAVIOR/CNS | 04-10-08 | 11:47 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10673 | F | 800 MG/KG/DAY | EYES/EARS/NOSE | 04-07-08 | 11:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:45 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:45 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:17 | P | DILATED PUPIL RIGHT EYE |
| | | | | 04-13-08 | 12:17 | P | DILATED PUPIL LEFT EYE |
| 10673 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:20 | 1 | DRIED RED MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10680 | F | 800 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 11:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:35 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-18-08 | 11:18 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-18-08 | 11:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10590 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:46 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:46 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 11:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:21 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:46 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:46 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:18 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:18 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:01 | 1 | LACRIMATION LEFT EYE |
| 10590 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10599 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:31 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:06 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 11:59 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10599 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 12:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 11:58 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:33 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10599 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-13-08 | 11:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10583 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 11:54 | P | HINDLIMBS SPLAYED |
| | | | | 04-02-08 | 12:03 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 11:55 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:22 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10583 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 13:27 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:27 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 11:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:55 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:32 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:22 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:22 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 11:54 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 11:54 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:05 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:46 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:46 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:19 | 1 | LACRIMATION LEFT EYE |
| 10583 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:54 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:05 | 3 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10597 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:04 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10597 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:48 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:48 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:47 | 1 | LACRIMATION LEFT EYE |
| 10597 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 12:09 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:55 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:06 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10595 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-01-08 | 10:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:33 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:34 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 11:49 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:49 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 11:58 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 11:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:48 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:48 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:48 | P | DILATED PUPIL RIGHT EYE |
| | | | | 04-13-08 | 11:48 | P | DILATED PUPIL LEFT EYE |
| | | | | 04-13-08 | 12:20 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:25 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10595 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-14-08 | 16:25 | 1 | LACRIMATION LEFT EYE |
| 10595 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:52 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:47 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:37 | 1 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10669 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:11 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:42 | P | WALKS ON TIPTOES |
| | | | | 04-04-08 | 12:00 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:31 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:31 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:12 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:37 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:02 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:38 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10669 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 13:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 12:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 12:21 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 11:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 12:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 12:01 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)
A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]



TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10669 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-10-08 | 11:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 11:51 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:27 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:27 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:36 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:36 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:20 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:20 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:08 | 1 | LACRIMATION LEFT EYE |
| 10669 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:00 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 11:57 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:49 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:10 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:54 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:07 | 1 | DRIED RED MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:37 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10606 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:06 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:43 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 13:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:14 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10606 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-09-08 | 12:11 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 11:51 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 11:57 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10606 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:00 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:00 | 1 | LACRIMATION LEFT EYE |
| 10606 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 12:13 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10678 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:43 | P | HINDLIMBS SPLAYED |
| | | | | 04-04-08 | 12:01 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10678 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:51 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 11:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:49 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:49 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:49 | 1 | WET CLEAR MATERIAL AROUND NOSE |
| 10678 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:11 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:55 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:49 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 11:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10694 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:07 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:34 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:35 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10694 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-07-08 | 12:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10694 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:36 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:36 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:44 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 11:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:13 | 1 | DRIED RED MATERIAL AROUND NOSE |
| | | | | 04-07-08 | 11:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 11:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:49 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:49 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:22 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:22 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:03 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:09 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:09 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:00 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:00 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:11 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:11 | 1 | LACRIMATION LEFT EYE |
| 10694 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:35 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10694 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:39 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10643 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:00 | P | HINDLIMBS SPLAYED |
| | | | | 04-02-08 | 12:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:38 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:14 | P | HINDLIMBS SPLAYED |
| | | | | 04-04-08 | 12:03 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:34 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:35 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:18 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:31 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:03 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 11:57 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10643 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-05-08 | 11:14 | 2 | DRIED RED MATERIAL AROUND NOSE |
| | | | | 04-07-08 | 12:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 12:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 12:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:49 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:49 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:28 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:28 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:23 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:23 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:41 | 1 | LACRIMATION LEFT EYE |
| 10643 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-13-08 | 11:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10643 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:39 | 1 | WET RED MATERIAL AROUND MOUTH |
| 10692 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10692 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:09 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:09 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:39 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:39 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:49 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:49 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:23 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:23 | 1 | LACRIMATION LEFT EYE |
| 10692 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 11:53 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:03 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:00 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:09 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:39 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:49 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:39 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10658 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:04 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:27 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10658 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-12-08 | 12:01 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10658 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 12:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:03 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:01 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:02 | 1 | LACRIMATION LEFT EYE |
| 10658 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:04 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:13 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:54 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:03 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 11:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:10 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:50 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:02 | 1 | SALIVATION |
| 10582 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 11:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:27 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10582 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:55 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:01 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10582 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-12-08 | 12:01 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:09 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:09 | 1 | LACRIMATION LEFT EYE |
| 10582 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:41 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10585 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:51 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10585 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 12:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:53 | 2 | WET CLEAR MATERIAL AROUND NOSE |
| | | | | 04-14-08 | 16:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:14 | 2 | WET CLEAR MATERIAL AROUND NOSE |
| 10585 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:35 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 11:53 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:33 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:06 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:14 | 2 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10585 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 12:38 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:55 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:04 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:01 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:41 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:02 | 1 | SALIVATION |
| | | | | 04-12-08 | 12:12 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:40 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:50 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:42 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:52 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:03 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:14 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| 10676 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 13:35 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:07 | P | HINDLIMBS SPLAYED |
| 10676 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:46 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:47 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:35 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:35 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 11:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:45 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:45 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:29 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10676 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-07-08 | 13:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:28 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:28 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:43 | 1 | LACRIMATION LEFT EYE |
| 10676 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 12:02 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:12 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:40 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10630 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 11:59 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:46 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:06 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:25 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:58 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10630 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-09-08 | 12:15 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 11:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:05 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:15 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10630 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 11:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 11:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:18 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:18 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:36 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:05 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 11:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 11:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:29 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:29 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:10 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:05 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 11:38 | P | DILATED PUPIL RIGHT EYE |
| | | | | 04-16-08 | 11:38 | P | DILATED PUPIL LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10630 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 12:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:02 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10685 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:07 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:06 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:24 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:08 | P | HINDLIMBS SPLAYED |
| | | | | 04-08-08 | 12:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 11:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 13:30 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 11:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10685 | F | 1000 MG/KG/DAY | BODY/INTEGUMENT | 04-08-08 | 11:54 | 2 | WET CLEAR MATERIAL VENTRAL NECK |
| 10685 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:20 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:20 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:47 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:51 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:51 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:54 | 1 | WET CLEAR MATERIAL AROUND NOSE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10685 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-14-08 | 15:54 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:54 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:17 | 1 | WET CLEAR MATERIAL AROUND NOSE |
| 10685 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:54 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:07 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:35 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:04 | 2 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:16 | 1 | DRIED RED MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:13 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:51 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:54 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:06 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:38 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:51 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10674 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:07 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:41 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:06 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:25 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 11:57 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:06 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10674 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:47 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10674 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-08-08 | 12:36 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:51 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:26 | 1 | LACRIMATION LEFT EYE |
| 10674 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 12:06 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:44 | 2 | SALIVATION |
| | | | | 04-14-08 | 15:55 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:06 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:39 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10672 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10672 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 12:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 11:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 11:57 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:52 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:52 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:56 | 1 | WET CLEAR MATERIAL AROUND NOSE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10672 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-15-08 | 12:07 | P | DILATED PUPIL RIGHT EYE |
| | | | | 04-15-08 | 12:07 | P | DILATED PUPIL LEFT EYE |
| 10672 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 12:07 | 1 | SALIVATION |
| | | | | 04-08-08 | 11:55 | 3 | SALIVATION |
| | | | | 04-08-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:16 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:57 | 1 | SALIVATION |
| | | | | 04-10-08 | 12:06 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:05 | 2 | SALIVATION |
| | | | | 04-11-08 | 12:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:06 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:14 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:42 | 1 | SALIVATION |
| | | | | 04-13-08 | 11:52 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:44 | 1 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:56 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 16:31 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:07 | 2 | SALIVATION |
| | | | | 04-15-08 | 12:19 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:52 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10681 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:09 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:18 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:07 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:54 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10681 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-13-08 | 11:45 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10681 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 12:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:39 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:39 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-08-08 | 14:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 13:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 13:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 11:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 11:57 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:31 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:31 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:15 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:15 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:44 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:52 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:52 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:27 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:27 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:45 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:45 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:32 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:32 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 11:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 11:41 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10681 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-16-08 | 12:15 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 12:15 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 13:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 13:03 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-17-08 | 12:46 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-17-08 | 12:46 | 1 | LACRIMATION LEFT EYE |
| 10681 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:56 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:09 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 11:57 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:07 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:06 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:07 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:15 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:52 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:45 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-17-08 | 11:22 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-17-08 | 11:36 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10687 | F | 1000 MG/KG/DAY | BEHAVIOR/CNS | 04-06-08 | 11:27 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:09 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10687 | F | 1000 MG/KG/DAY | EYES/EARS/NOSE | 04-12-08 | 12:54 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:54 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:53 | 1 | LACRIMATION LEFT EYE |
| 10687 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-14-08 | 15:45 | 1 | WET RED MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10687 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-17-08 | 11:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10708 | F | 1000 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 12:09 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-18-08 | 11:22 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10646 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:43 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:46 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10646 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-06-08 | 12:48 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-06-08 | 12:48 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:10 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-08-08 | 14:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-08-08 | 14:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 12:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:01 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:33 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:33 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:56 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:32 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:32 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:45 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:45 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:55 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:55 | 2 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10646 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 12:28 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:28 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:06 | 1 | LACRIMATION LEFT EYE |
| 10646 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 11:58 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:38 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:10 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:09 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:10 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:22 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:45 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 13:35 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:09 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:18 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:45 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:54 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 13:06 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10640 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 13:22 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:49 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:45 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:12 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:23 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:47 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 12:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 — A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS — PAGE 43

SPONSOR:LYONDELLBASELL — INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10640 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-07-08 | 12:53 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:34 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10640 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:42 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:42 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:03 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:19 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:57 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:33 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:33 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:55 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:29 | 1 | LACRIMATION LEFT EYE |
| 10640 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 12:11 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10593 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 03-31-08 | 11:59 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 03-31-08 | 12:09 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 03-31-08 | 12:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:43 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 13:53 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:11 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:46 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:23 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:41 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10593 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-07-08 | 12:12 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:54 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:45 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10593 | F | 1600 MG/KG/DAY | BODY/INTEGUMENT | 04-06-08 | 12:52 | 1 | WET YELLOW MATERIAL UROGENITAL AREA |
| 10593 | F | 1600 MG/KG/DAY | CARDIO-PULMONARY | 04-04-08 | 12:22 | P | RALES |
| 10593 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:43 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:05 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:46 | 1 | DRIED RED MATERIAL AROUND NOSE |
| | | | | 04-04-08 | 13:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:34 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:34 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:11 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:11 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:46 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:46 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:56 | P | DILATED PUPIL RIGHT EYE |
| | | | | 04-13-08 | 11:56 | P | DILATED PUPIL LEFT EYE |
| | | | | 04-13-08 | 11:56 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10593 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:56 | 1 | LACRIMATION LEFT EYE |
| 10593 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-01-08 | 10:09 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-01-08 | 10:24 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-01-08 | 10:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 12:21 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 12:45 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:13 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:23 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:29 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:41 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 12:03 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:12 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:30 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:11 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:11 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:21 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:02 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:10 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:11 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:10 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:46 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:55 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10613 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-01-08 | 10:26 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-01-08 | 10:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10613 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:06 | P | HYPOACTIVITY |
| | | | | 04-03-08 | 12:07 | P | PROSTRATE |
| | | | | 04-03-08 | 12:24 | P | PROSTRATE |
| | | | | 04-03-08 | 12:51 | P | PROSTRATE |
| | | | | 04-03-08 | 13:54 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:11 | P | PROSTRATE |
| | | | | 04-04-08 | 12:23 | P | PROSTRATE |
| | | | | 04-04-08 | 12:49 | P | PROSTRATE |
| | | | | 04-04-08 | 13:43 | P | PROSTRATE |
| | | | | 04-05-08 | 11:13 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:24 | P | HINDLIMBS SPLAYED |
| | | | | 04-05-08 | 11:24 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:49 | P | PROSTRATE |
| | | | | 04-05-08 | 12:35 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:30 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:31 | P | HINDLIMBS SPLAYED |
| | | | | 04-06-08 | 11:42 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 12:05 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 12:54 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:13 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:12 | P | WALKS ON TIPTOES |
| | | | | 04-09-08 | 12:12 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:23 | P | WALKS ON TIPTOES |
| | | | | 04-10-08 | 12:02 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:11 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10613 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-01-08 | 10:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-01-08 | 10:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-01-08 | 10:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 — A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS — PAGE 47

SPONSOR:LYONDELLBASELL — INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10613 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:53 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:53 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:43 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:43 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:35 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:35 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:34 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:34 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:56 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:08 | 1 | LACRIMATION LEFT EYE |
| 10613 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-04-08 | 12:12 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 12:23 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 12:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 13:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:13 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:24 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:31 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:42 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 12:04 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:11 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:12 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10613 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 12:13 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:20 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10663 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-01-08 | 10:27 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:14 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:06 | P | HINDLIMBS SPLAYED |
| | | | | 04-05-08 | 11:26 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 12:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:14 | P | HINDLIMBS SPLAYED |
| | | | | 04-07-08 | 12:14 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:48 | P | HINDLIMBS SPLAYED |
| 10663 | F | 1600 MG/KG/DAY | CARDIO-PULMONARY | 04-01-08 | 10:46 | P | RALES |
| 10663 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 13:54 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:54 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 13:34 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 13:35 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:21 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:48 | P | DILATED PUPIL RIGHT EYE |
| | | | | 04-13-08 | 11:48 | P | DILATED PUPIL LEFT EYE |
| | | | | 04-13-08 | 11:56 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:52 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:52 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:34 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:34 | 1 | LACRIMATION LEFT EYE |
| 10663 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-01-08 | 10:27 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-01-08 | 10:45 | 2 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10663 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-01-08 | 11:40 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:33 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:13 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:03 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:11 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:14 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:12 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:52 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10608 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-08-08 | 12:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:49 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 13:43 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10608 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:57 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:10 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION LEFT EYE |
| 10608 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-01-08 | 10:12 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:32 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:13 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10608 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 12:42 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:14 | 1 | SALIVATION |
| | | | | 04-09-08 | 12:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:03 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:12 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:21 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:48 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:57 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:53 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10628 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-01-08 | 10:14 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-01-08 | 10:31 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-01-08 | 11:01 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-01-08 | 11:01 | P | HYPOACTIVITY |
| | | | | 04-01-08 | 11:43 | P | HYPOACTIVITY |
| | | | | 04-02-08 | 12:07 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:16 | P | HINDLIMBS SPLAYED |
| | | | | 04-02-08 | 12:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:47 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:07 | P | HINDLIMBS SPLAYED |
| | | | | 04-03-08 | 12:08 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:26 | P | HYPOACTIVITY |
| | | | | 04-03-08 | 12:27 | P | BODY FLAT |
| | | | | 04-03-08 | 12:53 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 13:56 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:14 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:26 | P | PROSTRATE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10628 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:51 | P | PROSTRATE |
| | | | | 04-04-08 | 13:47 | P | PROSTRATE |
| | | | | 04-05-08 | 11:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:29 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:51 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 12:40 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 12:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:36 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:36 | P | HUNCHED POSTURE |
| | | | | 04-07-08 | 12:36 | P | WALKS ON TIPTOES |
| | | | | 04-07-08 | 13:37 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:43 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:16 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 13:38 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:50 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 13:00 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 12:32 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10628 | F | 1600 MG/KG/DAY | CARDIO-PULMONARY | 04-04-08 | 12:25 | P | RALES |
| 10628 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-01-08 | 10:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-01-08 | 10:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-01-08 | 11:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-01-08 | 11:01 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-01-08 | 11:42 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-01-08 | 11:42 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-02-08 | 12:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:07 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10628 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:46 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:46 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:26 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:26 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 13:56 | 3 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:56 | 3 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:14 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:14 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:25 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:25 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:47 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:16 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:16 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:59 | 1 | DRIED RED MATERIAL AROUND NOSE |
| | | | | 04-07-08 | 13:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:37 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:37 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:23 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:23 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:36 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:36 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10628 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-13-08 | 11:48 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:48 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:58 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:58 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:32 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:32 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:11 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:54 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:54 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:05 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:35 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:35 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:15 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:15 | 1 | LACRIMATION LEFT EYE |
| 10628 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-03-08 | 12:07 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 12:25 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 12:51 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 13:47 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:17 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:28 | 2 | DRIED RED MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:33 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:44 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 12:09 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:16 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:35 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:58 | 1 | DRIED RED MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:01 | 2 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10628 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 12:43 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:16 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:04 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:12 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:15 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:13 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:23 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:48 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:58 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:32 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:53 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 16:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 16:35 | 3 | SALIVATION |
| 10642 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-01-08 | 10:15 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-01-08 | 10:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:18 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:54 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:15 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:55 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:38 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:59 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:38 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:15 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 13:37 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 13:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 12:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10642 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:09 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:54 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:54 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:14 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:14 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:49 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:49 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:33 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:33 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:11 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:11 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:06 | 1 | LACRIMATION LEFT EYE |
| 10642 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-01-08 | 10:32 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-01-08 | 11:03 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-01-08 | 11:44 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-04-08 | 12:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:54 | 1 | WET RED MATERIAL AROUND MOUTH |
| 10621 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:09 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:18 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:49 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 13:58 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 — A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS — PAGE 56

SPONSOR:LYONDELLBASELL — INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10621 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:16 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:55 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:01 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:45 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 16:38 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10621 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 13:58 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 13:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:37 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:55 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:37 | 1 | LACRIMATION LEFT EYE |
| 10621 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-07-08 | 12:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:03 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:16 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:55 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:13 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10627 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:50 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10627 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:53 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:20 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:16 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:46 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 13:41 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:29 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10627 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 13:31 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 13:31 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:10 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 11:19 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 11:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:38 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:38 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:00 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:00 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:34 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:34 | 1 | LACRIMATION LEFT EYE |
| 10627 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-09-08 | 12:28 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:05 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10627 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 12:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10610 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:10 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:21 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:12 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:29 | P | WALKS ON TIPTOES |
| | | | | 04-03-08 | 12:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 14:00 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:53 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:46 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 13:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:30 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 13:02 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 11:51 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 13:13 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 16:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 17:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10610 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:29 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:29 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:56 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 14:00 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10610 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 14:00 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 11:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 12:43 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 12:43 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-06-08 | 12:14 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-06-08 | 12:14 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-06-08 | 13:00 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-06-08 | 13:00 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:20 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:20 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:03 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 12:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 12:19 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 12:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 13:39 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 13:39 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:42 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:42 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:01 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10610 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-12-08 | 13:01 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:38 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:38 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:51 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:00 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:00 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:35 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:35 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:56 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:39 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:39 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:15 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:15 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:27 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:27 | 1 | LACRIMATION LEFT EYE |
| 10610 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 12:06 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:17 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:24 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:00 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10610 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-15-08 | 12:15 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10639 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:14 | P | HINDLIMBS SPLAYED |
| | | | | 04-04-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:31 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:31 | P | HINDLIMBS SPLAYED |
| | | | | 04-05-08 | 11:54 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:21 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:41 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:06 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:17 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:30 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 12:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 13:14 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10639 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 13:33 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 13:33 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:13 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 12:57 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:57 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 14:00 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 14:00 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 13:51 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 13:51 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:54 | 2 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10639 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-05-08 | 11:54 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 12:51 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 12:51 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:21 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 12:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:42 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:42 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:18 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:18 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:00 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:00 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:35 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:36 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:14 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:14 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:28 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:28 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10639 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:36 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:47 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-07-08 | 12:41 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:06 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:19 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:07 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:53 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:18 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:25 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:16 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:28 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10668 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:22 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:54 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:14 | P | HINDLIMBS SPLAYED |
| | | | | 04-03-08 | 12:14 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:31 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:58 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:21 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:48 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:43 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:05 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10668 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:31 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:31 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:26 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10668 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-12-08 | 12:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:01 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 13:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 13:41 | 1 | LACRIMATION LEFT EYE |
| 10668 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:20 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-05-08 | 11:31 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:07 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:20 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:32 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:54 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:26 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:17 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10615 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-02-08 | 12:13 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-02-08 | 12:24 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:59 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 14:02 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:59 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:54 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 12:53 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:38 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:48 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 12:16 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10615 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-07-08 | 13:42 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:48 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:21 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:30 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:49 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 13:45 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:27 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 13:04 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 13:40 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 11:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 12:37 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 13:16 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 16:42 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 17:19 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10615 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-02-08 | 12:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-02-08 | 12:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:23 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:23 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-08-08 | 14:14 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-08-08 | 14:14 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 12:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 12:55 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 13:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 13:41 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10615 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-10-08 | 12:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 13:44 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 13:44 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:19 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:27 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:27 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:40 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:40 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:52 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:52 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:01 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:01 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:37 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:37 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:15 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:15 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:58 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:18 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:18 | 2 | LACRIMATION LEFT EYE |
| 10615 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 12:22 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:33 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10615 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-12-08 | 12:27 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:52 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:18 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10591 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:16 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:00 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:33 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:25 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:09 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:17 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:50 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:24 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:35 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:20 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:28 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 13:05 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 11:53 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 12:02 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 15:59 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 16:10 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 16:43 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 17:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-15-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-15-08 | 12:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-15-08 | 13:42 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-16-08 | 11:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10591 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-05-08 | 11:56 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10591 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-05-08 | 11:56 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 12:09 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:09 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:20 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:20 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:28 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:28 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:53 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:53 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:01 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:01 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 15:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 15:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:10 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:42 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:42 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:19 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:19 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 13:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 13:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 11:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 11:43 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10591 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-16-08 | 12:16 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 12:16 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 13:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 13:04 | 1 | LACRIMATION LEFT EYE |
| 10591 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-08-08 | 12:08 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:20 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:49 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:21 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:09 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:17 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:20 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:28 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:53 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:01 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 15:59 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 16:10 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:19 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:56 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 12:16 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10659 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:18 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 12:34 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:22 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:00 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:22 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:57 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:49 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 12:18 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10659 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-07-08 | 12:26 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:08 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:50 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:50 | P | BODY DRAGS |
| | | | | 04-09-08 | 12:22 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:57 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:57 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-12-08 | 12:21 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 12:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10659 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 12:22 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:22 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:44 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 13:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 13:43 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:21 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:39 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:39 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 13:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 13:43 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10659 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-16-08 | 11:45 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:57 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10611 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:21 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 14:05 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:24 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:00 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:57 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:48 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-07-08 | 13:45 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:45 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-08-08 | 12:09 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:22 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-08-08 | 12:50 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:50 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-07-08 | 12:26 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-09-08 | 12:23 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:33 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:33 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-09-08 | 12:57 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:57 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-10-08 | 12:11 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:18 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-10-08 | 12:18 | P | WALKS ON TIPTOES |
| | | | | 04-10-08 | 13:47 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:23 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:30 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 11:55 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 16:01 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-14-08 | 16:11 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10611 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-14-08 | 16:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-16-08 | 11:46 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10611 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-04-08 | 12:23 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:23 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 12:10 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:11 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:22 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:22 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:30 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:30 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:06 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:06 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 11:55 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 11:55 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:40 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:40 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:17 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:17 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:11 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:11 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:44 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 17:20 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 17:20 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:21 | 1 | LACRIMATION RIGHT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10611 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-15-08 | 12:21 | 1 | LACRIMATION LEFT EYE |
| 10611 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-11-08 | 12:24 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:30 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10707 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 13:03 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:24 | P | HINDLIMBS SPLAYED |
| | | | | 04-05-08 | 11:24 | P | HYPOACTIVITY |
| | | | | 04-05-08 | 11:35 | P | PROSTRATE |
| 10707 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:36 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:36 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-03-08 | 14:05 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 14:05 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-05-08 | 11:35 | 2 | WET CLEAR MATERIAL AROUND NOSE |
| 10707 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:34 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| 10620 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-03-08 | 12:37 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 13:04 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-03-08 | 14:06 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:26 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:02 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:25 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:36 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 12:00 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:41 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:41 | P | HINDLIMBS SPLAYED |
| | | | | 04-06-08 | 11:51 | P | PROSTRATE |
| | | | | 04-06-08 | 12:20 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 13:09 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:29 | P | BODY FLAT |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)
A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]



TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10620 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-07-08 | 12:29 | P | HINDLIMBS SPLAYED |
| | | | | 04-07-08 | 12:29 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:30 | P | BODY DRAGS |
| | | | | 04-07-08 | 12:49 | 3 | HYPOACTIVITY |
| | | | | 04-07-08 | 12:49 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:51 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-07-08 | 12:51 | P | IMPAIRED USE OF LEFT HINDLIMB |
| | | | | 04-07-08 | 13:09 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:10 | P | HINDLIMBS SPLAYED |
| | | | | 04-07-08 | 13:10 | P | HYPOACTIVITY |
| | | | | 04-07-08 | 13:46 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:09 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:23 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:51 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:51 | P | HINDLIMBS SPLAYED |
| | | | | 04-10-08 | 12:52 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 11:56 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10620 | F | 1600 MG/KG/DAY | BODY/INTEGUMENT | 04-08-08 | 14:17 | 1 | WET YELLOW MATERIAL UROGENITAL AREA |
| | | | | 04-16-08 | 11:58 | 1 | WET YELLOW MATERIAL UROGENITAL AREA |
| 10620 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-03-08 | 12:37 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-03-08 | 12:37 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-04-08 | 12:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-04-08 | 12:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-06-08 | 13:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-06-08 | 13:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:09 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:09 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:46 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:46 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10620 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-10-08 | 12:11 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:11 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:44 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:44 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:22 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:22 | 1 | LACRIMATION LEFT EYE |
| 10620 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-06-08 | 11:51 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 12:19 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:10 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-08-08 | 12:51 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-09-08 | 12:23 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:24 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:02 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:22 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:46 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10686 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-04-08 | 12:26 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 12:45 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-04-08 | 12:45 | P | IMPAIRED USE OF LEFT HINDLIMB |
| | | | | 04-04-08 | 13:03 | P | IMPAIRED USE OF RIGHT HINDLIMB |
| | | | | 04-04-08 | 13:03 | P | IMPAIRED USE OF LEFT HINDLIMB |
| | | | | 04-04-08 | 13:03 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-04-08 | 13:58 | 3 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:37 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10686 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-06-08 | 12:21 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:31 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:24 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-16-08 | 11:48 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10686 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-12-08 | 13:42 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:42 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:03 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:03 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:02 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:02 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:12 | 1 | LACRIMATION LEFT EYE |
| 10686 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10689 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-05-08 | 11:26 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:37 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:37 | P | HINDLIMBS SPLAYED |
| | | | | 04-05-08 | 12:01 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:43 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:31 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:53 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 13:12 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-08-08 | 12:25 | P | WALKS ON TIPTOES |
| | | | | 04-08-08 | 12:52 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:25 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:34 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 12:58 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-09-08 | 13:46 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A3 (POST-DOSING OBSERVATIONS)

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10689 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-10-08 | 12:13 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-10-08 | 12:19 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 12:39 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:25 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-13-08 | 11:57 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10689 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-05-08 | 12:58 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-05-08 | 12:58 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 12:31 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:31 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:12 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:12 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-07-08 | 13:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 13:47 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-08-08 | 14:18 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-08-08 | 14:18 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-09-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-09-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 12:13 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-10-08 | 12:13 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 12:25 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:25 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:04 | 2 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:04 | 2 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:41 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:41 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:19 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:19 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:13 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:13 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10689 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-14-08 | 16:45 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:45 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:24 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:24 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:36 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:36 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 13:45 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 13:45 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 13:07 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 13:07 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-17-08 | 12:47 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-17-08 | 12:47 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-18-08 | 12:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-18-08 | 12:43 | 1 | LACRIMATION LEFT EYE |
| 10689 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-10-08 | 12:19 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:27 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:39 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 11:56 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:03 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 16:13 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-14-08 | 16:45 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:23 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:36 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:48 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| 10704 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-05-08 | 11:27 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-05-08 | 11:38 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10704 | F | 1600 MG/KG/DAY | BEHAVIOR/CNS | 04-05-08 | 11:38 | P | HINDLIMBS SPLAYED |
| | | | | 04-05-08 | 12:02 | 2 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:44 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-06-08 | 11:53 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-07-08 | 12:32 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-11-08 | 13:02 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| | | | | 04-12-08 | 12:26 | 1 | ROCKS, LURCHES, OR SWAYS AS IT WALKS |
| 10704 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-07-08 | 12:32 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-07-08 | 12:32 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 12:14 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-10-08 | 12:14 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:26 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 12:26 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-12-08 | 13:43 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-12-08 | 13:43 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:04 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:04 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 12:42 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 12:42 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-13-08 | 13:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-13-08 | 13:21 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-14-08 | 16:14 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-14-08 | 16:14 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-15-08 | 12:59 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-15-08 | 12:59 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 11:50 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 11:50 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-16-08 | 12:21 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 12:21 | 1 | LACRIMATION LEFT EYE |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 03-31-08 TO 04-18-08

| ANIMAL | SEX | GROUP | CATEGORY | DATE | TIME | GRADE | OBSERVATIONS |
|---|---|---|---|---|---|---|---|
| | | | | POST-DOSING OBSERVATIONS | | | |
| 10704 | F | 1600 MG/KG/DAY | EYES/EARS/NOSE | 04-16-08 | 13:08 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-16-08 | 13:08 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-17-08 | 12:01 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-17-08 | 12:01 | 1 | LACRIMATION LEFT EYE |
| | | | | 04-17-08 | 12:48 | 1 | LACRIMATION RIGHT EYE |
| | | | | 04-17-08 | 12:48 | 1 | LACRIMATION LEFT EYE |
| 10704 | F | 1600 MG/KG/DAY | ORAL/DENTAL | 04-05-08 | 11:27 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:43 | 3 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 11:53 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-06-08 | 12:22 | 2 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-10-08 | 12:14 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 12:29 | 1 | WET RED MATERIAL AROUND MOUTH |
| | | | | 04-11-08 | 13:02 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-12-08 | 12:32 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-13-08 | 12:04 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-15-08 | 12:25 | 1 | WET CLEAR MATERIAL AROUND MOUTH |
| | | | | 04-16-08 | 11:50 | 1 | WET CLEAR MATERIAL AROUND MOUTH |

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE A4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | | |
| 10598 | G | 263. | 289. | 296. | 298. | 303. | 313. | 318. | 322. | 325. |
| 10602 | G | 281. | 306. | 316. | 325. | 325. | 332. | 348. | 346. | 354. |
| 10604 | G | 257. | 291. | 295. | 297. | 305. | 309. | 315. | 324. | 335. |
| 10607 | G | 237. | 271. | 273. | 276. | 279. | 286. | 290. | 293. | 299. |
| 10609 | G | 263. | 292. | 298. | 304. | 306. | 313. | 315. | 322. | 323. |
| 10612 | G | 237. | 266. | 270. | 271. | 272. | 274. | 285. | 286. | 293. |
| 10624 | G | 250. | 284. | 282. | 287. | 294. | 302. | 305. | 313. | 321. |
| 10626 | G | 245. | 272. | 274. | 277. | 280. | 287. | 295. | 301. | 307. |
| 10629 | G | 235. | 264. | 263. | 274. | 271. | 276. | 281. | 286. | 289. |
| 10632 | G | 261. | 304. | 306. | 313. | 320. | 324. | 329. | 334. | 344. |
| 10633 | G | 249. | 281. | 280. | 285. | 285. | 287. | 300. | 302. | 304. |
| 10635 | G | 249. | 278. | 272. | 276. | 289. | 289. | 291. | 299. | 301. |
| 10647 | G | 242. | 276. | 279. | 285. | 289. | 291. | 299. | 308. | 312. |
| 10649 | G | 254. | 287. | 291. | 292. | 297. | 301. | 308. | 306. | 312. |
| 10650 | G | 282. | 322. | 324. | 336. | 336. | 343. | 348. | 354. | 356. |
| 10652 | G | 234. | 272. | 272. | 275. | 284. | 291. | 295. | 298. | 305. |
| 10667 | G | 277. | 313. | 310. | 317. | 324. | 332. | 337. | 338. | 349. |
| 10671 | G | 244. | 268. | 266. | 268. | 272. | 276. | 283. | 289. | 295. |
| 10675 | G | 255. | 293. | 299. | 300. | 303. | 312. | 318. | 323. | 327. |
| 10697 | G | 264. | 306. | 306. | 311. | 315. | 324. | 329. | 337. | 337. |
| 10706 | G | 266. | 300. | 305. | 311. | 319. | 322. | 327. | 334. | 345. |
| 10711 | G | 241. | 270. | 272. | 269. | 277. | 281. | 292. | 296. | 299. |
| MEAN | | 254. | 287. | 289. | 293. | 298. | 303. | 309. | 314. | 320. |
| S.D. | | 14.5 | 16.5 | 17.8 | 19.6 | 19.5 | 20.6 | 20.4 | 20.3 | 21.2 |
| S.E. | | 3.1 | 3.5 | 3.8 | 4.2 | 4.2 | 4.4 | 4.4 | 4.3 | 4.5 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | |
| 10598 | G | 334. | 348. | 356. | 378. | 400. | 422. | 436. | SCHEDULED NECROPSY DAY 20 |
| 10602 | G | 362. | 376. | 386. | 395. | 417. | 438. | 450. | SCHEDULED NECROPSY DAY 20 |
| 10604 | G | 339. | 345. | 363. | 378. | 399. | 412. | 434. | SCHEDULED NECROPSY DAY 20 |
| 10607 | G | 303. | 308. | 323. | 331. | 344. | 357. | 371. | SCHEDULED NECROPSY DAY 20 |
| 10609 | G | 332. | 338. | 348. | 365. | 372. | 391. | 404. | SCHEDULED NECROPSY DAY 20 |
| 10612 | G | 301. | 310. | 325. | 333. | 356. | 372. | 383. | SCHEDULED NECROPSY DAY 20 |
| 10624 | G | 323. | 332. | 343. | 356. | 371. | 379. | 395. | SCHEDULED NECROPSY DAY 20 |
| 10626 | G | 315. | 326. | 333. | 348. | 367. | 388. | 402. | SCHEDULED NECROPSY DAY 20 |
| 10629 | G | 299. | 306. | 315. | 326. | 337. | 356. | 367. | SCHEDULED NECROPSY DAY 20 |
| 10632 | G | 348. | 360. | 368. | 383. | 401. | 425. | 440. | SCHEDULED NECROPSY DAY 20 |
| 10633 | G | 308. | 311. | 321. | 334. | 358. | 374. | 395. | SCHEDULED NECROPSY DAY 20 |
| 10635 | G | 310. | 317. | 325. | 341. | 363. | 385. | 391. | SCHEDULED NECROPSY DAY 20 |
| 10647 | G | 317. | 327. | 335. | 350. | 364. | 372. | 386. | SCHEDULED NECROPSY DAY 20 |
| 10649 | G | 316. | 322. | 334. | 350. | 366. | 381. | 392. | SCHEDULED NECROPSY DAY 20 |
| 10650 | G | 363. | 369. | 373. | 391. | 415. | 435. | 449. | SCHEDULED NECROPSY DAY 20 |
| 10652 | G | 309. | 316. | 327. | 338. | 357. | 377. | 389. | SCHEDULED NECROPSY DAY 20 |
| 10667 | G | 354. | 368. | 374. | 387. | 405. | 425. | 440. | SCHEDULED NECROPSY DAY 20 |
| 10671 | G | 302. | 310. | 315. | 333. | 350. | 361. | 378. | SCHEDULED NECROPSY DAY 20 |
| 10675 | G | 332. | 344. | 358. | 375. | 397. | 417. | 438. | SCHEDULED NECROPSY DAY 20 |
| 10697 | G | 355. | 361. | 370. | 381. | 395. | 401. | 417. | SCHEDULED NECROPSY DAY 20 |
| 10706 | G | 342. | 356. | 367. | 385. | 403. | 414. | 434. | SCHEDULED NECROPSY DAY 20 |
| 10711 | G | 305. | 312. | 327. | 337. | 351. | 368. | 386. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 326. | 335. | 345. | 359. | 377. | 393. | 408. | |
| S.D. | | 21.2 | 22.8 | 22.1 | 23.1 | 24.6 | 26.2 | 27.1 | |
| S.E. | | 4.5 | 4.9 | 4.7 | 4.9 | 5.3 | 5.6 | 5.8 | |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY 0 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | | |
| 10589 | G | 253. | 281. | 286. | 283. | 290. | 297. | 304. | 305. | 311. |
| 10596 | G | 241. | 272. | 275. | 280. | 287. | 294. | 301. | 305. | 312. |
| 10600 | G | 266. | 288. | 288. | 289. | 294. | 297. | 301. | 308. | 310. |
| 10603 | G | 239. | 262. | 266. | 269. | 275. | 276. | 286. | 285. | 293. |
| 10618 | G | 262. | 289. | 288. | 290. | 297. | 299. | 308. | 316. | 316. |
| 10619 | G | 281. | 307. | 307. | 312. | 315. | 320. | 326. | 335. | 340. |
| 10623 | G | 255. | 301. | 305. | 309. | 319. | 322. | 330. | 334. | 341. |
| 10625 | G | 254. | 289. | 286. | 287. | 286. | 292. | 303. | 307. | 310. |
| 10636 | G | 257. | 301. | 301. | 307. | 309. | 318. | 319. | 329. | 337. |
| 10651 | G | 266. | 304. | 310. | 315. | 323. | 332. | 332. | 341. | 339. |
| 10655 | G | 232. | 266. | 268. | 270. | 268. | 270. | 275. | 283. | 286. |
| 10657 | G | 248. | 281. | 278. | 287. | 289. | 297. | 304. | 305. | 303. |
| 10661 | G | 250. | 276. | 281. | 283. | 289. | 290. | 295. | 302. | 308. |
| 10670 | G | 274. | 305. | 306. | 311. | 315. | 321. | 331. | 339. | 346. |
| 10688 | G | 247. | 272. | 267. | 271. | 271. | 279. | 279. | 286. | 290. |
| 10691 | G | 270. | 306. | 303. | 310. | 311. | 316. | 324. | 329. | 334. |
| 10696 | G | 271. | 299. | 296. | 297. | 303. | 309. | 324. | 322. | 328. |
| 10699 | G | 236. | 254. | 249. | 256. | 259. | 262. | 270. | 278. | 282. |
| 10703 | G | 245. | 275. | 279. | 280. | 284. | 287. | 292. | 299. | 302. |
| 10705 | G | 254. | 285. | 290. | 288. | 295. | 303. | 308. | 314. | 316. |
| 10709 | G | 259. | 284. | 286. | 289. | 289. | 296. | 300. | 308. | 313. |
| 10710 | G | 236. | 256. | 257. | 258. | 264. | 264. | 271. | 276. | 282. |
| MEAN | | 254. | 284. | 285. | 288. | 292. | 297. | 304. | 309. | 314. |
| S.D. | | 13.4 | 16.4 | 16.8 | 17.3 | 18.1 | 19.4 | 19.5 | 19.9 | 20.0 |
| S.E. | | 2.9 | 3.5 | 3.6 | 3.7 | 3.9 | 4.1 | 4.2 | 4.2 | 4.3 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 4

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | |
| 10589 | G | 319. | 324. | 342. | 356. | 371. | 394. | 413. | SCHEDULED NECROPSY DAY 20 |
| 10596 | G | 321. | 334. | 344. | 362. | 378. | 400. | 424. | SCHEDULED NECROPSY DAY 20 |
| 10600 | G | 318. | 323. | 337. | 349. | 367. | 383. | 399. | SCHEDULED NECROPSY DAY 20 |
| 10603 | G | 303. | 311. | 326. | 338. | 356. | 374. | 388. | SCHEDULED NECROPSY DAY 20 |
| 10618 | G | 325. | 332. | 340. | 350. | 364. | 379. | 392. | SCHEDULED NECROPSY DAY 20 |
| 10619 | G | 351. | 351. | 365. | 376. | 396. | 408. | 431. | SCHEDULED NECROPSY DAY 20 |
| 10623 | G | 356. | 366. | 387. | 393. | 430. | 446. | 469. | SCHEDULED NECROPSY DAY 20 |
| 10625 | G | 316. | 323. | 339. | 349. | 365. | 376. | 392. | SCHEDULED NECROPSY DAY 20 |
| 10636 | G | 343. | 357. | 359. | 383. | 402. | 417. | 439. | SCHEDULED NECROPSY DAY 20 |
| 10651 | G | 352. | 362. | 371. | 386. | 409. | 429. | 454. | SCHEDULED NECROPSY DAY 20 |
| 10655 | G | 292. | 300. | 311. | 323. | 337. | 352. | 361. | SCHEDULED NECROPSY DAY 20 |
| 10657 | G | 312. | 321. | 330. | 345. | 357. | 371. | 389. | SCHEDULED NECROPSY DAY 20 |
| 10661 | G | 310. | 315. | 325. | 334. | 354. | 372. | 389. | SCHEDULED NECROPSY DAY 20 |
| 10670 | G | 352. | 361. | 375. | 397. | 414. | 437. | 451. | SCHEDULED NECROPSY DAY 20 |
| 10688 | G | 296. | 306. | 312. | 327. | 346. | 364. | 381. | SCHEDULED NECROPSY DAY 20 |
| 10691 | G | 338. | 349. | 366. | 377. | 398. | 422. | 437. | SCHEDULED NECROPSY DAY 20 |
| 10696 | G | 333. | 344. | 357. | 369. | 382. | 403. | 422. | SCHEDULED NECROPSY DAY 20 |
| 10699 | G | 285. | 292. | 303. | 316. | 327. | 339. | 354. | SCHEDULED NECROPSY DAY 20 |
| 10703 | G | 307. | 318. | 323. | 337. | 352. | 365. | 381. | SCHEDULED NECROPSY DAY 20 |
| 10705 | G | 324. | 334. | 344. | 358. | 375. | 390. | 411. | SCHEDULED NECROPSY DAY 20 |
| 10709 | G | 317. | 330. | 341. | 336. | 361. | 378. | 396. | SCHEDULED NECROPSY DAY 20 |
| 10710 | G | 284. | 295. | 302. | 319. | 329. | 341. | 360. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 321. | 329. | 341. | 354. | 371. | 388. | 406. | |
| S.D. | | 21.7 | 22.0 | 23.5 | 24.2 | 27.6 | 29.6 | 31.7 | |
| S.E. | | 4.6 | 4.7 | 5.0 | 5.2 | 5.9 | 6.3 | 6.8 | |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 5

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | | |
| 10584 | G | 263. | 303. | 304. | 303. | 310. | 318. | 322. | 327. | 330. |
| 10586 | G | 259. | 296. | 290. | 291. | 294. | 299. | 303. | 311. | 316. |
| 10588 | G | 255. | 296. | 299. | 301. | 301. | 302. | 310. | 318. | 331. |
| 10592 | G | 243. | 268. | 264. | 257. | 261. | 267. | 273. | 276. | 282. |
| 10594 | G | 232. | 269. | 268. | 275. | 274. | 278. | 285. | 288. | 294. |
| 10601 | G | 251. | 285. | 287. | 281. | 289. | 292. | 298. | 301. | 309. |
| 10605 | G | 233. | 264. | 264. | 268. | 270. | 275. | 279. | 292. | 296. |
| 10616 | G | 247. | 287. | 288. | 282. | 292. | 293. | 299. | 308. | 316. |
| 10617 | G | 268. | 311. | 305. | 311. | 313. | 317. | 323. | 330. | 329. |
| 10631 | G | 248. | 283. | 281. | 287. | 288. | 295. | 301. | 307. | 311. |
| 10637 | G | 221. | 259. | 262. | 261. | 265. | 266. | 272. | 277. | 286. |
| 10641 | G | 241. | 271. | 267. | 270. | 272. | 275. | 283. | 289. | 302. |
| 10644 | G | 240. | 272. | 272. | 273. | 277. | 281. | 280. | 289. | 297. |
| 10648 | G | 270. | 317. | 321. | 319. | 333. | 334. | 341. | 350. | 355. |
| 10656 | G | 265. | 310. | 309. | 314. | 325. | 333. | 338. | 342. | 352. |
| 10664 | G | 262. | 306. | 304. | 306. | 305. | 314. | 323. | 333. | 338. |
| 10665 | G | 282. | 310. | 306. | 307. | 316. | 318. | 326. | 331. | 340. |
| 10666 | G | 255. | 281. | 276. | 278. | 280. | 281. | 288. | 293. | 299. |
| 10673 | G | 274. | 317. | 311. | 313. | 314. | 318. | 329. | 336. | 337. |
| 10679 | G | 243. | 276. | 276. | 279. | 281. | 284. | 292. | 296. | 298. |
| 10680 | G | 242. | 286. | 278. | 284. | 283. | 290. | 296. | 299. | 307. |
| 10700 | G | 249. | 274. | 274. | 272. | 274. | 280. | 283. | 286. | 292. |
| MEAN | | 252. | 288. | 287. | 288. | 292. | 296. | 302. | 308. | 314. |
| S.D. | | 15.0 | 18.3 | 18.0 | 18.5 | 20.3 | 20.6 | 21.4 | 22.0 | 21.5 |
| S.E. | | 3.2 | 3.9 | 3.8 | 4.0 | 4.3 | 4.4 | 4.6 | 4.7 | 4.6 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | |
| 10584 | G | 342. | 350. | 359. | 372. | 381. | 400. | 415. | SCHEDULED NECROPSY DAY 20 |
| 10586 | G | 319. | 326. | 342. | 351. | 364. | 376. | 391. | SCHEDULED NECROPSY DAY 20 |
| 10588 | G | 339. | 347. | 356. | 378. | 390. | 406. | 419. | SCHEDULED NECROPSY DAY 20 |
| 10592 | G | 291. | 302. | 312. | 326. | 341. | 356. | 375. | SCHEDULED NECROPSY DAY 20 |
| 10594 | G | 299. | 304. | 316. | 324. | 343. | 352. | 369. | SCHEDULED NECROPSY DAY 20 |
| 10601 | G | 319. | 326. | 336. | 350. | 364. | 377. | 388. | SCHEDULED NECROPSY DAY 20 |
| 10605 | G | 303. | 313. | 318. | 332. | 349. | 360. | 374. | SCHEDULED NECROPSY DAY 20 |
| 10616 | G | 320. | 332. | 341. | 352. | 370. | 389. | 406. | SCHEDULED NECROPSY DAY 20 |
| 10617 | G | 337. | 344. | 355. | 366. | 383. | 399. | 409. | SCHEDULED NECROPSY DAY 20 |
| 10631 | G | 316. | 325. | 338. | 355. | 369. | 383. | 395. | SCHEDULED NECROPSY DAY 20 |
| 10637 | G | 291. | 297. | 303. | 322. | 337. | 356. | 364. | SCHEDULED NECROPSY DAY 20 |
| 10641 | G | 303. | 311. | 322. | 335. | 350. | 359. | 379. | SCHEDULED NECROPSY DAY 20 |
| 10644 | G | 301. | 312. | 315. | 333. | 347. | 364. | 376. | SCHEDULED NECROPSY DAY 20 |
| 10648 | G | 360. | 371. | 379. | 402. | 412. | 431. | 452. | SCHEDULED NECROPSY DAY 20 |
| 10656 | G | 355. | 365. | 382. | 395. | 420. | 433. | 455. | SCHEDULED NECROPSY DAY 20 |
| 10664 | G | 337. | 346. | 359. | 376. | 395. | 416. | 439. | SCHEDULED NECROPSY DAY 20 |
| 10665 | G | 343. | 345. | 362. | 369. | 388. | 403. | 425. | SCHEDULED NECROPSY DAY 20 |
| 10666 | G | 305. | 312. | 327. | 338. | 358. | 368. | 386. | SCHEDULED NECROPSY DAY 20 |
| 10673 | G | 345. | 354. | 364. | 380. | 396. | 418. | 434. | SCHEDULED NECROPSY DAY 20 |
| 10679 | G | 301. | 315. | 314. | 340. | 354. | 369. | 386. | SCHEDULED NECROPSY DAY 20 |
| 10680 | G | 311. | 320. | 328. | 338. | 357. | 371. | 388. | SCHEDULED NECROPSY DAY 20 |
| 10700 | G | 300. | 310. | 321. | 330. | 346. | 359. | 374. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 320. | 329. | 339. | 353. | 369. | 384. | 400. | |
| S.D. | | 21.3 | 21.2 | 22.9 | 23.6 | 23.7 | 25.6 | 27.4 | |
| S.E. | | 4.5 | 4.5 | 4.9 | 5.0 | 5.1 | 5.5 | 5.8 | |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | |
| 10582 | G | 253. | 288. | 287. | 289. | 289. | 296. | 300. | 306. | 309. |
| 10583 | G | 282. | 314. | 317. | 324. | 329. | 326. | 338. | 351. | 351. |
| 10585 | G | 264. | 294. | 298. | 300. | 298. | 309. | 313. | 319. | 328. |
| 10590 | G | 243. | 270. | 268. | 266. | 267. | 269. | 275. | 277. | 280. |
| 10595 | G | 255. | 287. | 288. | 285. | 289. | 287. | 296. | 301. | 309. |
| 10597 | G | 266. | 312. | 311. | 302. | 309. | 309. | 316. | 324. | 324. |
| 10599 | G | 273. | 308. | 318. | 316. | 315. | 329. | 336. | 338. | 338. |
| 10606 | G | 247. | 279. | 280. | 285. | 286. | 291. | 300. | 304. | 312. |
| 10630 | G | 266. | 303. | 297. | 302. | 308. | 312. | 321. | 331. | 340. |
| 10643 | G | 240. | 264. | 261. | 264. | 271. | 274. | 279. | 289. | 300. |
| 10658 | G | 247. | 271. | 267. | 264. | 263. | 271. | 278. | 282. | 284. |
| 10669 | G | 252. | 272. | 277. | 278. | 281. | 286. | 291. | 297. | 304. |
| 10672 | G | 225. | 266. | 262. | 263. | 265. | 272. | 282. | 284. | 287. |
| 10674 | G | 250. | 282. | 279. | 279. | 281. | 281. | 289. | 291. | 294. |
| 10676 | G | 286. | 312. | 309. | 316. | 319. | 318. | 324. | 329. | 333. |
| 10678 | G | 230. | 261. | 260. | 261. | 263. | 267. | 269. | 276. | 280. |
| 10681 | G | 240. | 270. | 271. | 272. | 276. | 279. | 287. | 289. | 289. |
| 10685 | G | 256. | 289. | 287. | 287. | 290. | 291. | 306. | 313. | 319. |
| 10687 | G | 277. | 305. | 302. | 306. | 305. | 312. | 319. | 322. | 331. |
| 10692 | G | 246. | 287. | 282. | 290. | 294. | 301. | 302. | 310. | 318. |
| 10694 | G | 234. | 262. | 254. | 256. | 254. | 260. | 268. | 269. | 276. |
| 10708 | G | 261. | 277. | 275. | 276. | 293. | 290. | 295. | 300. | 314. |
| MEAN | | 254. | 285. | 284. | 286. | 288. | 292. | 299. | 305. | 310. |
| S.D. | | 16.4 | 17.6 | 19.1 | 19.8 | 20.2 | 20.0 | 20.5 | 21.9 | 21.8 |
| S.E. | | 3.5 | 3.7 | 4.1 | 4.2 | 4.3 | 4.3 | 4.4 | 4.7 | 4.7 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | |
| 10582 | G | 312. | 323. | 335. | 351. | 366. | 373. | 392. | SCHEDULED NECROPSY DAY 20 |
| 10583 | G | 359. | 373. | 378. | 397. | 408. | 424. | 441. | SCHEDULED NECROPSY DAY 20 |
| 10585 | G | 333. | 343. | 352. | 366. | 381. | 395. | 413. | SCHEDULED NECROPSY DAY 20 |
| 10590 | G | 289. | 295. | 303. | 322. | 336. | 347. | 364. | SCHEDULED NECROPSY DAY 20 |
| 10595 | G | 315. | 317. | 329. | 343. | 359. | 376. | 388. | SCHEDULED NECROPSY DAY 20 |
| 10597 | G | 330. | 334. | 356. | 366. | 381. | 398. | 409. | SCHEDULED NECROPSY DAY 20 |
| 10599 | G | 343. | 358. | 365. | 384. | 406. | 415. | 438. | SCHEDULED NECROPSY DAY 20 |
| 10606 | G | 315. | 325. | 337. | 353. | 370. | 385. | 401. | SCHEDULED NECROPSY DAY 20 |
| 10630 | G | 342. | 354. | 366. | 382. | 396. | 412. | 428. | SCHEDULED NECROPSY DAY 20 |
| 10643 | G | 301. | 305. | 319. | 334. | 353. | 367. | 376. | SCHEDULED NECROPSY DAY 20 |
| 10658 | G | 293. | 297. | 308. | 324. | 337. | 348. | 364. | SCHEDULED NECROPSY DAY 20 |
| 10669 | G | 308. | 314. | 324. | 334. | 348. | 367. | 383. | SCHEDULED NECROPSY DAY 20 |
| 10672 | G | 295. | 299. | 312. | 324. | 335. | 354. | 370. | SCHEDULED NECROPSY DAY 20 |
| 10674 | G | 298. | 301. | 314. | 328. | 342. | 353. | 369. | SCHEDULED NECROPSY DAY 20 |
| 10676 | G | 341. | 347. | 360. | 374. | 391. | 401. | 417. | SCHEDULED NECROPSY DAY 20 |
| 10678 | G | 289. | 296. | 305. | 317. | 333. | 348. | 368. | SCHEDULED NECROPSY DAY 20 |
| 10681 | G | 301. | 303. | 312. | 316. | 333. | 349. | 360. | SCHEDULED NECROPSY DAY 20 |
| 10685 | G | 328. | 329. | 344. | 360. | 379. | 398. | 416. | SCHEDULED NECROPSY DAY 20 |
| 10687 | G | 339. | 344. | 352. | 365. | 386. | 406. | 424. | SCHEDULED NECROPSY DAY 20 |
| 10692 | G | 324. | 334. | 351. | 365. | 384. | 391. | 408. | SCHEDULED NECROPSY DAY 20 |
| 10694 | G | 284. | 291. | 307. | 318. | 330. | 340. | 355. | SCHEDULED NECROPSY DAY 20 |
| 10708 | G | 315. | 322. | 330. | 347. | 360. | 386. | 405. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 316. | 323. | 335. | 349. | 364. | 379. | 395. | |
| S.D. | | 21.2 | 23.4 | 23.0 | 24.4 | 25.4 | 25.7 | 26.7 | |
| S.E. | | 4.5 | 5.0 | 4.9 | 5.2 | 5.4 | 5.5 | 5.7 | |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A4

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 9

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | |
| 10591 | G | 283. | 336. | 329. | 329. | 330. | 326. | 329. | 338. | 343. |
| 10593 | G | 274. | 300. | 297. | 296. | 297. | 301. | 303. | 307. | 308. |
| 10608 | G | 251. | 280. | 283. | 279. | 283. | 285. | 297. | 298. | 307. |
| 10610 | G | 246. | 275. | 264. | 267. | 267. | 270. | 283. | 287. | 290. |
| 10611 | G | 255. | 291. | 283. | 281. | 283. | 284. | 287. | 291. | 297. |
| 10613 | G | 261. | 292. | 289. | 291. | 299. | 306. | 312. | 316. | 327. |
| 10615 | G | 261. | 297. | 300. | 302. | 303. | 310. | 315. | 324. | 330. |
| 10620 | G | 234. | 262. | 256. | 261. | 259. | 262. | 274. | 275. | 277. |
| 10621 | G | 238. | 265. | 262. | 259. | 262. | 266. | 269. | 278. | 284. |
| 10627 | G | 240. | 278. | 272. | 279. | 276. | 277. | 284. | 291. | 294. |
| 10628 | G | 236. | 260. | 248. | 258. | 259. | 268. | 280. | 285. | 294. |
| 10639 | G | 247. | 282. | 276. | 282. | 279. | 285. | 291. | 298. | 307. |
| 10640 | G | 266. | 307. | 305. | 307. | 314. | 324. | 330. | 336. | 341. |
| 10642 | G | 226. | 271. | 257. | 256. | 264. | 272. | 279. | 287. | 292. |
| 10646 | G | 235. | 267. | 270. | 268. | 269. | 270. | 270. | 279. | 282. |
| 10659 | G | 272. | 301. | 300. | 298. | 300. | 303. | 312. | 315. | 319. |
| 10663 | G | 259. | 304. | 289. | 294. | 303. | 307. | 319. | 322. | 336. |
| 10668 | G | 253. | 292. | 281. | 287. | 288. | 261. | 264. | 286. | 290. |
| 10686 | G | 258. | 293. | 284. | 278. | 275. | 276. | 279. | 284. | 292. |
| 10689 | G | 263. | 287. | 286. | 281. | 288. | 293. | 302. | 310. | 312. |
| 10704 | G | 240. | 263. | 264. | 259. | 263. | 269. | 276. | 275. | 278. |
| 10707 | G | 251. | 272. | 269. | 270. | NA | NA | NA | NA | NA |
| MEAN | | 252. | 285. | 280. | 281. | 284. | 286. | 293. | 299. | 305. |
| S.D. | | 14.7 | 18.5 | 19.0 | 18.6 | 19.6 | 20.2 | 20.2 | 19.7 | 20.8 |
| S.E. | | 3.1 | 3.9 | 4.1 | 4.0 | 4.3 | 4.4 | 4.4 | 4.3 | 4.5 |
| N | | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

| | PREGNANCY STATUS | DAY 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | |
| 10591 | G | 349. | 355. | 370. | 382. | 387. | 407. | 413. | SCHEDULED NECROPSY DAY 20 |
| 10593 | G | 317. | 328. | 338. | 352. | 371. | 386. | 404. | SCHEDULED NECROPSY DAY 20 |
| 10608 | G | 311. | 323. | 339. | 356. | 373. | 392. | 408. | SCHEDULED NECROPSY DAY 20 |
| 10610 | G | 299. | 304. | 322. | 329. | 353. | 364. | 383. | SCHEDULED NECROPSY DAY 20 |
| 10611 | G | 299. | 302. | 315. | 325. | 341. | 353. | 367. | SCHEDULED NECROPSY DAY 20 |
| 10613 | G | 333. | 338. | 343. | 360. | 378. | 394. | 403. | SCHEDULED NECROPSY DAY 20 |
| 10615 | G | 336. | 348. | 363. | 375. | 394. | 410. | 427. | SCHEDULED NECROPSY DAY 20 |
| 10620 | G | 282. | 287. | 288. | 302. | 308. | 324. | 339. | SCHEDULED NECROPSY DAY 20 |
| 10621 | G | 289. | 298. | 311. | 324. | 340. | 357. | 372. | SCHEDULED NECROPSY DAY 20 |
| 10627 | G | 296. | 305. | 314. | 331. | 348. | 356. | 378. | SCHEDULED NECROPSY DAY 20 |
| 10628 | G | 295. | 301. | 307. | 317. | 330. | 344. | 349. | SCHEDULED NECROPSY DAY 20 |
| 10639 | G | 310. | 317. | 332. | 336. | 352. | 367. | 382. | SCHEDULED NECROPSY DAY 20 |
| 10640 | G | 352. | 358. | 369. | 380. | 397. | 414. | 434. | SCHEDULED NECROPSY DAY 20 |
| 10642 | G | 295. | 302. | 312. | 327. | 338. | 352. | 366. | SCHEDULED NECROPSY DAY 20 |
| 10646 | G | 292. | 297. | 300. | 312. | 330. | 342. | 358. | SCHEDULED NECROPSY DAY 20 |
| 10659 | G | 323. | 331. | 342. | 359. | 373. | 391. | 399. | SCHEDULED NECROPSY DAY 20 |
| 10663 | G | 342. | 353. | 360. | 373. | 392. | 410. | 433. | SCHEDULED NECROPSY DAY 20 |
| 10668 | G | 296. | 303. | 311. | 323. | 339. | 359. | 375. | SCHEDULED NECROPSY DAY 20 |
| 10686 | G | 297. | 301. | 315. | 329. | 345. | 360. | 376. | SCHEDULED NECROPSY DAY 20 |
| 10689 | G | 319. | 328. | 342. | 354. | 368. | 388. | 407. | SCHEDULED NECROPSY DAY 20 |
| 10704 | G | 284. | 297. | 308. | 320. | 334. | 350. | 362. | SCHEDULED NECROPSY DAY 20 |
| 10707 | G | NA | NA | NA | NA | NA | NA | NA | GRAVID, DIED DAY 8 |
| MEAN | | 310. | 318. | 329. | 341. | 357. | 372. | 387. | |
| S.D. | | 21.6 | 22.1 | 23.6 | 23.9 | 24.7 | 26.2 | 27.2 | |
| S.E. | | 4.7 | 4.8 | 5.2 | 5.2 | 5.4 | 5.7 | 5.9 | |
| N | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | | |
| 10598 | G | 26. | 7. | 2. | 5. | 10. | 5. | 4. | 3. | 9. |
| 10602 | G | 25. | 10. | 9. | 0. | 7. | 16. | -2. | 8. | 8. |
| 10604 | G | 34. | 4. | 2. | 8. | 4. | 6. | 9. | 11. | 4. |
| 10607 | G | 34. | 2. | 3. | 3. | 7. | 4. | 3. | 6. | 4. |
| 10609 | G | 29. | 6. | 6. | 2. | 7. | 2. | 7. | 1. | 9. |
| 10612 | G | 29. | 4. | 1. | 1. | 2. | 11. | 1. | 7. | 8. |
| 10624 | G | 34. | -2. | 5. | 7. | 8. | 3. | 8. | 8. | 2. |
| 10626 | G | 27. | 2. | 3. | 3. | 7. | 8. | 6. | 6. | 8. |
| 10629 | G | 29. | -1. | 11. | -3. | 5. | 5. | 5. | 3. | 10. |
| 10632 | G | 43. | 2. | 7. | 7. | 4. | 5. | 5. | 10. | 4. |
| 10633 | G | 32. | -1. | 5. | 0. | 2. | 13. | 2. | 2. | 4. |
| 10635 | G | 29. | -6. | 4. | 13. | 0. | 2. | 8. | 2. | 9. |
| 10647 | G | 34. | 3. | 6. | 4. | 2. | 8. | 9. | 4. | 5. |
| 10649 | G | 33. | 4. | 1. | 5. | 4. | 7. | -2. | 6. | 4. |
| 10650 | G | 40. | 2. | 12. | 0. | 7. | 5. | 6. | 2. | 7. |
| 10652 | G | 38. | 0. | 3. | 9. | 7. | 4. | 3. | 7. | 4. |
| 10667 | G | 36. | -3. | 7. | 7. | 8. | 5. | 1. | 11. | 5. |
| 10671 | G | 24. | -2. | 2. | 4. | 4. | 7. | 6. | 6. | 7. |
| 10675 | G | 38. | 6. | 1. | 3. | 9. | 6. | 5. | 4. | 5. |
| 10697 | G | 42. | 0. | 5. | 4. | 9. | 5. | 8. | 0. | 18. |
| 10706 | G | 34. | 5. | 6. | 8. | 3. | 5. | 7. | 11. | -3. |
| 10711 | G | 29. | 2. | -3. | 8. | 4. | 11. | 4. | 3. | 6. |
| MEAN | | 33. | 2. | 4. | 4. | 5. | 7. | 5. | 6. | 6. |
| S.D. | | 5.4 | 3.7 | 3.5 | 3.7 | 2.7 | 3.5 | 3.2 | 3.4 | 3.9 |
| S.E. | | 1.1 | 0.8 | 0.7 | 0.8 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 2

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | | |
| 10598 | G | 14. | 8. | 22. | 22. | 22. | 14. | 14. | 19. | 26. |
| 10602 | G | 14. | 10. | 9. | 22. | 21. | 12. | 19. | 21. | 30. |
| 10604 | G | 6. | 18. | 15. | 21. | 13. | 22. | 14. | 19. | 21. |
| 10607 | G | 5. | 15. | 8. | 13. | 13. | 14. | 8. | 14. | 15. |
| 10609 | G | 6. | 10. | 17. | 7. | 19. | 13. | 14. | 16. | 16. |
| 10612 | G | 9. | 15. | 8. | 23. | 16. | 11. | 6. | 14. | 24. |
| 10624 | G | 9. | 11. | 13. | 15. | 8. | 16. | 10. | 19. | 19. |
| 10626 | G | 11. | 7. | 15. | 19. | 21. | 14. | 8. | 21. | 25. |
| 10629 | G | 7. | 9. | 11. | 11. | 19. | 11. | 7. | 15. | 20. |
| 10632 | G | 12. | 8. | 15. | 18. | 24. | 15. | 16. | 14. | 26. |
| 10633 | G | 3. | 10. | 13. | 24. | 16. | 21. | 4. | 17. | 9. |
| 10635 | G | 7. | 8. | 16. | 22. | 22. | 6. | 11. | 10. | 18. |
| 10647 | G | 10. | 8. | 15. | 14. | 8. | 14. | 13. | 19. | 19. |
| 10649 | G | 6. | 12. | 16. | 16. | 15. | 11. | 10. | 9. | 16. |
| 10650 | G | 6. | 4. | 18. | 24. | 20. | 14. | 14. | 18. | 15. |
| 10652 | G | 7. | 11. | 11. | 19. | 20. | 12. | 12. | 14. | 18. |
| 10667 | G | 14. | 6. | 13. | 18. | 20. | 15. | 11. | 14. | 30. |
| 10671 | G | 8. | 5. | 18. | 17. | 11. | 17. | 4. | 17. | 21. |
| 10675 | G | 12. | 14. | 17. | 22. | 20. | 21. | 10. | 20. | 21. |
| 10697 | G | 6. | 9. | 11. | 14. | 6. | 16. | 9. | 22. | 24. |
| 10706 | G | 14. | 11. | 18. | 18. | 11. | 20. | 19. | 15. | 22. |
| 10711 | G | 7. | 15. | 10. | 14. | 17. | 18. | 7. | 19. | 16. |
| MEAN | | 9. | 10. | 14. | 18. | 16. | 15. | 11. | 17. | 21. |
| S.D. | | 3.4 | 3.6 | 3.7 | 4.5 | 5.2 | 3.9 | 4.2 | 3.5 | 5.2 |
| S.E. | | 0.7 | 0.8 | 0.8 | 1.0 | 1.1 | 0.8 | 0.9 | 0.7 | 1.1 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | |
| 10598 | G | 88. | 147. | SCHEDULED NECROPSY DAY 20 |
| 10602 | G | 74. | 144. | SCHEDULED NECROPSY DAY 20 |
| 10604 | G | 89. | 143. | SCHEDULED NECROPSY DAY 20 |
| 10607 | G | 63. | 100. | SCHEDULED NECROPSY DAY 20 |
| 10609 | G | 66. | 112. | SCHEDULED NECROPSY DAY 20 |
| 10612 | G | 73. | 117. | SCHEDULED NECROPSY DAY 20 |
| 10624 | G | 63. | 111. | SCHEDULED NECROPSY DAY 20 |
| 10626 | G | 76. | 130. | SCHEDULED NECROPSY DAY 20 |
| 10629 | G | 61. | 103. | SCHEDULED NECROPSY DAY 20 |
| 10632 | G | 80. | 136. | SCHEDULED NECROPSY DAY 20 |
| 10633 | G | 84. | 114. | SCHEDULED NECROPSY DAY 20 |
| 10635 | G | 74. | 113. | SCHEDULED NECROPSY DAY 20 |
| 10647 | G | 59. | 110. | SCHEDULED NECROPSY DAY 20 |
| 10649 | G | 70. | 105. | SCHEDULED NECROPSY DAY 20 |
| 10650 | G | 80. | 127. | SCHEDULED NECROPSY DAY 20 |
| 10652 | G | 73. | 117. | SCHEDULED NECROPSY DAY 20 |
| 10667 | G | 72. | 127. | SCHEDULED NECROPSY DAY 20 |
| 10671 | G | 68. | 110. | SCHEDULED NECROPSY DAY 20 |
| 10675 | G | 94. | 145. | SCHEDULED NECROPSY DAY 20 |
| 10697 | G | 56. | 111. | SCHEDULED NECROPSY DAY 20 |
| 10706 | G | 78. | 134. | SCHEDULED NECROPSY DAY 20 |
| 10711 | G | 74. | 116. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 73. | 121. | |
| S.D. | | 10.0 | 14.7 | |
| S.E. | | 2.1 | 3.1 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 4

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | | |
| 10589 | G | 28. | 5. | -3. | 7. | 7. | 7. | 1. | 6. | 8. |
| 10596 | G | 31. | 3. | 5. | 7. | 7. | 7. | 4. | 7. | 9. |
| 10600 | G | 22. | 0. | 1. | 5. | 3. | 4. | 7. | 2. | 8. |
| 10603 | G | 23. | 4. | 3. | 6. | 1. | 10. | -1. | 8. | 10. |
| 10618 | G | 27. | -1. | 2. | 7. | 2. | 9. | 8. | 0. | 9. |
| 10619 | G | 26. | 0. | 5. | 3. | 5. | 6. | 9. | 5. | 11. |
| 10623 | G | 46. | 4. | 4. | 10. | 3. | 8. | 4. | 7. | 15. |
| 10625 | G | 35. | -3. | 1. | -1. | 6. | 11. | 4. | 3. | 6. |
| 10636 | G | 44. | 0. | 6. | 2. | 9. | 1. | 10. | 8. | 6. |
| 10651 | G | 38. | 6. | 5. | 8. | 9. | 0. | 9. | -2. | 13. |
| 10655 | G | 34. | 2. | 2. | -2. | 2. | 5. | 8. | 3. | 6. |
| 10657 | G | 33. | -3. | 9. | 2. | 8. | 7. | 1. | -2. | 9. |
| 10661 | G | 26. | 5. | 2. | 6. | 1. | 5. | 7. | 6. | 2. |
| 10670 | G | 31. | 1. | 5. | 4. | 6. | 10. | 8. | 7. | 6. |
| 10688 | G | 25. | -5. | 4. | 0. | 8. | 0. | 7. | 4. | 6. |
| 10691 | G | 36. | -3. | 7. | 1. | 5. | 8. | 5. | 5. | 4. |
| 10696 | G | 28. | -3. | 1. | 6. | 6. | 15. | -2. | 6. | 5. |
| 10699 | G | 18. | -5. | 7. | 3. | 3. | 8. | 8. | 4. | 3. |
| 10703 | G | 30. | 4. | 1. | 4. | 3. | 5. | 7. | 3. | 5. |
| 10705 | G | 31. | 5. | -2. | 7. | 8. | 5. | 6. | 2. | 8. |
| 10709 | G | 25. | 2. | 3. | 0. | 7. | 4. | 8. | 5. | 4. |
| 10710 | G | 20. | 1. | 1. | 6. | 0. | 7. | 5. | 6. | 2. |
| MEAN | | 30. | 1. | 3. | 4. | 5. | 6. | 6. | 4. | 7. |
| S.D. | | 7.1 | 3.4 | 2.9 | 3.2 | 2.8 | 3.6 | 3.3 | 2.9 | 3.4 |
| S.E. | | 1.5 | 0.7 | 0.6 | 0.7 | 0.6 | 0.8 | 0.7 | 0.6 | 0.7 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 5

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | | |
| 10589 | G | 5. | 18. | 14. | 15. | 23. | 19. | 9. | 15. | 19. |
| 10596 | G | 13. | 10. | 18. | 16. | 22. | 24. | 15. | 18. | 29. |
| 10600 | G | 5. | 14. | 12. | 18. | 16. | 16. | 6. | 14. | 15. |
| 10603 | G | 8. | 15. | 12. | 18. | 18. | 14. | 13. | 10. | 26. |
| 10618 | G | 7. | 8. | 10. | 14. | 15. | 13. | 8. | 19. | 16. |
| 10619 | G | 0. | 14. | 11. | 20. | 12. | 23. | 8. | 20. | 16. |
| 10623 | G | 10. | 21. | 6. | 37. | 16. | 23. | 18. | 15. | 32. |
| 10625 | G | 7. | 16. | 10. | 16. | 11. | 16. | -3. | 21. | 16. |
| 10636 | G | 14. | 2. | 24. | 19. | 15. | 22. | 8. | 20. | 28. |
| 10651 | G | 10. | 9. | 15. | 23. | 20. | 25. | 19. | 18. | 21. |
| 10655 | G | 8. | 11. | 12. | 14. | 15. | 9. | 2. | 15. | 17. |
| 10657 | G | 9. | 9. | 15. | 12. | 14. | 18. | 8. | 16. | 16. |
| 10661 | G | 5. | 10. | 9. | 20. | 18. | 17. | 13. | 13. | 13. |
| 10670 | G | 9. | 14. | 22. | 17. | 23. | 14. | 10. | 24. | 22. |
| 10688 | G | 10. | 6. | 15. | 19. | 18. | 17. | -1. | 15. | 20. |
| 10691 | G | 11. | 17. | 11. | 21. | 24. | 15. | 5. | 18. | 20. |
| 10696 | G | 11. | 13. | 12. | 13. | 21. | 19. | 4. | 19. | 22. |
| 10699 | G | 7. | 11. | 13. | 11. | 12. | 15. | 5. | 19. | 14. |
| 10703 | G | 11. | 5. | 14. | 15. | 13. | 16. | 9. | 15. | 19. |
| 10705 | G | 10. | 10. | 14. | 17. | 15. | 21. | 10. | 19. | 20. |
| 10709 | G | 13. | 11. | -5. | 25. | 17. | 18. | 5. | 19. | 22. |
| 10710 | G | 11. | 7. | 17. | 10. | 12. | 19. | 8. | 12. | 19. |
| MEAN | | 9. | 11. | 13. | 18. | 17. | 18. | 8. | 17. | 20. |
| S.D. | | 3.2 | 4.5 | 5.7 | 5.7 | 3.9 | 4.0 | 5.4 | 3.3 | 5.0 |
| S.E. | | 0.7 | 1.0 | 1.2 | 1.2 | 0.8 | 0.8 | 1.2 | 0.7 | 1.1 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | |
| 10589 | G | 89. | 132. | SCHEDULED NECROPSY DAY 20 |
| 10596 | G | 90. | 152. | SCHEDULED NECROPSY DAY 20 |
| 10600 | G | 76. | 111. | SCHEDULED NECROPSY DAY 20 |
| 10603 | G | 77. | 126. | SCHEDULED NECROPSY DAY 20 |
| 10618 | G | 60. | 103. | SCHEDULED NECROPSY DAY 20 |
| 10619 | G | 80. | 124. | SCHEDULED NECROPSY DAY 20 |
| 10623 | G | 103. | 168. | SCHEDULED NECROPSY DAY 20 |
| 10625 | G | 69. | 103. | SCHEDULED NECROPSY DAY 20 |
| 10636 | G | 82. | 138. | SCHEDULED NECROPSY DAY 20 |
| 10651 | G | 92. | 150. | SCHEDULED NECROPSY DAY 20 |
| 10655 | G | 61. | 95. | SCHEDULED NECROPSY DAY 20 |
| 10657 | G | 68. | 108. | SCHEDULED NECROPSY DAY 20 |
| 10661 | G | 74. | 113. | SCHEDULED NECROPSY DAY 20 |
| 10670 | G | 90. | 146. | SCHEDULED NECROPSY DAY 20 |
| 10688 | G | 75. | 109. | SCHEDULED NECROPSY DAY 20 |
| 10691 | G | 88. | 131. | SCHEDULED NECROPSY DAY 20 |
| 10696 | G | 78. | 123. | SCHEDULED NECROPSY DAY 20 |
| 10699 | G | 62. | 100. | SCHEDULED NECROPSY DAY 20 |
| 10703 | G | 63. | 106. | SCHEDULED NECROPSY DAY 20 |
| 10705 | G | 77. | 126. | SCHEDULED NECROPSY DAY 20 |
| 10709 | G | 66. | 112. | SCHEDULED NECROPSY DAY 20 |
| 10710 | G | 65. | 104. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 77. | 122. | |
| S.D. | | 11.8 | 19.6 | |
| S.E. | | 2.5 | 4.2 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 7

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | | |
| 10584 | G | 40. | 1. | -1. | 7. | 8. | 4. | 5. | 3. | 12. |
| 10586 | G | 37. | -6. | 1. | 3. | 5. | 4. | 8. | 5. | 3. |
| 10588 | G | 41. | 3. | 2. | 0. | 1. | 8. | 8. | 13. | 8. |
| 10592 | G | 25. | -4. | -7. | 4. | 6. | 6. | 3. | 6. | 9. |
| 10594 | G | 37. | -1. | 7. | -1. | 4. | 7. | 3. | 6. | 5. |
| 10601 | G | 34. | 2. | -6. | 8. | 3. | 6. | 3. | 8. | 10. |
| 10605 | G | 31. | 0. | 4. | 2. | 5. | 4. | 13. | 4. | 7. |
| 10616 | G | 40. | 1. | -6. | 10. | 1. | 6. | 9. | 8. | 4. |
| 10617 | G | 43. | -6. | 6. | 2. | 4. | 6. | 7. | -1. | 8. |
| 10631 | G | 35. | -2. | 6. | 1. | 7. | 6. | 6. | 4. | 5. |
| 10637 | G | 38. | 3. | -1. | 4. | 1. | 6. | 5. | 9. | 5. |
| 10641 | G | 30. | -4. | 3. | 2. | 3. | 8. | 6. | 13. | 1. |
| 10644 | G | 32. | 0. | 1. | 4. | 4. | -1. | 9. | 8. | 4. |
| 10648 | G | 47. | 4. | -2. | 14. | 1. | 7. | 9. | 5. | 5. |
| 10656 | G | 45. | -1. | 5. | 11. | 8. | 5. | 4. | 10. | 3. |
| 10664 | G | 44. | -2. | 2. | -1. | 9. | 9. | 10. | 5. | -1. |
| 10665 | G | 28. | -4. | 1. | 9. | 2. | 8. | 5. | 9. | 3. |
| 10666 | G | 26. | -5. | 2. | 2. | 1. | 7. | 5. | 6. | 6. |
| 10673 | G | 43. | -6. | 2. | 1. | 4. | 11. | 7. | 1. | 8. |
| 10679 | G | 33. | 0. | 3. | 2. | 3. | 8. | 4. | 2. | 3. |
| 10680 | G | 44. | -8. | 6. | -1. | 7. | 6. | 3. | 8. | 4. |
| 10700 | G | 25. | 0. | -2. | 2. | 6. | 3. | 3. | 6. | 8. |
| MEAN | | 36. | -2. | 1. | 4. | 4. | 6. | 6. | 6. | 5. |
| S.D. | | 6.9 | 3.4 | 4.0 | 4.2 | 2.5 | 2.4 | 2.7 | 3.5 | 3.1 |
| S.E. | | 1.5 | 0.7 | 0.9 | 0.9 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 8

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | | |
| 10584 | G | 8. | 9. | 13. | 9. | 19. | 15. | 7. | 17. | 23. |
| 10586 | G | 7. | 16. | 9. | 13. | 12. | 15. | -2. | 17. | 15. |
| 10588 | G | 8. | 9. | 22. | 12. | 16. | 13. | 5. | 17. | 29. |
| 10592 | G | 11. | 10. | 14. | 15. | 15. | 19. | -7. | 15. | 26. |
| 10594 | G | 5. | 12. | 8. | 19. | 9. | 17. | 5. | 14. | 16. |
| 10601 | G | 7. | 10. | 14. | 14. | 13. | 11. | 4. | 12. | 25. |
| 10605 | G | 10. | 5. | 14. | 17. | 11. | 14. | 6. | 22. | 21. |
| 10616 | G | 12. | 9. | 11. | 18. | 19. | 17. | 5. | 16. | 24. |
| 10617 | G | 7. | 11. | 11. | 17. | 16. | 10. | 2. | 17. | 14. |
| 10631 | G | 9. | 13. | 17. | 14. | 14. | 12. | 5. | 19. | 18. |
| 10637 | G | 6. | 6. | 19. | 15. | 19. | 8. | 6. | 12. | 20. |
| 10641 | G | 8. | 11. | 13. | 15. | 9. | 20. | 1. | 17. | 22. |
| 10644 | G | 11. | 3. | 18. | 14. | 17. | 12. | 5. | 12. | 23. |
| 10648 | G | 11. | 8. | 23. | 10. | 19. | 21. | 16. | 17. | 21. |
| 10656 | G | 10. | 17. | 13. | 25. | 13. | 22. | 15. | 17. | 23. |
| 10664 | G | 9. | 13. | 17. | 19. | 21. | 23. | -1. | 28. | 13. |
| 10665 | G | 2. | 17. | 7. | 19. | 15. | 22. | 6. | 15. | 14. |
| 10666 | G | 7. | 15. | 11. | 20. | 10. | 18. | -1. | 13. | 19. |
| 10673 | G | 9. | 10. | 16. | 16. | 22. | 16. | -3. | 22. | 18. |
| 10679 | G | 14. | -1. | 26. | 14. | 15. | 17. | 5. | 15. | 19. |
| 10680 | G | 9. | 8. | 10. | 19. | 14. | 17. | -3. | 16. | 21. |
| 10700 | G | 10. | 11. | 9. | 16. | 13. | 15. | 0. | 12. | 24. |
| MEAN | | 9. | 10. | 14. | 16. | 15. | 16. | 3. | 16. | 20. |
| S.D. | | 2.6 | 4.4 | 5.0 | 3.6 | 3.7 | 4.1 | 5.4 | 3.8 | 4.2 |
| S.E. | | 0.5 | 0.9 | 1.1 | 0.8 | 0.8 | 0.9 | 1.2 | 0.8 | 0.9 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 9

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | |
| 10584 | G | 65. | 112. | SCHEDULED NECROPSY DAY 20 |
| 10586 | G | 65. | 95. | SCHEDULED NECROPSY DAY 20 |
| 10588 | G | 72. | 123. | SCHEDULED NECROPSY DAY 20 |
| 10592 | G | 73. | 107. | SCHEDULED NECROPSY DAY 20 |
| 10594 | G | 65. | 100. | SCHEDULED NECROPSY DAY 20 |
| 10601 | G | 62. | 103. | SCHEDULED NECROPSY DAY 20 |
| 10605 | G | 61. | 110. | SCHEDULED NECROPSY DAY 20 |
| 10616 | G | 74. | 119. | SCHEDULED NECROPSY DAY 20 |
| 10617 | G | 65. | 98. | SCHEDULED NECROPSY DAY 20 |
| 10631 | G | 70. | 112. | SCHEDULED NECROPSY DAY 20 |
| 10637 | G | 67. | 105. | SCHEDULED NECROPSY DAY 20 |
| 10641 | G | 68. | 108. | SCHEDULED NECROPSY DAY 20 |
| 10644 | G | 64. | 104. | SCHEDULED NECROPSY DAY 20 |
| 10648 | G | 81. | 135. | SCHEDULED NECROPSY DAY 20 |
| 10656 | G | 90. | 145. | SCHEDULED NECROPSY DAY 20 |
| 10664 | G | 93. | 133. | SCHEDULED NECROPSY DAY 20 |
| 10665 | G | 80. | 115. | SCHEDULED NECROPSY DAY 20 |
| 10666 | G | 74. | 105. | SCHEDULED NECROPSY DAY 20 |
| 10673 | G | 80. | 117. | SCHEDULED NECROPSY DAY 20 |
| 10679 | G | 71. | 110. | SCHEDULED NECROPSY DAY 20 |
| 10680 | G | 68. | 102. | SCHEDULED NECROPSY DAY 20 |
| 10700 | G | 64. | 100. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 71. | 112. | |
| S.D. | | 8.7 | 12.8 | |
| S.E. | | 1.9 | 2.7 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 10

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | |
| 10582 | G | 35. | -1. | 2. | 0. | 7. | 4. | 6. | 3. | 3. |
| 10583 | G | 32. | 3. | 7. | 5. | -3. | 12. | 13. | 0. | 8. |
| 10585 | G | 30. | 4. | 2. | -2. | 11. | 4. | 6. | 9. | 5. |
| 10590 | G | 27. | -2. | -2. | 1. | 2. | 6. | 2. | 3. | 9. |
| 10595 | G | 32. | 1. | -3. | 4. | -2. | 9. | 5. | 8. | 6. |
| 10597 | G | 46. | -1. | -9. | 7. | 0. | 7. | 8. | 0. | 6. |
| 10599 | G | 35. | 10. | -2. | -1. | 14. | 7. | 2. | 0. | 5. |
| 10606 | G | 32. | 1. | 5. | 1. | 5. | 9. | 4. | 8. | 3. |
| 10630 | G | 37. | -6. | 5. | 6. | 4. | 9. | 10. | 9. | 2. |
| 10643 | G | 24. | -3. | 3. | 7. | 3. | 5. | 10. | 11. | 1. |
| 10658 | G | 24. | -4. | -3. | -1. | 8. | 7. | 4. | 2. | 9. |
| 10669 | G | 20. | 5. | 1. | 3. | 5. | 5. | 6. | 7. | 4. |
| 10672 | G | 41. | -4. | 1. | 2. | 7. | 10. | 2. | 3. | 8. |
| 10674 | G | 32. | -3. | 0. | 2. | 0. | 8. | 2. | 3. | 4. |
| 10676 | G | 26. | -3. | 7. | 3. | -1. | 6. | 5. | 4. | 8. |
| 10678 | G | 31. | -1. | 1. | 2. | 4. | 2. | 7. | 4. | 9. |
| 10681 | G | 30. | 1. | 1. | 4. | 3. | 8. | 2. | 0. | 12. |
| 10685 | G | 33. | -2. | 0. | 3. | 1. | 15. | 7. | 6. | 9. |
| 10687 | G | 28. | -3. | 4. | -1. | 7. | 7. | 3. | 9. | 8. |
| 10692 | G | 41. | -5. | 8. | 4. | 7. | 1. | 8. | 8. | 6. |
| 10694 | G | 28. | -8. | 2. | -2. | 6. | 8. | 1. | 7. | 8. |
| 10708 | G | 16. | -2. | 1. | 17. | -3. | 5. | 5. | 14. | 1. |
| MEAN | | 31. | -1. | 1. | 3. | 4. | 7. | 5. | 5. | 6. |
| S.D. | | 6.9 | 4.0 | 3.9 | 4.2 | 4.4 | 3.1 | 3.1 | 3.9 | 3.0 |
| S.E. | | 1.5 | 0.9 | 0.8 | 0.9 | 0.9 | 0.7 | 0.7 | 0.8 | 0.6 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | |
| 10582 | G | 11. | 12. | 16. | 15. | 7. | 19. | 1. | 17. | 17. |
| 10583 | G | 14. | 5. | 19. | 11. | 16. | 17. | 15. | 22. | 22. |
| 10585 | G | 10. | 9. | 14. | 15. | 14. | 18. | 4. | 21. | 24. |
| 10590 | G | 6. | 8. | 19. | 14. | 11. | 17. | -3. | 10. | 18. |
| 10595 | G | 2. | 12. | 14. | 16. | 17. | 12. | 2. | 12. | 16. |
| 10597 | G | 4. | 22. | 10. | 15. | 17. | 11. | -3. | 15. | 10. |
| 10599 | G | 15. | 7. | 19. | 22. | 9. | 23. | 7. | 23. | 20. |
| 10606 | G | 10. | 12. | 16. | 17. | 15. | 16. | 7. | 18. | 21. |
| 10630 | G | 12. | 12. | 16. | 14. | 16. | 16. | 5. | 23. | 23. |
| 10643 | G | 4. | 14. | 15. | 19. | 14. | 9. | 7. | 18. | 16. |
| 10658 | G | 4. | 11. | 16. | 13. | 11. | 16. | -8. | 19. | 15. |
| 10669 | G | 6. | 10. | 10. | 14. | 19. | 16. | 9. | 16. | 17. |
| 10672 | G | 4. | 13. | 12. | 11. | 19. | 16. | -1. | 19. | 15. |
| 10674 | G | 3. | 13. | 14. | 14. | 11. | 16. | -1. | 10. | 10. |
| 10676 | G | 6. | 13. | 14. | 17. | 10. | 16. | 7. | 10. | 18. |
| 10678 | G | 7. | 9. | 12. | 16. | 15. | 20. | 2. | 13. | 20. |
| 10681 | G | 2. | 9. | 4. | 17. | 16. | 11. | 6. | 13. | 14. |
| 10685 | G | 1. | 15. | 16. | 19. | 19. | 18. | 1. | 23. | 16. |
| 10687 | G | 5. | 8. | 13. | 21. | 20. | 18. | 0. | 17. | 22. |
| 10692 | G | 10. | 17. | 14. | 19. | 7. | 17. | 7. | 16. | 24. |
| 10694 | G | 7. | 16. | 11. | 12. | 10. | 15. | -8. | 15. | 22. |
| 10708 | G | 7. | 8. | 17. | 13. | 26. | 19. | 16. | 7. | 22. |
| MEAN | | 7. | 12. | 14. | 16. | 15. | 16. | 3. | 16. | 18. |
| S.D. | | 3.9 | 3.8 | 3.5 | 3.0 | 4.7 | 3.2 | 6.2 | 4.7 | 4.1 |
| S.E. | | 0.8 | 0.8 | 0.7 | 0.6 | 1.0 | 0.7 | 1.3 | 1.0 | 0.9 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | |
| 10582 | G | 69. | 104. | SCHEDULED NECROPSY DAY 20 |
| 10583 | G | 68. | 127. | SCHEDULED NECROPSY DAY 20 |
| 10585 | G | 70. | 119. | SCHEDULED NECROPSY DAY 20 |
| 10590 | G | 69. | 94. | SCHEDULED NECROPSY DAY 20 |
| 10595 | G | 71. | 101. | SCHEDULED NECROPSY DAY 20 |
| 10597 | G | 75. | 97. | SCHEDULED NECROPSY DAY 20 |
| 10599 | G | 80. | 130. | SCHEDULED NECROPSY DAY 20 |
| 10606 | G | 76. | 122. | SCHEDULED NECROPSY DAY 20 |
| 10630 | G | 74. | 125. | SCHEDULED NECROPSY DAY 20 |
| 10643 | G | 71. | 112. | SCHEDULED NECROPSY DAY 20 |
| 10658 | G | 67. | 93. | SCHEDULED NECROPSY DAY 20 |
| 10669 | G | 69. | 111. | SCHEDULED NECROPSY DAY 20 |
| 10672 | G | 71. | 104. | SCHEDULED NECROPSY DAY 20 |
| 10674 | G | 68. | 87. | SCHEDULED NECROPSY DAY 20 |
| 10676 | G | 70. | 105. | SCHEDULED NECROPSY DAY 20 |
| 10678 | G | 72. | 107. | SCHEDULED NECROPSY DAY 20 |
| 10681 | G | 57. | 90. | SCHEDULED NECROPSY DAY 20 |
| 10685 | G | 87. | 127. | SCHEDULED NECROPSY DAY 20 |
| 10687 | G | 80. | 119. | SCHEDULED NECROPSY DAY 20 |
| 10692 | G | 74. | 121. | SCHEDULED NECROPSY DAY 20 |
| 10694 | G | 64. | 93. | SCHEDULED NECROPSY DAY 20 |
| 10708 | G | 83. | 128. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 72. | 110. | |
| S.D. | | 6.5 | 13.9 | |
| S.E. | | 1.4 | 3.0 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | |
| 10591 | G | 53. | -7. | 0. | 1. | -4. | 3. | 9. | 5. | 6. |
| 10593 | G | 26. | -3. | -1. | 1. | 4. | 2. | 4. | 1. | 9. |
| 10608 | G | 29. | 3. | -4. | 4. | 2. | 12. | 1. | 9. | 4. |
| 10610 | G | 29. | -11. | 3. | 0. | 3. | 13. | 4. | 3. | 9. |
| 10611 | G | 36. | -8. | -2. | 2. | 1. | 3. | 4. | 6. | 2. |
| 10613 | G | 31. | -3. | 2. | 8. | 7. | 6. | 4. | 11. | 6. |
| 10615 | G | 36. | 3. | 2. | 1. | 7. | 5. | 9. | 6. | 6. |
| 10620 | G | 28. | -6. | 5. | -2. | 3. | 12. | 1. | 2. | 5. |
| 10621 | G | 27. | -3. | -3. | 3. | 4. | 3. | 9. | 6. | 5. |
| 10627 | G | 38. | -6. | 7. | -3. | 1. | 7. | 7. | 3. | 2. |
| 10628 | G | 24. | -12. | 10. | 1. | 9. | 12. | 5. | 9. | 1. |
| 10639 | G | 35. | -6. | 6. | -3. | 6. | 6. | 7. | 9. | 3. |
| 10640 | G | 41. | -2. | 2. | 7. | 10. | 6. | 6. | 5. | 11. |
| 10642 | G | 45. | -14. | -1. | 8. | 8. | 7. | 8. | 5. | 3. |
| 10646 | G | 32. | 3. | -2. | 1. | 1. | 0. | 9. | 3. | 10. |
| 10659 | G | 29. | -1. | -2. | 2. | 3. | 9. | 3. | 4. | 4. |
| 10663 | G | 45. | -15. | 5. | 9. | 4. | 12. | 3. | 14. | 6. |
| 10668 | G | 39. | -11. | 6. | 1. | -27. | 3. | 22. | 4. | 6. |
| 10686 | G | 35. | -9. | -6. | -3. | 1. | 3. | 5. | 8. | 5. |
| 10689 | G | 24. | -1. | -5. | 7. | 5. | 9. | 8. | 2. | 7. |
| 10704 | G | 23. | 1. | -5. | 4. | 6. | 7. | -1. | 3. | 6. |
| 10707 | G | 21. | -3. | 1. | NA | NA | NA | NA | NA | NA |
| MEAN | | 33. | -5. | 1. | 2. | 3. | 7. | 6. | 6. | 6. |
| S.D. | | 8.2 | 5.4 | 4.4 | 3.7 | 7.5 | 3.9 | 4.7 | 3.3 | 2.7 |
| S.E. | | 1.7 | 1.2 | 0.9 | 0.8 | 1.6 | 0.8 | 1.0 | 0.7 | 0.6 |
| N | | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A5

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

| | PREGNANCY STATUS | DAY14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | |
| 10591 | G | 6. | 15. | 12. | 5. | 20. | 6. | -6. | 8. | 17. |
| 10593 | G | 11. | 10. | 14. | 19. | 15. | 18. | -3. | 10. | 21. |
| 10608 | G | 12. | 16. | 17. | 17. | 19. | 16. | 3. | 15. | 25. |
| 10610 | G | 5. | 18. | 7. | 24. | 11. | 19. | -8. | 20. | 17. |
| 10611 | G | 3. | 13. | 10. | 16. | 12. | 14. | -8. | 8. | 11. |
| 10613 | G | 5. | 5. | 17. | 18. | 16. | 9. | 7. | 17. | 22. |
| 10615 | G | 12. | 15. | 12. | 19. | 16. | 17. | 6. | 21. | 24. |
| 10620 | G | 5. | 1. | 14. | 6. | 16. | 15. | -3. | 16. | 12. |
| 10621 | G | 9. | 13. | 13. | 16. | 17. | 15. | -3. | 16. | 20. |
| 10627 | G | 9. | 9. | 17. | 17. | 8. | 22. | -2. | 15. | 14. |
| 10628 | G | 6. | 6. | 10. | 13. | 14. | 5. | -1. | 26. | 16. |
| 10639 | G | 7. | 15. | 4. | 16. | 15. | 15. | -3. | 19. | 19. |
| 10640 | G | 6. | 11. | 11. | 17. | 17. | 20. | 7. | 22. | 22. |
| 10642 | G | 7. | 10. | 15. | 11. | 14. | 14. | -7. | 23. | 15. |
| 10646 | G | 5. | 3. | 12. | 18. | 12. | 16. | 2. | 10. | 18. |
| 10659 | G | 8. | 11. | 17. | 14. | 18. | 8. | -1. | 15. | 16. |
| 10663 | G | 11. | 7. | 13. | 19. | 18. | 23. | -1. | 19. | 31. |
| 10668 | G | 7. | 8. | 12. | 16. | 20. | 16. | -4. | -2. | 17. |
| 10686 | G | 4. | 14. | 14. | 16. | 15. | 16. | -18. | 9. | 17. |
| 10689 | G | 9. | 14. | 12. | 14. | 20. | 19. | 1. | 22. | 18. |
| 10704 | G | 13. | 11. | 12. | 14. | 16. | 12. | 0. | 12. | 22. |
| 10707 | G | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MEAN | | 8. | 11. | 13. | 15. | 16. | 15. | -2. | 15. | 19. |
| S.D. | | 2.9 | 4.5 | 3.3 | 4.3 | 3.1 | 4.8 | 5.7 | 6.6 | 4.6 |
| S.E. | | 0.6 | 1.0 | 0.7 | 0.9 | 0.7 | 1.1 | 1.3 | 1.4 | 1.0 |
| N | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

| | PREGNANCY STATUS | DAY15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | |
| 10591 | G | 58. | 77. | SCHEDULED NECROPSY DAY 20 |
| 10593 | G | 76. | 104. | SCHEDULED NECROPSY DAY 20 |
| 10608 | G | 85. | 128. | SCHEDULED NECROPSY DAY 20 |
| 10610 | G | 79. | 108. | SCHEDULED NECROPSY DAY 20 |
| 10611 | G | 65. | 76. | SCHEDULED NECROPSY DAY 20 |
| 10613 | G | 65. | 111. | SCHEDULED NECROPSY DAY 20 |
| 10615 | G | 79. | 130. | SCHEDULED NECROPSY DAY 20 |
| 10620 | G | 52. | 77. | SCHEDULED NECROPSY DAY 20 |
| 10621 | G | 74. | 107. | SCHEDULED NECROPSY DAY 20 |
| 10627 | G | 73. | 100. | SCHEDULED NECROPSY DAY 20 |
| 10628 | G | 48. | 89. | SCHEDULED NECROPSY DAY 20 |
| 10639 | G | 65. | 100. | SCHEDULED NECROPSY DAY 20 |
| 10640 | G | 76. | 127. | SCHEDULED NECROPSY DAY 20 |
| 10642 | G | 64. | 95. | SCHEDULED NECROPSY DAY 20 |
| 10646 | G | 61. | 91. | SCHEDULED NECROPSY DAY 20 |
| 10659 | G | 68. | 98. | SCHEDULED NECROPSY DAY 20 |
| 10663 | G | 80. | 129. | SCHEDULED NECROPSY DAY 20 |
| 10668 | G | 72. | 83. | SCHEDULED NECROPSY DAY 20 |
| 10686 | G | 75. | 83. | SCHEDULED NECROPSY DAY 20 |
| 10689 | G | 79. | 120. | SCHEDULED NECROPSY DAY 20 |
| 10704 | G | 65. | 99. | SCHEDULED NECROPSY DAY 20 |
| 10707 | G | NA | NA | GRAVID, DIED DAY 8 |
| MEAN | | 69. | 102. | |
| S.D. | | 9.6 | 17.7 | |
| S.E. | | 2.1 | 3.9 | |
| N | | 21 | 21 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A6

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL GRAVID UTERINE WTS. AND NET BODY WT. CHANGES [G]

| DAM # | PREGNANCY STATUS | INITIAL BODY WT. | TERMINAL BODY WT. | GRAVID UTERINE WT. | NET BODY WT. | NET BODY WT. CHANGE |
|---|---|---|---|---|---|---|
| GROUP 1: 0 MG/KG/DAY | | | | | | |
| 10598 | G | 263. | 436. | 103.6 | 332.4 | 69.4 |
| 10602 | G | 281. | 450. | 98.2 | 351.8 | 70.8 |
| 10604 | G | 257. | 434. | 89.5 | 344.5 | 87.5 |
| 10607 | G | 237. | 371. | 74.6 | 296.4 | 59.4 |
| 10609 | G | 263. | 404. | 85.0 | 319.0 | 56.0 |
| 10612 | G | 237. | 383. | 77.4 | 305.6 | 68.6 |
| 10624 | G | 250. | 395. | 80.1 | 314.9 | 64.9 |
| 10626 | G | 245. | 402. | 83.8 | 318.2 | 73.2 |
| 10629 | G | 235. | 367. | 72.1 | 294.9 | 59.9 |
| 10632 | G | 261. | 440. | 91.4 | 348.6 | 87.6 |
| 10633 | G | 249. | 395. | 78.2 | 316.8 | 67.8 |
| 10635 | G | 249. | 391. | 81.5 | 309.5 | 60.5 |
| 10647 | G | 242. | 386. | 71.0 | 315.0 | 73.0 |
| 10649 | G | 254. | 392. | 73.5 | 318.5 | 64.5 |
| 10650 | G | 282. | 449. | 98.0 | 351.0 | 69.0 |
| 10652 | G | 234. | 389. | 84.3 | 304.7 | 70.7 |
| 10667 | G | 277. | 440. | 97.4 | 342.6 | 65.6 |
| 10671 | G | 244. | 378. | 78.2 | 299.8 | 55.8 |
| 10675 | G | 255. | 438. | 109.1 | 328.9 | 73.9 |
| 10697 | G | 264. | 417. | 52.4 | 364.6 | 100.6 |
| 10706 | G | 266. | 434. | 89.9 | 344.1 | 78.1 |
| 10711 | G | 241. | 386. | 86.0 | 300.0 | 59.0 |
| MEAN | | 254. | 408. | 84.3 | 323.7 | 69.8 |
| S.D. | | 14.5 | 27.1 | 12.64 | 20.72 | 11.04 |
| S.E. | | 3.1 | 5.8 | 2.69 | 4.42 | 2.35 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID

TABLE A6

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 2
SPONSOR:LYONDELLBASELL INDIVIDUAL GRAVID UTERINE WTS. AND NET BODY WT. CHANGES [G]

| DAM # | PREGNANCY STATUS | INITIAL BODY WT. | TERMINAL BODY WT. | GRAVID UTERINE WT. | NET BODY WT. | NET BODY WT. CHANGE |
|---|---|---|---|---|---|---|
| GROUP 2: 400 MG/KG/DAY | | | | | | |
| 10589 | G | 253. | 413. | 87.4 | 325.6 | 72.6 |
| 10596 | G | 241. | 424. | 105.3 | 318.7 | 77.7 |
| 10600 | G | 266. | 399. | 91.3 | 307.7 | 41.7 |
| 10603 | G | 239. | 388. | 72.9 | 315.1 | 76.1 |
| 10618 | G | 262. | 392. | 81.2 | 310.8 | 48.8 |
| 10619 | G | 281. | 431. | 95.1 | 335.9 | 54.9 |
| 10623 | G | 255. | 469. | 114.1 | 354.9 | 99.9 |
| 10625 | G | 254. | 392. | 78.0 | 314.0 | 60.0 |
| 10636 | G | 257. | 439. | 98.1 | 340.9 | 83.9 |
| 10651 | G | 266. | 454. | 95.3 | 358.7 | 92.7 |
| 10655 | G | 232. | 361. | 61.9 | 299.1 | 67.1 |
| 10657 | G | 248. | 389. | 81.9 | 307.1 | 59.1 |
| 10661 | G | 250. | 389. | 92.5 | 296.5 | 46.5 |
| 10670 | G | 274. | 451. | 95.4 | 355.6 | 81.6 |
| 10688 | G | 247. | 381. | 93.1 | 287.9 | 40.9 |
| 10691 | G | 270. | 437. | 95.6 | 341.4 | 71.4 |
| 10696 | G | 271. | 422. | 68.4 | 353.6 | 82.6 |
| 10699 | G | 236. | 354. | NA | NA | NA |
| 10703 | G | 245. | 381. | 84.6 | 296.4 | 51.4 |
| 10705 | G | 254. | 411. | 85.1 | 325.9 | 71.9 |
| 10709 | G | 259. | 396. | 81.5 | 314.5 | 55.5 |
| 10710 | G | 236. | 360. | 75.6 | 284.4 | 48.4 |
| MEAN | | 254. | 406. | 87.3 | 321.2 | 65.9 |
| S.D. | | 13.4 | 31.7 | 12.33 | 23.06 | 17.01 |
| S.E. | | 2.9 | 6.8 | 2.69 | 5.03 | 3.71 |
| N | | 22 | 22 | 21 | 21 | 21 |

G = GRAVID
NA = NOT APPLICABLE

TABLE A6

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL GRAVID UTERINE WTS. AND NET BODY WT. CHANGES [G]

| DAM # | PREGNANCY STATUS | INITIAL BODY WT. | TERMINAL BODY WT. | GRAVID UTERINE WT. | NET BODY WT. | NET BODY WT. CHANGE |
|---|---|---|---|---|---|---|
| GROUP 3: 800 MG/KG/DAY | | | | | | |
| 10584 | G | 263. | 415. | 94.5 | 320.5 | 57.5 |
| 10586 | G | 259. | 391. | 85.9 | 305.1 | 46.1 |
| 10588 | G | 255. | 419. | 84.9 | 334.1 | 79.1 |
| 10592 | G | 243. | 375. | 84.8 | 290.2 | 47.2 |
| 10594 | G | 232. | 369. | 68.8 | 300.2 | 68.2 |
| 10601 | G | 251. | 388. | 85.3 | 302.7 | 51.7 |
| 10605 | G | 233. | 374. | 59.8 | 314.2 | 81.2 |
| 10616 | G | 247. | 406. | 98.4 | 307.6 | 60.6 |
| 10617 | G | 268. | 409. | 75.8 | 333.2 | 65.2 |
| 10631 | G | 248. | 395. | 84.1 | 310.9 | 62.9 |
| 10637 | G | 221. | 364. | 79.6 | 284.4 | 63.4 |
| 10641 | G | 241. | 379. | 82.0 | 297.0 | 56.0 |
| 10644 | G | 240. | 376. | 78.5 | 297.5 | 57.5 |
| 10648 | G | 270. | 452. | 89.9 | 362.1 | 92.1 |
| 10656 | G | 265. | 455. | 96.3 | 358.7 | 93.7 |
| 10664 | G | 262. | 439. | 97.1 | 341.9 | 79.9 |
| 10665 | G | 282. | 425. | 104.1-A | NA | NA |
| 10666 | G | 255. | 386. | 88.5 | 297.5 | 42.5 |
| 10673 | G | 274. | 434. | 81.2 | 352.8 | 78.8 |
| 10679 | G | 243. | 386. | 84.7 | 301.3 | 58.3 |
| 10680 | G | 242. | 388. | 86.9 | 301.1 | 59.1 |
| 10700 | G | 249. | 374. | 75.1 | 298.9 | 49.9 |
| MEAN | | 252. | 400. | 83.9 | 314.9 | 64.3 |
| S.D. | | 15.0 | 27.4 | 9.32 | 23.10 | 14.69 |
| S.E. | | 3.2 | 5.8 | 2.03 | 5.04 | 3.21 |
| N | | 22 | 22 | 21 | 21 | 21 |

G = GRAVID
NA = NOT APPLICABLE
A = OBVIOUSLY ADVANCED BEYOND GESTATION DAY 20; WEIGHT NOT INCLUDED IN CALCULATIONS.

TABLE A6

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL GRAVID UTERINE WTS. AND NET BODY WT. CHANGES [G]

| DAM # | PREGNANCY STATUS | INITIAL BODY WT. | TERMINAL BODY WT. | GRAVID UTERINE WT. | NET BODY WT. | NET BODY WT. CHANGE |
|---|---|---|---|---|---|---|
| GROUP 4: 1000 MG/KG/DAY | | | | | | |
| 10582 | G | 253. | 392. | 79.0 | 313.0 | 60.0 |
| 10583 | G | 282. | 441. | 93.7 | 347.3 | 65.3 |
| 10585 | G | 264. | 413. | 88.3 | 324.7 | 60.7 |
| 10590 | G | 243. | 364. | 84.4 | 279.6 | 36.6 |
| 10595 | G | 255. | 388. | 88.4 | 299.6 | 44.6 |
| 10597 | G | 266. | 409. | 78.8 | 330.2 | 64.2 |
| 10599 | G | 273. | 438. | 96.4 | 341.6 | 68.6 |
| 10606 | G | 247. | 401. | 79.0 | 322.0 | 75.0 |
| 10630 | G | 266. | 428. | 88.8 | 339.2 | 73.2 |
| 10643 | G | 240. | 376. | 72.3 | 303.7 | 63.7 |
| 10658 | G | 247. | 364. | 75.6 | 288.4 | 41.4 |
| 10669 | G | 252. | 383. | 82.1 | 300.9 | 48.9 |
| 10672 | G | 225. | 370. | 86.5 | 283.5 | 58.5 |
| 10674 | G | 250. | 369. | 73.3 | 295.7 | 45.7 |
| 10676 | G | 286. | 417. | 85.5 | 331.5 | 45.5 |
| 10678 | G | 230. | 368. | 71.1 | 296.9 | 66.9 |
| 10681 | G | 240. | 360. | 66.1 | 293.9 | 53.9 |
| 10685 | G | 256. | 416. | 102.4 | 313.6 | 57.6 |
| 10687 | G | 277. | 424. | 91.3 | 332.7 | 55.7 |
| 10692 | G | 246. | 408. | 76.1 | 331.9 | 85.9 |
| 10694 | G | 234. | 355. | 81.4 | 273.6 | 39.6 |
| 10708 | G | 261. | 405. | 104.6 | 300.4 | 39.4 |
| MEAN | | 254. | 395. | 83.9 | 311.1 | 56.9 |
| S.D. | | 16.4 | 26.7 | 9.98 | 21.65 | 13.11 |
| S.E. | | 3.5 | 5.7 | 2.13 | 4.62 | 2.79 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID

TABLE A6

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL GRAVID UTERINE WTS. AND NET BODY WT. CHANGES [G]

| DAM # | PREGNANCY STATUS | INITIAL BODY WT. | TERMINAL BODY WT. | GRAVID UTERINE WT. | NET BODY WT. | NET BODY WT. CHANGE |
|---|---|---|---|---|---|---|
| GROUP 5: 1600 MG/KG/DAY | | | | | | |
| 10591 | G | 283. | 413. | 80.1 | 332.9 | 49.9 |
| 10593 | G | 274. | 404. | 85.8 | 318.2 | 44.2 |
| 10608 | G | 251. | 408. | 103.5 | 304.5 | 53.5 |
| 10610 | G | 246. | 383. | 85.0 | 298.0 | 52.0 |
| 10611 | G | 255. | 367. | 71.5 | 295.5 | 40.5 |
| 10613 | G | 261. | 403. | 94.3 | 308.7 | 47.7 |
| 10615 | G | 261. | 427. | 104.5 | 322.5 | 61.5 |
| 10620 | G | 234. | 339. | 75.4 | 263.6 | 29.6 |
| 10621 | G | 238. | 372. | 91.3 | 280.7 | 42.7 |
| 10627 | G | 240. | 378. | 72.3 | 305.7 | 65.7 |
| 10628 | G | 236. | 349. | 76.6 | 272.4 | 36.4 |
| 10639 | G | 247. | 382. | 63.7 | 318.3 | 71.3 |
| 10640 | G | 266. | 434. | 87.7 | 346.3 | 80.3 |
| 10642 | G | 226. | 366. | 77.5 | 288.5 | 62.5 |
| 10646 | G | 235. | 358. | 79.2 | 278.8 | 43.8 |
| 10659 | G | 272. | 399. | 80.2 | 318.8 | 46.8 |
| 10663 | G | 259. | 433. | 97.7 | 335.3 | 76.3 |
| 10668 | G | 253. | 375. | 78.7 | 296.3 | 43.3 |
| 10686 | G | 258. | 376. | 77.2 | 298.8 | 40.8 |
| 10689 | G | 263. | 407. | 99.0 | 308.0 | 45.0 |
| 10704 | G | 240. | 362. | 78.2 | 283.8 | 43.8 |
| MEAN | | 252. | 387. | 83.8 | 303.6 | 51.3 |
| S.D. | | 15.0 | 27.2 | 11.01 | 21.52 | 13.42 |
| S.E. | | 3.3 | 5.9 | 2.40 | 4.70 | 2.93 |
| N | | 21 | 21 | 21 | 21 | 21 |

G = GRAVID

PUTv4.05
05/23/2008
R:05/23/2008

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | | |
| 10598 | G | 22. | 22. | 20. | 19. | 21. | 21. | 26. | 23. | 21. |
| 10602 | G | 24. | 24. | 24. | 21. | 23. | 26. | 26. | 28. | 29. |
| 10604 | G | 22. | 22. | 20. | 21. | 24. | 19. | 23. | 25. | 22. |
| 10607 | G | 22. | 20. | 20. | 19. | 19. | 21. | 21. | 21. | 23. |
| 10609 | G | 24. | 21. | 23. | 21. | 22. | 19. | 23. | 21. | 21. |
| 10612 | G | 19. | 17. | 17. | 13. | 15. | 18. | 18. | 20. | 20. |
| 10624 | G | 21. | 17. | 21. | 20. | 21. | 21. | 22. | 23. | 19. |
| 10626 | G | 21. | 22. | 20. | 20. | 23. | 24. | 21. | 22. | 25. |
| 10629 | G | 20. | 17. | 19. | 18. | 17. | 17. | 20. | 24. | 21. |
| 10632 | G | 24. | 20. | 25. | 21. | 22. | 22. | 26. | 26. | 22. |
| 10633 | G | 22. | 19. | 22. | 19. | 20. | 22. | 22. | 20. | 19. |
| 10635 | G | 22. | 16. | 21. | 21. | 18. | 19. | 22. | 18. | 22. |
| 10647 | G | 22. | 22. | 22. | 22. | 24. | 21. | 24. | 23. | 21. |
| 10649 | G | 23. | 20. | 21. | 21. | 18. | 21. | 20. | 19. | 19. |
| 10650 | G | 27. | 28. | 29. | 26. | 26. | 28. | 26. | 23. | 24. |
| 10652 | G | 23. | 20. | 21. | 24. | 22. | 21. | 25. | 24. | 22. |
| 10667 | G | 24. | 15. | 22. | 24. | 24. | 27. | 22. | 24. | 23. |
| 10671 | G | 20. | 17. | 19. | 21. | 19. | 22. | 21. | 21. | 22. |
| 10675 | G | 24. | 24. | 22. | 23. | 23. | 21. | 22. | 23. | 20. |
| 10697 | G | 25. | 22. | 28. | 22. | 26. | 23. | 25. | 26. | 28. |
| 10706 | G | 26. | 20. | 25. | 25. | 26. | 25. | 26. | 30. | 27. |
| 10711 | G | 23. | 21. | 23. | 23. | 20. | 25. | 24. | 25. | 24. |
| MEAN | | 23. | 20. | 22. | 21. | 22. | 22. | 23. | 23. | 22. |
| S.D. | | 2.0 | 3.0 | 2.9 | 2.7 | 3.0 | 2.9 | 2.3 | 2.9 | 2.8 |
| S.E. | | 0.4 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 2

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | | |
| 10598 | G | 25. | 23. | 28. | 28. | 29. | 22. | 20. | 23. | 23. |
| 10602 | G | 30. | 28. | 31. | 31. | 31. | 26. | 23. | 25. | 29. |
| 10604 | G | 24. | 26. | 24. | 28. | 25. | 27. | 21. | 22. | 24. |
| 10607 | G | 22. | 26. | 23. | 24. | 24. | 23. | 20. | 20. | 22. |
| 10609 | G | 24. | 21. | 25. | 22. | 23. | 21. | 22. | 21. | 22. |
| 10612 | G | 22. | 23. | 23. | 27. | 22. | 21. | 16. | 17. | 21. |
| 10624 | G | 23. | 24. | 23. | 22. | 20. | 21. | 19. | 21. | 22. |
| 10626 | G | 24. | 26. | 26. | 25. | 27. | 25. | 21. | 23. | 24. |
| 10629 | G | 22. | 9. | 20. | 26. | 27. | 22. | 18. | 18. | 22. |
| 10632 | G | 26. | 26. | 27. | 25. | 28. | 25. | 22. | 23. | 25. |
| 10633 | G | 20. | 22. | 21. | 27. | 24. | 28. | 20. | 21. | 20. |
| 10635 | G | 20. | 23. | 22. | 24. | 28. | 17. | 19. | 20. | 20. |
| 10647 | G | 27. | 22. | 25. | 25. | 23. | 24. | 22. | 23. | 24. |
| 10649 | G | 18. | 22. | 25. | 23. | 22. | 20. | 21. | 20. | 19. |
| 10650 | G | 25. | 23. | 29. | 30. | 29. | 27. | 28. | 27. | 24. |
| 10652 | G | 20. | 24. | 24. | 28. | 26. | 22. | 22. | 23. | 22. |
| 10667 | G | 28. | 25. | 24. | 26. | 29. | 19. | 20. | 24. | 25. |
| 10671 | G | 24. | 21. | 28. | 26. | 24. | 24. | 19. | 21. | 22. |
| 10675 | G | 23. | 23. | 24. | 28. | 27. | 25. | 23. | 22. | 22. |
| 10697 | G | 25. | 25. | 28. | 31. | 26. | 29. | 24. | 25. | 26. |
| 10706 | G | 29. | 25. | 28. | 26. | 27. | 26. | 23. | 26. | 29. |
| 10711 | G | 23. | 27. | 25. | 25. | 27. | 25. | 22. | 23. | 24. |
| MEAN | | 24. | 23. | 25. | 26. | 26. | 24. | 21. | 22. | 23. |
| S.D. | | 3.0 | 3.7 | 2.7 | 2.5 | 2.8 | 3.1 | 2.4 | 2.4 | 2.6 |
| S.E. | | 0.6 | 0.8 | 0.6 | 0.5 | 0.6 | 0.7 | 0.5 | 0.5 | 0.5 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 3

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | |
| 10598 | G | 26. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10602 | G | 29. | 27. | SCHEDULED NECROPSY DAY 20 |
| 10604 | G | 26. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10607 | G | 24. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10609 | G | 22. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10612 | G | 23. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10624 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10626 | G | 26. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10629 | G | 21. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10632 | G | 26. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10633 | G | 24. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10635 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10647 | G | 24. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10649 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10650 | G | 28. | 27. | SCHEDULED NECROPSY DAY 20 |
| 10652 | G | 25. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10667 | G | 25. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10671 | G | 25. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10675 | G | 25. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10697 | G | 28. | 26. | SCHEDULED NECROPSY DAY 20 |
| 10706 | G | 26. | 26. | SCHEDULED NECROPSY DAY 20 |
| 10711 | G | 26. | 24. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 25. | 23. | |
| S.D. | | 2.1 | 2.1 | |
| S.E. | | 0.4 | 0.4 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | | | |
| 10589 | G | | 21. | 19. | 17. | 20. | 19. | 21. | 22. | 22. | 22. |
| 10596 | G | | 22. | 17. | 21. | 23. | 19. | 22. | 21. | 27. | 22. |
| 10600 | G | | 20. | 17. | 20. | 17. | 17. | 18. | 22. | 19. | 11. |
| 10603 | G | | 22. | 19. | 18. | 21. | 20. | 24. | 19. | 23. | 24. |
| 10618 | G | | 22. | 20. | 13. | 20. | 21. | 21. | 21. | 19. | 23. |
| 10619 | G | | 23. | 21. | 21. | 21. | 23. | 20. | 26. | 24. | 25. |
| 10623 | G | | 25. | 24. | 22. | 25. | 22. | 22. | 26. | 25. | 26. |
| 10625 | G | | 26. | 21. | 19. | 16. | 22. | 21. | 21. | 21. | 22. |
| 10636 | G | | NA | 22. | 20. | 20. | 23. | 19. | 24. | 24. | 26. |
| 10651 | G | | 26. | 26. | 24. | 26. | 31. | 23. | 29. | 23. | 26. |
| 10655 | G | | 20. | 18. | 17. | 17. | 16. | 19. | 19. | 12. | 20. |
| 10657 | G | | 23. | 16. | 22. | 21. | 20. | 20. | 19. | 21. | 20. |
| 10661 | G | | 21. | 20. | 19. | 17. | 17. | 18. | 23. | 19. | 19. |
| 10670 | G | | 25. | 23. | 23. | 24. | 23. | 24. | 27. | 25. | 23. |
| 10688 | G | | 20. | 19. | 17. | 17. | 19. | 19. | 19. | 20. | 18. |
| 10691 | G | | 23. | 20. | 24. | 19. | 19. | 22. | 22. | 24. | 21. |
| 10696 | G | | 24. | 19. | 21. | 20. | 21. | 27. | 21. | 25. | 24. |
| 10699 | G | | 19. | 14. | 16. | 16. | 19. | 17. | 19. | 18. | 19. |
| 10703 | G | | 22. | 18. | 18. | 19. | 19. | 20. | 22. | 21. | 21. |
| 10705 | G | | 22. | 21. | 19. | 19. | 22. | 20. | 20. | 23. | 21. |
| 10709 | G | | 21. | 20. | 20. | 20. | 18. | 17. | 22. | 20. | 21. |
| 10710 | G | | 19. | 18. | 16. | 18. | 16. | 20. | 18. | 19. | 17. |
| MEAN | | | 22. | 20. | 19. | 20. | 20. | 21. | 22. | 22. | 21. |
| S.D. | | | 2.1 | 2.7 | 2.8 | 2.8 | 3.2 | 2.4 | 2.9 | 3.3 | 3.5 |
| S.E. | | | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.7 | 0.7 |
| N | | | 21 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 5

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | | |
| 10589 | G | 21. | 27. | 26. | 23. | 28. | 25. | 19. | 21. | 22. |
| 10596 | G | 26. | 24. | 26. | 24. | 30. | 26. | 20. | 21. | 25. |
| 10600 | G | 18. | 22. | 23. | 21. | 21. | 19. | 18. | 19. | 16. |
| 10603 | G | 24. | 28. | 23. | 22. | 27. | 27. | 19. | 21. | 24. |
| 10618 | G | 23. | 23. | 23. | 20. | 22. | 21. | 18. | 21. | 22. |
| 10619 | G | 24. | 24. | 25. | 24. | 25. | 29. | 21. | 23. | 24. |
| 10623 | G | 26. | 34. | 31. | 35. | 27. | 28. | 24. | 23. | 26. |
| 10625 | G | 23. | 26. | 23. | 23. | 23. | 23. | 19. | 21. | 22. |
| 10636 | G | 24. | 24. | 28. | 26. | 26. | 25. | 21. | 22. | 25. |
| 10651 | G | 27. | 28. | 26. | 28. | 32. | 27. | 25. | 28. | 25. |
| 10655 | G | 19. | 24. | 21. | 25. | 21. | 22. | 17. | 18. | 17. |
| 10657 | G | 21. | 21. | 25. | 22. | 22. | 21. | 20. | 20. | 21. |
| 10661 | G | 19. | 22. | 20. | 24. | 23. | 21. | 19. | 19. | 19. |
| 10670 | G | 28. | 26. | 31. | 27. | 30. | 24. | 23. | 25. | 25. |
| 10688 | G | 22. | 22. | 23. | 23. | 24. | 21. | 18. | 19. | 20. |
| 10691 | G | 24. | 24. | 25. | 27. | 29. | 25. | 21. | 21. | 23. |
| 10696 | G | 26. | 25. | 27. | 27. | 32. | 29. | 20. | 23. | 25. |
| 10699 | G | 16. | 20. | 22. | 21. | 23. | 22. | 15. | 18. | 18. |
| 10703 | G | 22. | 24. | 23. | 25. | 22. | 24. | 18. | 20. | 21. |
| 10705 | G | 22. | 23. | 25. | 24. | 27. | 24. | 20. | 21. | 22. |
| 10709 | G | 24. | 23. | 15. | 24. | 23. | 23. | 20. | 19. | 22. |
| 10710 | G | 20. | 20. | 22. | 19. | 20. | 23. | 17. | 18. | 19. |
| MEAN | | 23. | 24. | 24. | 24. | 25. | 24. | 20. | 21. | 22. |
| S.D. | | 3.1 | 3.1 | 3.5 | 3.4 | 3.7 | 2.8 | 2.3 | 2.4 | 2.9 |
| S.E. | | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.6 | 0.5 | 0.5 | 0.6 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | |
| 10589 | G | 26. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10596 | G | 26. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10600 | G | 21. | 19. | SCHEDULED NECROPSY DAY 20 |
| 10603 | G | 25. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10618 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10619 | G | 25. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10623 | G | 31. | 27. | SCHEDULED NECROPSY DAY 20 |
| 10625 | G | 24. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10636 | G | 26. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10651 | G | 28. | 27. | SCHEDULED NECROPSY DAY 20 |
| 10655 | G | 23. | 19. | SCHEDULED NECROPSY DAY 20 |
| 10657 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10661 | G | 22. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10670 | G | 28. | 26. | SCHEDULED NECROPSY DAY 20 |
| 10688 | G | 23. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10691 | G | 26. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10696 | G | 28. | 25. | SCHEDULED NECROPSY DAY 20 |
| 10699 | G | 22. | 19. | SCHEDULED NECROPSY DAY 20 |
| 10703 | G | 24. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10705 | G | 25. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10709 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10710 | G | 21. | 19. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 25. | 22. | |
| S.D. | | 2.7 | 2.5 | |
| S.E. | | 0.6 | 0.5 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | | | |
| 10584 | G | | 23. | 19. | 22. | 18. | 22. | 20. | 20. | 20. | 21. |
| 10586 | G | | 22. | 18. | 24. | 18. | 21. | 23. | 21. | 23. | 18. |
| 10588 | G | | 25. | 21. | 23. | 19. | 19. | 22. | 28. | 27. | 27. |
| 10592 | G | | 21. | 13. | 12. | 14. | 13. | 16. | 17. | 19. | 21. |
| 10594 | G | | 22. | 14. | 23. | 19. | 18. | 20. | 20. | 24. | 21. |
| 10601 | G | | 23. | 18. | 16. | 20. | 18. | 20. | 23. | 20. | 22. |
| 10605 | G | | 21. | 18. | 21. | 19. | 21. | 21. | 24. | 22. | 23. |
| 10616 | G | | 24. | 20. | 15. | 22. | 18. | 22. | 20. | 25. | 21. |
| 10617 | G | | 25. | 20. | 21. | 19. | 21. | 22. | 21. | 22. | 24. |
| 10631 | G | | 24. | 18. | 23. | 19. | 23. | 21. | 27. | 21. | 22. |
| 10637 | G | | 21. | 18. | 21. | 17. | 18. | 18. | 22. | 20. | 19. |
| 10641 | G | | 21. | 17. | 18. | 18. | 19. | 19. | 20. | 24. | 20. |
| 10644 | G | | 21. | 16. | 17. | 18. | 17. | 18. | 19. | 21. | 20. |
| 10648 | G | | 27. | 23. | 22. | 27. | 22. | 26. | 27. | 25. | 23. |
| 10656 | G | | 24. | 19. | 23. | 25. | 24. | 23. | 27. | 30. | 21. |
| 10664 | G | | 27. | 21. | 21. | 20. | 26. | 22. | 26. | 27. | 22. |
| 10665 | G | | 21. | 19. | 21. | 22. | 21. | 25. | 22. | 30. | 20. |
| 10666 | G | | 22. | 17. | 18. | 19. | 20. | 19. | 23. | 22. | 22. |
| 10673 | G | | 25. | 18. | 22. | 22. | 20. | 21. | 22. | 21. | 27. |
| 10679 | G | | 21. | 19. | 20. | 19. | 19. | 22. | 19. | 19. | 20. |
| 10680 | G | | 24. | 18. | 23. | 16. | 19. | 20. | 20. | 24. | 19. |
| 10700 | G | | 23. | 20. | 18. | 17. | 17. | 20. | 18. | 19. | 22. |
| MEAN | | | 23. | 18. | 20. | 19. | 20. | 21. | 22. | 23. | 22. |
| S.D. | | | 1.9 | 2.2 | 3.1 | 2.9 | 2.8 | 2.3 | 3.2 | 3.3 | 2.3 |
| S.E. | | | 0.4 | 0.5 | 0.7 | 0.6 | 0.6 | 0.5 | 0.7 | 0.7 | 0.5 |
| N | | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | | |
| 10584 | G | 23. | 23. | 25. | 19. | 24. | 21. | 20. | 21. | 21. |
| 10586 | G | 24. | 25. | 23. | 25. | 21. | 23. | 20. | 22. | 22. |
| 10588 | G | 28. | 26. | 36. | 26. | 30. | 25. | 21. | 23. | 27. |
| 10592 | G | 21. | 22. | 22. | 19. | 24. | 23. | 13. | 15. | 20. |
| 10594 | G | 22. | 26. | 21. | 30. | 21. | 24. | 19. | 19. | 22. |
| 10601 | G | 24. | 23. | 24. | 22. | 23. | 19. | 18. | 20. | 22. |
| 10605 | G | 24. | 25. | 27. | 28. | 23. | 24. | 19. | 22. | 23. |
| 10616 | G | 24. | 25. | 22. | 24. | 26. | 24. | 19. | 20. | 23. |
| 10617 | G | 24. | 27. | 24. | 25. | 25. | 24. | 20. | 21. | 23. |
| 10631 | G | 24. | 24. | 28. | 24. | 23. | 21. | 20. | 24. | 22. |
| 10637 | G | 18. | 21. | 26. | 23. | 26. | 20. | 19. | 19. | 19. |
| 10641 | G | 23. | 21. | 22. | 20. | 22. | 22. | 18. | 19. | 22. |
| 10644 | G | 22. | 22. | 22. | 23. | 25. | 20. | 17. | 18. | 21. |
| 10648 | G | 26. | 24. | 31. | 26. | 27. | 29. | 24. | 25. | 25. |
| 10656 | G | 26. | 27. | 24. | 33. | 27. | 26. | 22. | 25. | 26. |
| 10664 | G | 27. | 26. | 27. | 25. | 31. | 28. | 21. | 25. | 25. |
| 10665 | G | 22. | 24. | 19. | 25. | 22. | 21. | 21. | 23. | 24. |
| 10666 | G | 17. | 24. | 25. | 24. | 22. | 21. | 18. | 21. | 20. |
| 10673 | G | 22. | 24. | 25. | 28. | 29. | 29. | 21. | 21. | 23. |
| 10679 | G | 23. | 16. | 23. | 27. | 23. | 23. | 19. | 20. | 21. |
| 10680 | G | 22. | 18. | 20. | 21. | 23. | 22. | 19. | 20. | 22. |
| 10700 | G | 21. | 24. | 22. | 24. | 22. | 21. | 18. | 18. | 21. |
| MEAN | | 23. | 24. | 24. | 25. | 25. | 23. | 19. | 21. | 22. |
| S.D. | | 2.6 | 2.7 | 3.8 | 3.4 | 2.9 | 2.8 | 2.1 | 2.6 | 2.0 |
| S.E. | | 0.5 | 0.6 | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | |
| 10584 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10586 | G | 23. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10588 | G | 29. | 26. | SCHEDULED NECROPSY DAY 20 |
| 10592 | G | 22. | 18. | SCHEDULED NECROPSY DAY 20 |
| 10594 | G | 24. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10601 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10605 | G | 25. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10616 | G | 24. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10617 | G | 25. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10631 | G | 24. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10637 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10641 | G | 21. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10644 | G | 22. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10648 | G | 27. | 26. | SCHEDULED NECROPSY DAY 20 |
| 10656 | G | 27. | 25. | SCHEDULED NECROPSY DAY 20 |
| 10664 | G | 27. | 25. | SCHEDULED NECROPSY DAY 20 |
| 10665 | G | 22. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10666 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10673 | G | 27. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10679 | G | 22. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10680 | G | 21. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10700 | G | 23. | 20. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 24. | 22. | |
| S.D. | | 2.3 | 2.1 | |
| S.E. | | 0.5 | 0.5 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 10

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | |
| 10582 | G | 22. | 22. | 19. | 21. | 17. | 20. | 18. | 21. | 19. |
| 10583 | G | 26. | 20. | 23. | 25. | 19. | 27. | 28. | 21. | 25. |
| 10585 | G | 24. | 20. | 19. | 20. | 23. | 26. | 22. | 25. | 26. |
| 10590 | G | 21. | 18. | 12. | 14. | 16. | 16. | 15. | 19. | 17. |
| 10595 | G | 24. | 19. | 20. | 20. | 16. | 19. | 22. | 20. | 18. |
| 10597 | G | 25. | 20. | 13. | 15. | 17. | 21. | 24. | 18. | 22. |
| 10599 | G | 25. | 22. | 22. | 19. | 26. | 23. | 24. | 20. | 20. |
| 10606 | G | 23. | 19. | 17. | 19. | 20. | 21. | 25. | 23. | 20. |
| 10630 | G | 23. | 16. | 20. | 21. | 22. | 21. | 24. | 25. | 24. |
| 10643 | G | 19. | 16. | 17. | 20. | 20. | 21. | 21. | 22. | 21. |
| 10658 | G | 20. | 14. | 16. | 16. | 18. | 21. | 17. | 19. | 21. |
| 10669 | G | 20. | 20. | 21. | 19. | 18. | 20. | 19. | 21. | 22. |
| 10672 | G | 21. | 16. | 16. | 18. | 20. | 19. | 21. | 20. | 22. |
| 10674 | G | 21. | 18. | 17. | 17. | 18. | 17. | 20. | 17. | 17. |
| 10676 | G | 24. | 17. | 22. | 20. | 20. | 24. | 20. | 23. | 25. |
| 10678 | G | 22. | 16. | 20. | 17. | 20. | 21. | 21. | 15. | 22. |
| 10681 | G | 22. | 18. | 19. | 22. | 17. | 21. | 19. | 19. | 22. |
| 10685 | G | 24. | 21. | 22. | 21. | 22. | 25. | 25. | 26. | 23. |
| 10687 | G | 24. | 18. | 22. | 14. | 23. | 21. | 21. | 28. | 18. |
| 10692 | G | 23. | 18. | 22. | 20. | 22. | 24. | 23. | 24. | 27. |
| 10694 | G | 21. | 12. | 13. | 12. | 16. | 19. | 15. | 19. | 21. |
| 10708 | G | 22. | 17. | 17. | 18. | 18. | 21. | 20. | 27. | 18. |
| MEAN | | 23. | 18. | 19. | 19. | 19. | 21. | 21. | 21. | 21. |
| S.D. | | 1.8 | 2.5 | 3.2 | 3.0 | 2.7 | 2.7 | 3.3 | 3.3 | 2.9 |
| S.E. | | 0.4 | 0.5 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | |
| 10582 | G | 21. | 24. | 24. | 25. | 20. | 24. | 21. | 18. | 20. |
| 10583 | G | 27. | 25. | 29. | 27. | 26. | 24. | 23. | 25. | 24. |
| 10585 | G | 25. | 28. | 25. | 30. | 24. | 29. | 20. | 24. | 25. |
| 10590 | G | 18. | 18. | 21. | 24. | 18. | 21. | 15. | 16. | 18. |
| 10595 | G | 19. | 21. | 20. | 22. | 22. | 19. | 20. | 19. | 19. |
| 10597 | G | 18. | 23. | 28. | 25. | 27. | 24. | 16. | 21. | 19. |
| 10599 | G | 22. | 26. | 29. | 33. | 26. | 27. | 21. | 24. | 21. |
| 10606 | G | 23. | 24. | 27. | 26. | 27. | 21. | 18. | 22. | 22. |
| 10630 | G | 27. | 26. | 28. | 24. | 28. | 25. | 19. | 22. | 25. |
| 10643 | G | 22. | 24. | 25. | 26. | 23. | 24. | 18. | 21. | 22. |
| 10658 | G | 20. | 22. | 23. | 22. | 21. | 23. | 15. | 19. | 20. |
| 10669 | G | 22. | 24. | 24. | 22. | 25. | 20. | 20. | 19. | 22. |
| 10672 | G | 22. | 22. | 22. | 19. | 21. | 19. | 17. | 20. | 21. |
| 10674 | G | 18. | 19. | 20. | 24. | 20. | 18. | 17. | 18. | 17. |
| 10676 | G | 22. | 27. | 24. | 23. | 24. | 23. | 20. | 21. | 23. |
| 10678 | G | 23. | 25. | 22. | 26. | 25. | 26. | 18. | 21. | 20. |
| 10681 | G | 16. | 23. | 20. | 25. | 23. | 26. | 20. | 19. | 19. |
| 10685 | G | 20. | 24. | 27. | 24. | 26. | 21. | 21. | 24. | 23. |
| 10687 | G | 23. | 21. | 26. | 27. | 28. | 26. | 18. | 22. | 23. |
| 10692 | G | 26. | 34. | 31. | 31. | 24. | 27. | 20. | 23. | 26. |
| 10694 | G | 21. | 25. | 17. | 20. | 22. | 19. | 12. | 17. | 20. |
| 10708 | G | 21. | 19. | 27. | 23. | 25. | 23. | 17. | 20. | 22. |
| MEAN | | 22. | 24. | 25. | 25. | 24. | 23. | 18. | 21. | 21. |
| S.D. | | 2.9 | 3.4 | 3.6 | 3.4 | 2.8 | 3.1 | 2.5 | 2.4 | 2.4 |
| S.E. | | 0.6 | 0.7 | 0.8 | 0.7 | 0.6 | 0.7 | 0.5 | 0.5 | 0.5 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | |
| 10582 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10583 | G | 26. | 25. | SCHEDULED NECROPSY DAY 20 |
| 10585 | G | 27. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10590 | G | 20. | 18. | SCHEDULED NECROPSY DAY 20 |
| 10595 | G | 21. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10597 | G | 25. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10599 | G | 28. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10606 | G | 25. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10630 | G | 26. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10643 | G | 24. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10658 | G | 22. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10669 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10672 | G | 21. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10674 | G | 20. | 19. | SCHEDULED NECROPSY DAY 20 |
| 10676 | G | 24. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10678 | G | 25. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10681 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10685 | G | 24. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10687 | G | 26. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10692 | G | 29. | 25. | SCHEDULED NECROPSY DAY 20 |
| 10694 | G | 21. | 18. | SCHEDULED NECROPSY DAY 20 |
| 10708 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 24. | 22. | |
| S.D. | | 2.5 | 2.0 | |
| S.E. | | 0.5 | 0.4 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | | |
| 10591 | G | | 31. | 21. | 19. | 19. | 18. | 15. | 23. | 20. | 20. |
| 10593 | G | | 24. | 15. | 20. | 20. | 17. | 19. | 20. | 23. | 23. |
| 10608 | G | | 21. | 19. | 14. | 14. | 17. | 23. | 21. | 21. | 20. |
| 10610 | G | | 23. | 13. | 14. | 14. | 18. | 23. | 19. | 20. | 22. |
| 10611 | G | | 24. | 11. | 15. | 16. | 18. | 17. | 18. | 20. | 18. |
| 10613 | G | | 23. | 14. | 17. | 17. | 18. | 20. | 22. | 21. | 20. |
| 10615 | G | | 25. | 18. | 20. | 19. | 20. | 22. | 23. | 21. | 25. |
| 10620 | G | | 25. | 16. | 18. | 16. | 20. | 21. | 21. | 22. | 21. |
| 10621 | G | | NA | 17. | 14. | 16. | 17. | 20. | 20. | 22. | 19. |
| 10627 | G | | 22. | 15. | 17. | 15. | 16. | 20. | 18. | 19. | 19. |
| 10628 | G | | NA | 9. | 13. | 15. | 17. | 21. | 21. | 20. | 18. |
| 10639 | G | | 23. | 17. | 21. | 16. | 19. | 23. | 22. | 24. | 21. |
| 10640 | G | | 25. | 16. | 20. | 22. | 21. | 21. | 24. | 31. | 24. |
| 10642 | G | | 22. | 12. | 11. | 17. | 17. | 19. | 22. | 20. | 21. |
| 10646 | G | | 23. | 16. | 16. | 14. | 15. | 16. | 19. | 19. | 21. |
| 10659 | G | | 24. | 21. | 16. | 16. | 20. | 19. | 20. | 22. | 21. |
| 10663 | G | | 23. | 12. | 19. | 20. | 20. | 23. | 24. | 25. | 22. |
| 10668 | G | | 27. | 16. | 18. | 17. | 7. | 8. | 24. | 21. | 27. |
| 10686 | G | | 25. | 16. | 20. | 19. | 16. | 16. | 18. | 21. | 24. |
| 10689 | G | | 22. | 19. | 16. | 20. | 20. | 21. | 22. | 23. | 21. |
| 10704 | G | | 21. | 20. | 13. | 17. | 19. | 19. | 17. | 21. | 19. |
| 10707 | G | | 23. | 15. | 11. | NA | NA | NA | NA | NA | NA |
| MEAN | | | 24. | 16. | 16. | 17. | 18. | 19. | 21. | 22. | 21. |
| S.D. | | | 2.3 | 3.2 | 3.0 | 2.3 | 2.9 | 3.5 | 2.2 | 2.6 | 2.3 |
| S.E. | | | 0.5 | 0.7 | 0.6 | 0.5 | 0.6 | 0.8 | 0.5 | 0.6 | 0.5 |
| N | | | 20 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A7

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | |
| 10591 | G | 20. | 19. | 19. | 18. | 21. | 18. | 20. | 19. | 20. |
| 10593 | G | 24. | 26. | 25. | 27. | 24. | 25. | 18. | 19. | 23. |
| 10608 | G | 22. | 23. | 28. | 25. | 28. | 21. | 16. | 20. | 21. |
| 10610 | G | 21. | 26. | 22. | 26. | 24. | 25. | 14. | 20. | 21. |
| 10611 | G | 20. | 23. | 23. | 23. | 22. | 23. | 14. | 18. | 19. |
| 10613 | G | 21. | 20. | 29. | 22. | 25. | 21. | 16. | 20. | 21. |
| 10615 | G | 24. | 26. | 26. | 27. | 27. | 23. | 19. | 22. | 23. |
| 10620 | G | 24. | 14. | 23. | 17. | 21. | 21. | 17. | 21. | 22. |
| 10621 | G | 20. | 26. | 23. | 25. | 24. | 25. | 16. | 19. | 20. |
| 10627 | G | 21. | 21. | 22. | 27. | 21. | 26. | 16. | 18. | 20. |
| 10628 | G | 18. | 20. | 21. | 20. | 21. | 17. | 12. | 20. | 19. |
| 10639 | G | 25. | 28. | 23. | 26. | 25. | 29. | 18. | 21. | 23. |
| 10640 | G | 23. | 25. | 24. | 29. | 27. | 27. | 19. | 22. | 26. |
| 10642 | G | 19. | 21. | 26. | 24. | 25. | 23. | 13. | 19. | 20. |
| 10646 | G | 18. | 18. | 20. | 27. | 19. | 19. | 15. | 17. | 19. |
| 10659 | G | 22. | 23. | 24. | 22. | 25. | 20. | 18. | 20. | 22. |
| 10663 | G | 26. | 25. | 26. | 27. | 27. | 22. | 17. | 22. | 24. |
| 10668 | G | 24. | 27. | 26. | 30. | 31. | 26. | 17. | 13. | 24. |
| 10686 | G | 20. | 23. | 21. | 26. | 26. | 24. | 18. | 17. | 22. |
| 10689 | G | 24. | 22. | 25. | 26. | 26. | 25. | 18. | 21. | 23. |
| 10704 | G | 19. | 20. | 22. | 25. | 23. | 21. | 17. | 18. | 20. |
| 10707 | G | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MEAN | | 22. | 23. | 24. | 25. | 24. | 23. | 17. | 19. | 22. |
| S.D. | | 2.4 | 3.5 | 2.6 | 3.3 | 2.9 | 3.1 | 2.1 | 2.1 | 1.9 |
| S.E. | | 0.5 | 0.8 | 0.6 | 0.7 | 0.6 | 0.7 | 0.5 | 0.5 | 0.4 |
| N | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | |
| 10591 | G | 19. | 19. | SCHEDULED NECROPSY DAY 20 |
| 10593 | G | 25. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10608 | G | 25. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10610 | G | 25. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10611 | G | 23. | 19. | SCHEDULED NECROPSY DAY 20 |
| 10613 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10615 | G | 26. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10620 | G | 19. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10621 | G | 25. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10627 | G | 23. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10628 | G | 20. | 18. | SCHEDULED NECROPSY DAY 20 |
| 10639 | G | 26. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10640 | G | 26. | 24. | SCHEDULED NECROPSY DAY 20 |
| 10642 | G | 24. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10646 | G | 21. | 18. | SCHEDULED NECROPSY DAY 20 |
| 10659 | G | 23. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10663 | G | 25. | 23. | SCHEDULED NECROPSY DAY 20 |
| 10668 | G | 28. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10686 | G | 24. | 21. | SCHEDULED NECROPSY DAY 20 |
| 10689 | G | 25. | 22. | SCHEDULED NECROPSY DAY 20 |
| 10704 | G | 22. | 20. | SCHEDULED NECROPSY DAY 20 |
| 10707 | G | NA | NA | GRAVID, DIED DAY 8 |
| MEAN | | 24. | 21. | |
| S.D. | | 2.4 | 1.6 | |
| S.E. | | 0.5 | 0.4 | |
| N | | 21 | 21 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | | | |
| 10598 | G | | 80. | 75. | 67. | 63. | 68. | 66. | 81. | 71. | 64. |
| 10602 | G | | 82. | 77. | 75. | 65. | 70. | 76. | 75. | 80. | 81. |
| 10604 | G | | 80. | 75. | 68. | 70. | 78. | 61. | 72. | 76. | 65. |
| 10607 | G | | 87. | 74. | 73. | 68. | 67. | 73. | 72. | 71. | 76. |
| 10609 | G | | 86. | 71. | 76. | 69. | 71. | 61. | 72. | 65. | 64. |
| 10612 | G | | 75. | 63. | 63. | 48. | 55. | 64. | 63. | 69. | 67. |
| 10624 | G | | 79. | 60. | 74. | 69. | 70. | 69. | 71. | 73. | 59. |
| 10626 | G | | 81. | 81. | 72. | 72. | 81. | 82. | 70. | 72. | 80. |
| 10629 | G | | 80. | 64. | 71. | 66. | 62. | 61. | 70. | 83. | 71. |
| 10632 | G | | 85. | 66. | 81. | 66. | 68. | 67. | 78. | 77. | 64. |
| 10633 | G | | 83. | 68. | 78. | 67. | 70. | 75. | 73. | 66. | 62. |
| 10635 | G | | 83. | 58. | 77. | 74. | 62. | 66. | 75. | 60. | 72. |
| 10647 | G | | 85. | 79. | 78. | 77. | 83. | 71. | 79. | 74. | 67. |
| 10649 | G | | 85. | 69. | 72. | 71. | 60. | 69. | 65. | 61. | 61. |
| 10650 | G | | 89. | 87. | 88. | 77. | 76. | 81. | 74. | 65. | 67. |
| 10652 | G | | 91. | 74. | 77. | 86. | 76. | 72. | 84. | 79. | 72. |
| 10667 | G | | 81. | 48. | 70. | 75. | 73. | 81. | 65. | 70. | 65. |
| 10671 | G | | 78. | 64. | 71. | 78. | 69. | 79. | 73. | 72. | 74. |
| 10675 | G | | 88. | 81. | 73. | 76. | 75. | 67. | 69. | 71. | 61. |
| 10697 | G | | 88. | 72. | 91. | 70. | 81. | 70. | 75. | 77. | 81. |
| 10706 | G | | 92. | 66. | 81. | 79. | 81. | 77. | 79. | 88. | 78. |
| 10711 | G | | 90. | 77. | 85. | 84. | 72. | 87. | 82. | 84. | 79. |
| MEAN | | | 84. | 70. | 76. | 71. | 71. | 72. | 74. | 73. | 70. |
| S.D. | | | 4.6 | 8.9 | 6.8 | 8.0 | 7.4 | 7.4 | 5.5 | 7.2 | 7.2 |
| S.E. | | | 1.0 | 1.9 | 1.4 | 1.7 | 1.6 | 1.6 | 1.2 | 1.5 | 1.5 |
| N | | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | | | | | | | |
| 10598 | G | 73. | 65. | 76. | 72. | 71. | 51. | 67. | 73. | 69. |
| 10602 | G | 81. | 73. | 79. | 76. | 72. | 59. | 72. | 74. | 81. |
| 10604 | G | 70. | 73. | 65. | 72. | 62. | 64. | 71. | 70. | 71. |
| 10607 | G | 72. | 82. | 70. | 71. | 68. | 63. | 73. | 70. | 73. |
| 10609 | G | 72. | 61. | 70. | 60. | 60. | 53. | 73. | 67. | 67. |
| 10612 | G | 72. | 72. | 70. | 78. | 60. | 56. | 59. | 61. | 70. |
| 10624 | G | 70. | 71. | 66. | 60. | 53. | 54. | 66. | 69. | 68. |
| 10626 | G | 75. | 79. | 76. | 70. | 71. | 63. | 76. | 79. | 77. |
| 10629 | G | 73. | 29. | 62. | 78. | 78. | 61. | 67. | 65. | 75. |
| 10632 | G | 73. | 71. | 72. | 64. | 68. | 58. | 71. | 70. | 72. |
| 10633 | G | 65. | 70. | 64. | 78. | 66. | 73. | 71. | 71. | 65. |
| 10635 | G | 64. | 72. | 66. | 68. | 75. | 44. | 68. | 68. | 65. |
| 10647 | G | 84. | 66. | 73. | 70. | 63. | 63. | 78. | 77. | 76. |
| 10649 | G | 56. | 67. | 73. | 64. | 59. | 52. | 72. | 66. | 61. |
| 10650 | G | 68. | 62. | 76. | 74. | 68. | 61. | 85. | 78. | 66. |
| 10652 | G | 64. | 75. | 72. | 80. | 71. | 57. | 80. | 79. | 72. |
| 10667 | G | 78. | 67. | 63. | 66. | 70. | 44. | 63. | 72. | 71. |
| 10671 | G | 78. | 67. | 86. | 76. | 67. | 65. | 71. | 75. | 74. |
| 10675 | G | 68. | 66. | 65. | 73. | 66. | 58. | 77. | 70. | 66. |
| 10697 | G | 70. | 68. | 74. | 80. | 65. | 71. | 77. | 77. | 75. |
| 10706 | G | 83. | 69. | 74. | 66. | 66. | 61. | 74. | 80. | 84. |
| 10711 | G | 74. | 84. | 75. | 73. | 75. | 66. | 81. | 80. | 79. |
| MEAN | | 72. | 69. | 71. | 71. | 67. | 59. | 72. | 72. | 72. |
| S.D. | | 6.6 | 10.6 | 5.9 | 6.1 | 5.9 | 7.4 | 6.1 | 5.3 | 5.7 |
| S.E. | | 1.4 | 2.3 | 1.3 | 1.3 | 1.3 | 1.6 | 1.3 | 1.1 | 1.2 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 1: 0 MG/KG/DAY | | | | |
| 10598 | G | 67. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10602 | G | 71. | 74. | SCHEDULED NECROPSY DAY 20 |
| 10604 | G | 67. | 70. | SCHEDULED NECROPSY DAY 20 |
| 10607 | G | 71. | 72. | SCHEDULED NECROPSY DAY 20 |
| 10609 | G | 59. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10612 | G | 66. | 65. | SCHEDULED NECROPSY DAY 20 |
| 10624 | G | 61. | 64. | SCHEDULED NECROPSY DAY 20 |
| 10626 | G | 72. | 75. | SCHEDULED NECROPSY DAY 20 |
| 10629 | G | 63. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10632 | G | 66. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10633 | G | 69. | 70. | SCHEDULED NECROPSY DAY 20 |
| 10635 | G | 65. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10647 | G | 67. | 72. | SCHEDULED NECROPSY DAY 20 |
| 10649 | G | 61. | 65. | SCHEDULED NECROPSY DAY 20 |
| 10650 | G | 69. | 73. | SCHEDULED NECROPSY DAY 20 |
| 10652 | G | 71. | 73. | SCHEDULED NECROPSY DAY 20 |
| 10667 | G | 63. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10671 | G | 73. | 72. | SCHEDULED NECROPSY DAY 20 |
| 10675 | G | 64. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10697 | G | 72. | 74. | SCHEDULED NECROPSY DAY 20 |
| 10706 | G | 66. | 74. | SCHEDULED NECROPSY DAY 20 |
| 10711 | G | 75. | 78. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 67. | 70. | |
| S.D. | | 4.3 | 3.9 | |
| S.E. | | 0.9 | 0.8 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 4

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | | | |
| 10589 | G | | 79. | 67. | 60. | 70. | 65. | 70. | 72. | 71. | 70. |
| 10596 | G | | 86. | 62. | 76. | 81. | 65. | 74. | 69. | 87. | 69. |
| 10600 | G | | 72. | 59. | 69. | 58. | 57. | 60. | 72. | 61. | 35. |
| 10603 | G | | 88. | 72. | 67. | 77. | 72. | 85. | 66. | 80. | 81. |
| 10618 | G | | 80. | 69. | 45. | 68. | 70. | 69. | 67. | 60. | 72. |
| 10619 | G | | 78. | 68. | 68. | 67. | 72. | 62. | 79. | 71. | 72. |
| 10623 | G | | 90. | 79. | 72. | 80. | 69. | 67. | 78. | 74. | 74. |
| 10625 | G | | 96. | 73. | 66. | 56. | 76. | 70. | 69. | 68. | 70. |
| 10636 | G | | NA | 73. | 66. | 65. | 73. | 60. | 74. | 72. | 76. |
| 10651 | G | | 91. | 85. | 77. | 82. | 95. | 69. | 86. | 68. | 75. |
| 10655 | G | | 80. | 67. | 63. | 63. | 59. | 70. | 68. | 42. | 69. |
| 10657 | G | | 87. | 57. | 78. | 73. | 68. | 66. | 62. | 69. | 65. |
| 10661 | G | | 80. | 72. | 67. | 59. | 59. | 61. | 77. | 62. | 61. |
| 10670 | G | | 86. | 75. | 74. | 77. | 72. | 74. | 81. | 73. | 66. |
| 10688 | G | | 77. | 70. | 63. | 63. | 69. | 68. | 67. | 69. | 61. |
| 10691 | G | | 80. | 66. | 78. | 61. | 61. | 69. | 67. | 72. | 63. |
| 10696 | G | | 84. | 64. | 71. | 67. | 69. | 85. | 65. | 77. | 73. |
| 10699 | G | | 78. | 56. | 63. | 62. | 73. | 64. | 69. | 64. | 67. |
| 10703 | G | | 85. | 65. | 64. | 67. | 66. | 69. | 74. | 70. | 69. |
| 10705 | G | | 81. | 73. | 66. | 65. | 74. | 65. | 64. | 73. | 66. |
| 10709 | G | | 77. | 70. | 69. | 69. | 61. | 57. | 72. | 64. | 67. |
| 10710 | G | | 77. | 70. | 62. | 69. | 61. | 75. | 66. | 68. | 60. |
| MEAN | | | 82. | 69. | 67. | 68. | 68. | 69. | 71. | 69. | 67. |
| S.D. | | | 5.8 | 6.8 | 7.4 | 7.5 | 8.1 | 7.1 | 6.1 | 8.6 | 8.9 |
| S.E. | | | 1.3 | 1.5 | 1.6 | 1.6 | 1.7 | 1.5 | 1.3 | 1.8 | 1.9 |
| N | | | 21 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 5

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | | | | | | | |
| 10589 | G | 65. | 81. | 74. | 63. | 73. | 62. | 67. | 70. | 70. |
| 10596 | G | 79. | 71. | 74. | 65. | 77. | 63. | 72. | 71. | 79. |
| 10600 | G | 56. | 67. | 67. | 59. | 56. | 49. | 62. | 63. | 51. |
| 10603 | G | 78. | 88. | 69. | 63. | 74. | 71. | 71. | 75. | 81. |
| 10618 | G | 70. | 68. | 67. | 56. | 59. | 54. | 62. | 69. | 68. |
| 10619 | G | 68. | 67. | 67. | 62. | 62. | 69. | 68. | 71. | 70. |
| 10623 | G | 72. | 90. | 79. | 85. | 62. | 61. | 78. | 71. | 74. |
| 10625 | G | 72. | 79. | 67. | 64. | 62. | 60. | 66. | 71. | 70. |
| 10636 | G | 69. | 67. | 75. | 66. | 63. | 58. | 69. | 69. | 73. |
| 10651 | G | 76. | 76. | 69. | 70. | 76. | 61. | 80. | 84. | 72. |
| 10655 | G | 64. | 78. | 66. | 76. | 61. | 62. | 63. | 66. | 59. |
| 10657 | G | 66. | 64. | 74. | 63. | 60. | 55. | 70. | 67. | 68. |
| 10661 | G | 61. | 69. | 61. | 70. | 63. | 55. | 67. | 65. | 61. |
| 10670 | G | 78. | 71. | 80. | 67. | 70. | 54. | 74. | 76. | 71. |
| 10688 | G | 73. | 71. | 72. | 68. | 68. | 56. | 67. | 68. | 68. |
| 10691 | G | 70. | 67. | 67. | 70. | 71. | 58. | 68. | 66. | 68. |
| 10696 | G | 77. | 71. | 74. | 72. | 81. | 70. | 67. | 73. | 75. |
| 10699 | G | 55. | 67. | 71. | 65. | 69. | 63. | 59. | 67. | 63. |
| 10703 | G | 70. | 75. | 70. | 72. | 61. | 64. | 64. | 69. | 68. |
| 10705 | G | 67. | 68. | 71. | 65. | 70. | 60. | 69. | 69. | 68. |
| 10709 | G | 74. | 68. | 44. | 69. | 62. | 59. | 70. | 64. | 69. |
| 10710 | G | 69. | 67. | 71. | 59. | 60. | 66. | 66. | 67. | 67. |
| MEAN | | 70. | 72. | 70. | 67. | 66. | 60. | 68. | 70. | 69. |
| S.D. | | 6.6 | 7.1 | 7.2 | 6.3 | 6.8 | 5.5 | 5.0 | 4.6 | 6.4 |
| S.E. | | 1.4 | 1.5 | 1.5 | 1.3 | 1.5 | 1.2 | 1.1 | 1.0 | 1.4 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 2: 400 MG/KG/DAY | | | | |
| 10589 | G | 71. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10596 | G | 70. | 71. | SCHEDULED NECROPSY DAY 20 |
| 10600 | G | 58. | 59. | SCHEDULED NECROPSY DAY 20 |
| 10603 | G | 72. | 75. | SCHEDULED NECROPSY DAY 20 |
| 10618 | G | 61. | 64. | SCHEDULED NECROPSY DAY 20 |
| 10619 | G | 64. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10623 | G | 75. | 75. | SCHEDULED NECROPSY DAY 20 |
| 10625 | G | 67. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10636 | G | 66. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10651 | G | 70. | 76. | SCHEDULED NECROPSY DAY 20 |
| 10655 | G | 69. | 64. | SCHEDULED NECROPSY DAY 20 |
| 10657 | G | 63. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10661 | G | 63. | 63. | SCHEDULED NECROPSY DAY 20 |
| 10670 | G | 69. | 73. | SCHEDULED NECROPSY DAY 20 |
| 10688 | G | 68. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10691 | G | 66. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10696 | G | 74. | 74. | SCHEDULED NECROPSY DAY 20 |
| 10699 | G | 68. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10703 | G | 69. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10705 | G | 68. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10709 | G | 62. | 65. | SCHEDULED NECROPSY DAY 20 |
| 10710 | G | 65. | 65. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 67. | 68. | |
| S.D. | | 4.2 | 4.4 | |
| S.E. | | 0.9 | 0.9 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 7

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | | | |
| 10584 | G | | 81. | 63. | 72. | 59. | 70. | 63. | 62. | 61. | 63. |
| 10586 | G | | 79. | 61. | 82. | 61. | 71. | 76. | 68. | 73. | 57. |
| 10588 | G | | 91. | 70. | 77. | 63. | 63. | 72. | 89. | 83. | 81. |
| 10592 | G | | 82. | 49. | 46. | 54. | 49. | 59. | 62. | 68. | 73. |
| 10594 | G | | 88. | 52. | 85. | 69. | 65. | 71. | 70. | 82. | 71. |
| 10601 | G | | 86. | 63. | 56. | 70. | 62. | 68. | 77. | 66. | 70. |
| 10605 | G | | 84. | 68. | 79. | 71. | 77. | 76. | 84. | 75. | 77. |
| 10616 | G | | 90. | 69. | 53. | 77. | 61. | 74. | 66. | 80. | 66. |
| 10617 | G | | 86. | 65. | 68. | 61. | 67. | 69. | 64. | 67. | 72. |
| 10631 | G | | 90. | 64. | 81. | 66. | 79. | 70. | 89. | 68. | 70. |
| 10637 | G | | 88. | 69. | 80. | 65. | 68. | 67. | 80. | 71. | 66. |
| 10641 | G | | 82. | 63. | 67. | 66. | 69. | 68. | 70. | 81. | 66. |
| 10644 | G | | 82. | 59. | 62. | 65. | 61. | 64. | 67. | 72. | 67. |
| 10648 | G | | 92. | 72. | 69. | 83. | 66. | 77. | 78. | 71. | 64. |
| 10656 | G | | 83. | 61. | 74. | 78. | 73. | 68. | 79. | 86. | 59. |
| 10664 | G | | 95. | 69. | 69. | 65. | 84. | 69. | 79. | 80. | 65. |
| 10665 | G | | 71. | 62. | 68. | 71. | 66. | 78. | 67. | 89. | 58. |
| 10666 | G | | 82. | 61. | 65. | 68. | 71. | 67. | 79. | 74. | 73. |
| 10673 | G | | 84. | 57. | 71. | 70. | 63. | 65. | 66. | 62. | 79. |
| 10679 | G | | 81. | 69. | 72. | 68. | 67. | 76. | 65. | 64. | 67. |
| 10680 | G | | 91. | 64. | 82. | 56. | 66. | 68. | 67. | 79. | 61. |
| 10700 | G | | 88. | 73. | 66. | 62. | 61. | 71. | 63. | 66. | 74. |
| MEAN | | | 85. | 64. | 70. | 67. | 67. | 70. | 72. | 74. | 68. |
| S.D. | | | 5.4 | 6.1 | 9.9 | 6.9 | 7.3 | 4.9 | 8.6 | 8.0 | 6.6 |
| S.E. | | | 1.1 | 1.3 | 2.1 | 1.5 | 1.5 | 1.0 | 1.8 | 1.7 | 1.4 |
| N | | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | | | | | | | |
| 10584 | G | 66. | 65. | 68. | 50. | 61. | 51. | 66. | 66. | 62. |
| 10586 | G | 74. | 75. | 66. | 70. | 57. | 60. | 68. | 73. | 69. |
| 10588 | G | 82. | 74. | 98. | 68. | 75. | 61. | 70. | 75. | 81. |
| 10592 | G | 71. | 72. | 69. | 57. | 69. | 63. | 49. | 56. | 69. |
| 10594 | G | 73. | 84. | 66. | 90. | 60. | 66. | 70. | 68. | 74. |
| 10601 | G | 74. | 69. | 70. | 62. | 62. | 50. | 63. | 68. | 70. |
| 10605 | G | 78. | 79. | 83. | 82. | 65. | 65. | 71. | 79. | 76. |
| 10616 | G | 74. | 74. | 63. | 66. | 68. | 60. | 66. | 67. | 72. |
| 10617 | G | 70. | 77. | 66. | 67. | 64. | 59. | 65. | 65. | 69. |
| 10631 | G | 75. | 72. | 81. | 66. | 61. | 54. | 70. | 81. | 70. |
| 10637 | G | 61. | 70. | 83. | 70. | 75. | 56. | 73. | 70. | 66. |
| 10641 | G | 75. | 66. | 67. | 58. | 62. | 60. | 67. | 68. | 73. |
| 10644 | G | 72. | 70. | 68. | 68. | 70. | 54. | 62. | 64. | 70. |
| 10648 | G | 71. | 64. | 79. | 64. | 64. | 66. | 74. | 74. | 70. |
| 10656 | G | 72. | 72. | 62. | 81. | 63. | 59. | 70. | 75. | 73. |
| 10664 | G | 79. | 74. | 73. | 65. | 76. | 65. | 69. | 78. | 74. |
| 10665 | G | 64. | 68. | 52. | 66. | 56. | 51. | 68. | 71. | 71. |
| 10666 | G | 55. | 75. | 75. | 69. | 61. | 56. | 65. | 73. | 66. |
| 10673 | G | 63. | 67. | 67. | 72. | 71. | 68. | 67. | 65. | 67. |
| 10679 | G | 75. | 51. | 70. | 78. | 64. | 61. | 68. | 69. | 69. |
| 10680 | G | 70. | 56. | 60. | 60. | 63. | 58. | 67. | 68. | 71. |
| 10700 | G | 69. | 76. | 67. | 71. | 62. | 57. | 66. | 64. | 71. |
| MEAN | | 71. | 70. | 71. | 68. | 65. | 59. | 67. | 70. | 71. |
| S.D. | | 6.2 | 7.3 | 9.7 | 8.9 | 5.6 | 5.2 | 5.0 | 5.8 | 3.9 |
| S.E. | | 1.3 | 1.6 | 2.1 | 1.9 | 1.2 | 1.1 | 1.1 | 1.2 | 0.8 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 3: 800 MG/KG/DAY | | | | |
| 10584 | G | 58. | 61. | SCHEDULED NECROPSY DAY 20 |
| 10586 | G | 64. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10588 | G | 76. | 76. | SCHEDULED NECROPSY DAY 20 |
| 10592 | G | 66. | 61. | SCHEDULED NECROPSY DAY 20 |
| 10594 | G | 72. | 73. | SCHEDULED NECROPSY DAY 20 |
| 10601 | G | 62. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10605 | G | 73. | 76. | SCHEDULED NECROPSY DAY 20 |
| 10616 | G | 66. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10617 | G | 66. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10631 | G | 66. | 71. | SCHEDULED NECROPSY DAY 20 |
| 10637 | G | 70. | 71. | SCHEDULED NECROPSY DAY 20 |
| 10641 | G | 61. | 65. | SCHEDULED NECROPSY DAY 20 |
| 10644 | G | 65. | 65. | SCHEDULED NECROPSY DAY 20 |
| 10648 | G | 66. | 71. | SCHEDULED NECROPSY DAY 20 |
| 10656 | G | 66. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10664 | G | 69. | 72. | SCHEDULED NECROPSY DAY 20 |
| 10665 | G | 58. | 64. | SCHEDULED NECROPSY DAY 20 |
| 10666 | G | 66. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10673 | G | 69. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10679 | G | 64. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10680 | G | 60. | 63. | SCHEDULED NECROPSY DAY 20 |
| 10700 | G | 68. | 66. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 66. | 68. | |
| S.D. | | 4.6 | 4.2 | |
| S.E. | | 1.0 | 0.9 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | |
| 10582 | G | 81. | 76. | 66. | 73. | 58. | 67. | 59. | 68. | 61. |
| 10583 | G | 87. | 63. | 72. | 76. | 58. | 81. | 81. | 60. | 70. |
| 10585 | G | 86. | 68. | 64. | 67. | 76. | 84. | 70. | 77. | 79. |
| 10590 | G | 82. | 67. | 45. | 52. | 60. | 59. | 54. | 68. | 60. |
| 10595 | G | 89. | 66. | 70. | 70. | 56. | 65. | 74. | 66. | 58. |
| 10597 | G | 87. | 64. | 42. | 49. | 55. | 67. | 75. | 56. | 67. |
| 10599 | G | 86. | 70. | 69. | 60. | 81. | 69. | 71. | 59. | 59. |
| 10606 | G | 87. | 68. | 60. | 66. | 69. | 71. | 83. | 75. | 64. |
| 10630 | G | 81. | 53. | 67. | 69. | 71. | 66. | 74. | 74. | 70. |
| 10643 | G | 75. | 61. | 65. | 75. | 73. | 76. | 74. | 75. | 70. |
| 10658 | G | 77. | 52. | 60. | 61. | 67. | 76. | 61. | 67. | 73. |
| 10669 | G | 76. | 73. | 76. | 68. | 63. | 69. | 65. | 70. | 72. |
| 10672 | G | 85. | 61. | 61. | 68. | 74. | 69. | 74. | 70. | 76. |
| 10674 | G | 79. | 64. | 61. | 61. | 64. | 60. | 69. | 58. | 57. |
| 10676 | G | 80. | 55. | 70. | 63. | 63. | 75. | 61. | 69. | 74. |
| 10678 | G | 89. | 61. | 77. | 65. | 75. | 78. | 77. | 54. | 77. |
| 10681 | G | 86. | 66. | 70. | 80. | 61. | 74. | 66. | 66. | 75. |
| 10685 | G | 88. | 73. | 77. | 73. | 76. | 84. | 81. | 82. | 71. |
| 10687 | G | 82. | 59. | 72. | 46. | 74. | 66. | 65. | 86. | 54. |
| 10692 | G | 86. | 63. | 77. | 68. | 74. | 79. | 75. | 76. | 84. |
| 10694 | G | 85. | 47. | 51. | 47. | 62. | 72. | 56. | 70. | 75. |
| 10708 | G | 82. | 62. | 62. | 63. | 62. | 72. | 67. | 88. | 57. |
| MEAN | | 83. | 63. | 65. | 65. | 67. | 72. | 70. | 70. | 68. |
| S.D. | | 4.2 | 7.1 | 9.7 | 9.3 | 7.6 | 6.9 | 8.1 | 9.1 | 8.4 |
| S.E. | | 0.9 | 1.5 | 2.1 | 2.0 | 1.6 | 1.5 | 1.7 | 1.9 | 1.8 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | |
| 10582 | G | 66. | 73. | 70. | 70. | 54. | 63. | 73. | 60. | 64. |
| 10583 | G | 74. | 66. | 75. | 67. | 63. | 55. | 72. | 74. | 67. |
| 10585 | G | 74. | 80. | 70. | 80. | 62. | 72. | 67. | 77. | 76. |
| 10590 | G | 62. | 60. | 67. | 73. | 53. | 59. | 56. | 59. | 63. |
| 10595 | G | 60. | 65. | 60. | 63. | 60. | 50. | 70. | 65. | 61. |
| 10597 | G | 54. | 67. | 78. | 67. | 69. | 59. | 52. | 67. | 58. |
| 10599 | G | 63. | 72. | 77. | 84. | 63. | 63. | 67. | 73. | 61. |
| 10606 | G | 72. | 73. | 78. | 72. | 71. | 53. | 64. | 75. | 70. |
| 10630 | G | 78. | 72. | 75. | 62. | 69. | 60. | 63. | 69. | 73. |
| 10643 | G | 73. | 77. | 76. | 76. | 64. | 65. | 68. | 76. | 74. |
| 10658 | G | 68. | 73. | 73. | 66. | 61. | 65. | 56. | 69. | 69. |
| 10669 | G | 71. | 75. | 73. | 65. | 70. | 53. | 72. | 66. | 72. |
| 10672 | G | 74. | 72. | 69. | 58. | 61. | 52. | 64. | 72. | 72. |
| 10674 | G | 60. | 62. | 62. | 72. | 57. | 50. | 61. | 63. | 57. |
| 10676 | G | 64. | 76. | 65. | 60. | 61. | 56. | 64. | 65. | 68. |
| 10678 | G | 78. | 83. | 71. | 80. | 73. | 73. | 69. | 78. | 70. |
| 10681 | G | 53. | 75. | 64. | 77. | 67. | 73. | 74. | 67. | 64. |
| 10685 | G | 61. | 71. | 77. | 65. | 67. | 52. | 73. | 80. | 71. |
| 10687 | G | 67. | 60. | 72. | 72. | 71. | 63. | 59. | 70. | 69. |
| 10692 | G | 79. | 99. | 87. | 83. | 62. | 68. | 69. | 76. | 81. |
| 10694 | G | 73. | 84. | 54. | 62. | 66. | 55. | 47. | 65. | 71. |
| 10708 | G | 66. | 58. | 80. | 65. | 67. | 58. | 61. | 68. | 70. |
| MEAN | | 68. | 72. | 72. | 70. | 64. | 60. | 65. | 70. | 68. |
| S.D. | | 7.5 | 9.3 | 7.4 | 7.6 | 5.4 | 7.3 | 7.3 | 5.9 | 5.9 |
| S.E. | | 1.6 | 2.0 | 1.6 | 1.6 | 1.2 | 1.6 | 1.5 | 1.3 | 1.3 |
| N | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 4: 1000 MG/KG/DAY | | | | |
| 10582 | G | 64. | 65. | SCHEDULED NECROPSY DAY 20 |
| 10583 | G | 64. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10585 | G | 72. | 71. | SCHEDULED NECROPSY DAY 20 |
| 10590 | G | 61. | 61. | SCHEDULED NECROPSY DAY 20 |
| 10595 | G | 60. | 63. | SCHEDULED NECROPSY DAY 20 |
| 10597 | G | 67. | 62. | SCHEDULED NECROPSY DAY 20 |
| 10599 | G | 71. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10606 | G | 69. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10630 | G | 67. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10643 | G | 70. | 72. | SCHEDULED NECROPSY DAY 20 |
| 10658 | G | 67. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10669 | G | 67. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10672 | G | 63. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10674 | G | 60. | 62. | SCHEDULED NECROPSY DAY 20 |
| 10676 | G | 63. | 64. | SCHEDULED NECROPSY DAY 20 |
| 10678 | G | 76. | 72. | SCHEDULED NECROPSY DAY 20 |
| 10681 | G | 70. | 70. | SCHEDULED NECROPSY DAY 20 |
| 10685 | G | 65. | 70. | SCHEDULED NECROPSY DAY 20 |
| 10687 | G | 68. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10692 | G | 78. | 76. | SCHEDULED NECROPSY DAY 20 |
| 10694 | G | 65. | 63. | SCHEDULED NECROPSY DAY 20 |
| 10708 | G | 64. | 66. | SCHEDULED NECROPSY DAY 20 |
| MEAN | | 67. | 67. | |
| S.D. | | 4.7 | 3.8 | |
| S.E. | | 1.0 | 0.8 | |
| N | | 22 | 22 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 13

SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY | 0- 6 | 6- 7 | 7- 8 | 8- 9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | | |
| 10591 | G | | 100. | 63. | 58. | 58. | 55. | 46. | 69. | 59. | 58. |
| 10593 | G | | 84. | 50. | 67. | 67. | 57. | 63. | 66. | 75. | 73. |
| 10608 | G | | 79. | 67. | 50. | 50. | 60. | 79. | 70. | 69. | 65. |
| 10610 | G | | 88. | 48. | 53. | 52. | 67. | 83. | 67. | 69. | 75. |
| 10611 | G | | 88. | 38. | 53. | 57. | 63. | 59. | 62. | 68. | 60. |
| 10613 | G | | 83. | 48. | 59. | 58. | 59. | 65. | 70. | 65. | 61. |
| 10615 | G | | 90. | 60. | 66. | 63. | 65. | 70. | 72. | 64. | 75. |
| 10620 | G | | 101. | 62. | 69. | 62. | 77. | 78. | 76. | 80. | 75. |
| 10621 | G | | NA | 64. | 54. | 61. | 64. | 75. | 73. | 78. | 66. |
| 10627 | G | | 85. | 55. | 62. | 54. | 58. | 71. | 63. | 65. | 64. |
| 10628 | G | | NA | 35. | 51. | 58. | 64. | 77. | 74. | 69. | 61. |
| 10639 | G | | 87. | 61. | 75. | 57. | 67. | 80. | 75. | 79. | 68. |
| 10640 | G | | 87. | 52. | 65. | 71. | 66. | 64. | 72. | 91. | 69. |
| 10642 | G | | 88. | 45. | 43. | 65. | 63. | 69. | 78. | 69. | 71. |
| 10646 | G | | 92. | 59. | 59. | 52. | 56. | 59. | 69. | 68. | 73. |
| 10659 | G | | 84. | 70. | 54. | 54. | 66. | 62. | 64. | 69. | 65. |
| 10663 | G | | 82. | 40. | 65. | 67. | 66. | 73. | 75. | 76. | 65. |
| 10668 | G | | 99. | 56. | 63. | 59. | 25. | 30. | 87. | 73. | 92. |
| 10686 | G | | 91. | 55. | 71. | 69. | 58. | 58. | 64. | 73. | 81. |
| 10689 | G | | 80. | 66. | 56. | 70. | 69. | 70. | 72. | 74. | 66. |
| 10704 | G | | 83. | 76. | 50. | 65. | 71. | 70. | 62. | 76. | 68. |
| 10707 | G | | 88. | 55. | 41. | NA | NA | NA | NA | NA | NA |
| MEAN | | | 88. | 56. | 58. | 60. | 62. | 67. | 70. | 72. | 69. |
| S.D. | | | 6.2 | 10.6 | 8.8 | 6.3 | 10.0 | 12.3 | 6.1 | 6.9 | 7.9 |
| S.E. | | | 1.4 | 2.2 | 1.9 | 1.4 | 2.2 | 2.7 | 1.3 | 1.5 | 1.7 |
| N | | | 20 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A8

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

| | PREGNANCY STATUS | DAY 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 6- 9 | 9-12 | 12-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | |
| 10591 | G | 57. | 52. | 51. | 47. | 53. | 44. | 60. | 57. | 58. |
| 10593 | G | 74. | 78. | 72. | 75. | 63. | 63. | 60. | 63. | 73. |
| 10608 | G | 69. | 69. | 80. | 68. | 73. | 53. | 57. | 69. | 68. |
| 10610 | G | 70. | 83. | 67. | 76. | 67. | 67. | 52. | 72. | 71. |
| 10611 | G | 66. | 74. | 72. | 69. | 63. | 64. | 49. | 63. | 64. |
| 10613 | G | 63. | 59. | 82. | 60. | 65. | 53. | 55. | 65. | 64. |
| 10615 | G | 70. | 73. | 70. | 70. | 67. | 55. | 63. | 70. | 69. |
| 10620 | G | 84. | 49. | 78. | 56. | 66. | 63. | 65. | 78. | 79. |
| 10621 | G | 68. | 85. | 72. | 75. | 69. | 68. | 61. | 71. | 70. |
| 10627 | G | 70. | 68. | 68. | 79. | 60. | 71. | 58. | 64. | 67. |
| 10628 | G | 60. | 66. | 67. | 62. | 62. | 49. | 47. | 73. | 65. |
| 10639 | G | 80. | 86. | 69. | 76. | 69. | 77. | 64. | 73. | 75. |
| 10640 | G | 65. | 69. | 64. | 75. | 67. | 64. | 62. | 67. | 75. |
| 10642 | G | 64. | 68. | 81. | 72. | 72. | 64. | 50. | 69. | 68. |
| 10646 | G | 61. | 60. | 65. | 84. | 57. | 54. | 56. | 63. | 66. |
| 10659 | G | 67. | 68. | 68. | 60. | 65. | 51. | 60. | 65. | 68. |
| 10663 | G | 75. | 70. | 71. | 70. | 67. | 52. | 57. | 70. | 71. |
| 10668 | G | 80. | 88. | 82. | 91. | 89. | 71. | 59. | 47. | 82. |
| 10686 | G | 67. | 75. | 65. | 77. | 74. | 65. | 64. | 61. | 75. |
| 10689 | G | 74. | 66. | 72. | 72. | 69. | 63. | 63. | 70. | 73. |
| 10704 | G | 65. | 66. | 70. | 76. | 67. | 59. | 65. | 66. | 70. |
| 10707 | G | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MEAN | | 69. | 70. | 71. | 71. | 67. | 60. | 58. | 66. | 70. |
| S.D. | | 6.9 | 10.3 | 7.3 | 9.8 | 7.1 | 8.4 | 5.3 | 6.6 | 5.5 |
| S.E. | | 1.5 | 2.3 | 1.6 | 2.1 | 1.6 | 1.8 | 1.2 | 1.4 | 1.2 |
| N | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

| | PREGNANCY STATUS | DAY 15-20 | 6-20 | |
|---|---|---|---|---|
| DAMS FROM GROUP 5: 1600 MG/KG/DAY | | | | |
| 10591 | G | 49. | 54. | SCHEDULED NECROPSY DAY 20 |
| 10593 | G | 69. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10608 | G | 68. | 65. | SCHEDULED NECROPSY DAY 20 |
| 10610 | G | 73. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10611 | G | 69. | 62. | SCHEDULED NECROPSY DAY 20 |
| 10613 | G | 62. | 63. | SCHEDULED NECROPSY DAY 20 |
| 10615 | G | 67. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10620 | G | 62. | 70. | SCHEDULED NECROPSY DAY 20 |
| 10621 | G | 75. | 71. | SCHEDULED NECROPSY DAY 20 |
| 10627 | G | 68. | 66. | SCHEDULED NECROPSY DAY 20 |
| 10628 | G | 62. | 61. | SCHEDULED NECROPSY DAY 20 |
| 10639 | G | 75. | 73. | SCHEDULED NECROPSY DAY 20 |
| 10640 | G | 66. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10642 | G | 72. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10646 | G | 65. | 61. | SCHEDULED NECROPSY DAY 20 |
| 10659 | G | 63. | 63. | SCHEDULED NECROPSY DAY 20 |
| 10663 | G | 65. | 67. | SCHEDULED NECROPSY DAY 20 |
| 10668 | G | 84. | 72. | SCHEDULED NECROPSY DAY 20 |
| 10686 | G | 71. | 69. | SCHEDULED NECROPSY DAY 20 |
| 10689 | G | 68. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10704 | G | 67. | 68. | SCHEDULED NECROPSY DAY 20 |
| 10707 | G | NA | NA | GRAVID, DIED DAY 8 |
| MEAN | | 68. | 66. | |
| S.D. | | 6.8 | 4.4 | |
| S.E. | | 1.5 | 1.0 | |
| N | | 21 | 21 | |

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN
NA = NOT APPLICABLE

TABLE A9

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL INDIVIDUAL MATERNAL MACROSCOPIC FINDINGS

| DAMS FROM GROUP 1: 0 MG/KG/DAY | MATERNAL GROSS OBSERVATION |
|---|---|
| 10598 | NO SIGNIFICANT CHANGES OBSERVED |
| 10602 | THYMUS: AREA(S), DARK RED<br>ONE, 4 MM IN DIAMETER |
| 10604 | NO SIGNIFICANT CHANGES OBSERVED |
| 10607 | NO SIGNIFICANT CHANGES OBSERVED |
| 10609 | NO SIGNIFICANT CHANGES OBSERVED |
| 10612 | NO SIGNIFICANT CHANGES OBSERVED |
| 10624 | NO SIGNIFICANT CHANGES OBSERVED |
| 10626 | NO SIGNIFICANT CHANGES OBSERVED |
| 10629 | NO SIGNIFICANT CHANGES OBSERVED |
| 10632 | NO SIGNIFICANT CHANGES OBSERVED |
| 10633 | NO SIGNIFICANT CHANGES OBSERVED |
| 10635 | NO SIGNIFICANT CHANGES OBSERVED |
| 10647 | NO SIGNIFICANT CHANGES OBSERVED |
| 10649 | NO SIGNIFICANT CHANGES OBSERVED |
| 10650 | NO SIGNIFICANT CHANGES OBSERVED |
| 10652 | NO SIGNIFICANT CHANGES OBSERVED |
| 10667 | NO SIGNIFICANT CHANGES OBSERVED |
| 10671 | NO SIGNIFICANT CHANGES OBSERVED |
| 10675 | NO SIGNIFICANT CHANGES OBSERVED |
| 10697 | THYMUS: ENLARGED |
| 10706 | NO SIGNIFICANT CHANGES OBSERVED |
| 10711 | NO SIGNIFICANT CHANGES OBSERVED |

TABLE A9

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL MATERNAL MACROSCOPIC FINDINGS

| DAMS FROM GROUP 2: 400 MG/KG/DAY | MATERNAL GROSS OBSERVATION |
|---|---|
| 10589 | NO SIGNIFICANT CHANGES OBSERVED |
| 10596 | NO SIGNIFICANT CHANGES OBSERVED |
| 10600 | NO SIGNIFICANT CHANGES OBSERVED |
| 10603 | NO SIGNIFICANT CHANGES OBSERVED |
| 10618 | NO SIGNIFICANT CHANGES OBSERVED |
| 10619 | NO SIGNIFICANT CHANGES OBSERVED |
| 10623 | NO SIGNIFICANT CHANGES OBSERVED |
| 10625 | NO SIGNIFICANT CHANGES OBSERVED |
| 10636 | NO SIGNIFICANT CHANGES OBSERVED |
| 10651 | NO SIGNIFICANT CHANGES OBSERVED |
| 10655 | NO SIGNIFICANT CHANGES OBSERVED |
| 10657 | NO SIGNIFICANT CHANGES OBSERVED |
| 10661 | NO SIGNIFICANT CHANGES OBSERVED |
| 10670 | NO SIGNIFICANT CHANGES OBSERVED |
| 10688 | NO SIGNIFICANT CHANGES OBSERVED |
| 10691 | NO SIGNIFICANT CHANGES OBSERVED |
| 10696 | NO SIGNIFICANT CHANGES OBSERVED |
| 10699 | NO SIGNIFICANT CHANGES OBSERVED |
| 10703 | UTERUS: CONTENTS, DARK RED<br>SURROUNDS SITES #8 AND #13 |
| 10705 | UTERUS: CONTENTS, DARK RED<br>SURROUNDS SITES #7 THROUGH #12 |
| 10709 | NO SIGNIFICANT CHANGES OBSERVED |
| 10710 | NO SIGNIFICANT CHANGES OBSERVED |

TABLE A9

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 3

SPONSOR:LYONDELLBASELL INDIVIDUAL MATERNAL MACROSCOPIC FINDINGS

| DAMS FROM GROUP 3: 800 MG/KG/DAY | MATERNAL GROSS OBSERVATION |
|---|---|
| 10584 | NO SIGNIFICANT CHANGES OBSERVED |
| 10586 | NO SIGNIFICANT CHANGES OBSERVED |
| 10588 | NO SIGNIFICANT CHANGES OBSERVED |
| 10592 | NO SIGNIFICANT CHANGES OBSERVED |
| 10594 | NO SIGNIFICANT CHANGES OBSERVED |
| 10601 | NO SIGNIFICANT CHANGES OBSERVED |
| 10605 | NO SIGNIFICANT CHANGES OBSERVED |
| 10616 | NO SIGNIFICANT CHANGES OBSERVED |
| 10617 | NO SIGNIFICANT CHANGES OBSERVED |
| 10631 | NO SIGNIFICANT CHANGES OBSERVED |
| 10637 | NO SIGNIFICANT CHANGES OBSERVED |
| 10641 | NO SIGNIFICANT CHANGES OBSERVED |
| 10644 | NO SIGNIFICANT CHANGES OBSERVED |
| 10648 | NO SIGNIFICANT CHANGES OBSERVED |
| 10656 | NO SIGNIFICANT CHANGES OBSERVED |
| 10664 | NO SIGNIFICANT CHANGES OBSERVED |
| 10665 | NO SIGNIFICANT CHANGES OBSERVED |
| 10666 | NO SIGNIFICANT CHANGES OBSERVED |
| 10673 | NO SIGNIFICANT CHANGES OBSERVED |
| 10679 | NO SIGNIFICANT CHANGES OBSERVED |
| 10680 | NO SIGNIFICANT CHANGES OBSERVED |
| 10700 | NO SIGNIFICANT CHANGES OBSERVED |

| DAMS FROM GROUP 4: 1000 MG/KG/DAY | MATERNAL GROSS OBSERVATION |
|---|---|
| 10582 | NO SIGNIFICANT CHANGES OBSERVED |
| 10583 | NO SIGNIFICANT CHANGES OBSERVED |
| 10585 | NO SIGNIFICANT CHANGES OBSERVED |
| 10590 | NO SIGNIFICANT CHANGES OBSERVED |
| 10595 | PLACENTAE: ENLARGED<br>SITE #8<br>PLACENTAE: DISCOLORATION, GREEN<br>SITES #1 THROUGH #8 |
| 10597 | NO SIGNIFICANT CHANGES OBSERVED |
| 10599 | NO SIGNIFICANT CHANGES OBSERVED |
| 10606 | NO SIGNIFICANT CHANGES OBSERVED |
| 10630 | THYMUS: AREA(S), DARK RED<br>FEW, IRREGULARLY SHAPED |
| 10643 | NO SIGNIFICANT CHANGES OBSERVED |
| 10658 | UTERUS: CONTENTS, DARK RED<br>SURROUNDS SITE #4 |
| 10669 | NO SIGNIFICANT CHANGES OBSERVED |
| 10672 | NO SIGNIFICANT CHANGES OBSERVED |
| 10674 | NO SIGNIFICANT CHANGES OBSERVED |
| 10676 | NO SIGNIFICANT CHANGES OBSERVED |
| 10678 | NO SIGNIFICANT CHANGES OBSERVED |
| 10681 | NO SIGNIFICANT CHANGES OBSERVED |
| 10685 | NO SIGNIFICANT CHANGES OBSERVED |
| 10687 | NO SIGNIFICANT CHANGES OBSERVED |
| 10692 | NO SIGNIFICANT CHANGES OBSERVED |
| 10694 | NO SIGNIFICANT CHANGES OBSERVED |
| 10708 | NO SIGNIFICANT CHANGES OBSERVED |

TABLE A9

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 5
SPONSOR:LYONDELLBASELL INDIVIDUAL MATERNAL MACROSCOPIC FINDINGS

| DAMS FROM GROUP 5: 1600 MG/KG/DAY | MATERNAL GROSS OBSERVATION |
|---|---|
| 10591 | NO SIGNIFICANT CHANGES OBSERVED |
| 10593 | NO SIGNIFICANT CHANGES OBSERVED |
| 10608 | NO SIGNIFICANT CHANGES OBSERVED |
| 10610 | NO SIGNIFICANT CHANGES OBSERVED |
| 10611 | PLACENTAE: FUSED<br>SITES #4 AND #5 |
| 10613 | NO SIGNIFICANT CHANGES OBSERVED |
| 10615 | NO SIGNIFICANT CHANGES OBSERVED |
| 10620 | THYMUS: SMALL |
| 10621 | UTERUS: CONTENTS, DARK RED<br>SURROUNDS SITES #2 AND #3 |
| 10627 | NO SIGNIFICANT CHANGES OBSERVED |
| 10628 | NO SIGNIFICANT CHANGES OBSERVED |
| 10639 | NO SIGNIFICANT CHANGES OBSERVED |
| 10640 | NO SIGNIFICANT CHANGES OBSERVED |
| 10642 | NO SIGNIFICANT CHANGES OBSERVED |
| 10646 | LIVER: AREA(S) WHITE<br>ONE, 3 MM IN DIAMETER, MEDIAN LOBE |
| 10659 | NO SIGNIFICANT CHANGES OBSERVED |
| 10663 | NO SIGNIFICANT CHANGES OBSERVED |
| 10668 | NO SIGNIFICANT CHANGES OBSERVED |
| 10686 | NO SIGNIFICANT CHANGES OBSERVED |
| 10689 | UTERUS: CONTENTS, DARK RED<br>SURROUNDS SITES #17 AND #18 |
| 10704 | NO SIGNIFICANT CHANGES OBSERVED |
| 10707 | URETERS: DISTENDED<br>SEVERE, LEFT<br>KIDNEYS: SMALL<br>LEFT<br>KIDNEYS: DILATED PELVIS<br>SEVERE, LEFT<br>DIED GESTATION DAY 8<br>UTERUS: LEFT- 3 NORMALLY DEVELOPING IMPLANTATIONS; RIGHT- 10 |

TABLE A9

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 6
SPONSOR:LYONDELLBASELL INDIVIDUAL MATERNAL MACROSCOPIC FINDINGS

| DAMS FROM GROUP 5: 1600 MG/KG/DAY | MATERNAL GROSS OBSERVATION |
|---|---|
| 10707 | NORMALLY DEVELOPING IMPLANTATIONS<br>OVARIES: CORPORA LUTEA- 4, LEFT; 10, RIGHT |

PMFGRDv4.16
05/12/2008

TABLE A10

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL INDIVIDUAL ORGAN WEIGHTS [G]

FEMALE GROUP: 0 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10598 | G | 1.93 | 18.44 | 2.13 | 0.3179 | 0.0742 |
| 10602 | G | 1.83 | 19.32 | 2.35 | 0.3668 | 0.0952 |
| 10604 | G | 1.98 | 17.66 | 2.29 | 0.2303 | 0.0947 |
| 10607 | G | 1.96 | 16.19 | 1.99 | 0.2511 | 0.0637 |
| 10609 | G | 1.85 | 15.65 | 2.29 | 0.2662 | 0.0610 |
| 10612 | G | 1.85 | 14.75 | 1.93 | 0.1195 | 0.0699 |
| 10624 | G | 1.89 | 16.43 | 2.40 | 0.2598 | 0.0964 |
| 10626 | G | 1.95 | 17.54 | 2.11 | 0.3039 | 0.0628 |
| 10629 | G | 1.93 | 14.58 | 1.92 | 0.2975 | 0.0715 |
| 10632 | G | 1.82 | 18.41 | 2.27 | 0.3845 | 0.0725 |
| 10633 | G | 1.94 | 16.38 | 1.93 | 0.3763 | 0.0740 |
| 10635 | G | 1.73 | 16.59 | 1.98 | 0.3349 | 0.0691 |
| 10647 | G | 1.90 | 17.20 | 2.12 | 0.1987 | 0.0659 |
| 10649 | G | 1.83 | 16.53 | 2.23 | 0.3989 | 0.0653 |
| 10650 | G | 2.01 | 19.05 | 2.47 | 0.4174 | 0.0887 |
| 10652 | G | 1.95 | 16.66 | 1.95 | 0.1729 | 0.0702 |
| 10667 | G | 1.90 | 17.57 | 2.26 | 0.2901 | 0.0698 |
| 10671 | G | 2.02 | 16.65 | 2.05 | 0.1692 | 0.0766 |
| 10675 | G | 1.75 | 19.50 | 2.27 | 0.4055 | 0.0758 |
| 10697 | G | 1.86 | 18.74 | 2.40 | 0.5083 | 0.0721 |
| 10706 | G | 1.94 | 18.45 | 2.42 | 0.2564 | 0.0802 |
| 10711 | G | 1.91 | 15.70 | 2.19 | 0.3465 | 0.0827 |
| MEAN | | 1.90 | 17.18 | 2.18 | 0.3033 | 0.0751 |
| S.D. | | 0.076 | 1.411 | 0.178 | 0.09439 | 0.01051 |
| S.E. | | 0.016 | 0.301 | 0.038 | 0.02012 | 0.00224 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

FEMALE GROUP: 400 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10589 | G | 1.92 | 18.03 | 2.24 | 0.1899 | 0.0782 |
| 10596 | G | 1.88 | 18.56 | 2.30 | 0.2114 | 0.0910 |
| 10600 | G | 2.00 | 15.13 | 2.15 | 0.3010 | 0.0748 |
| 10603 | G | 1.78 | 17.58 | 2.38 | 0.2836 | 0.0866 |
| 10618 | G | 1.95 | 15.63 | 2.18 | 0.1506 | 0.0607 |
| 10619 | G | 1.85 | 19.64 | 2.46 | 0.3527 | 0.0733 |
| 10623 | G | 1.94 | 20.39 | 2.37 | 0.4054 | 0.1046 |
| 10625 | G | 2.04 | 17.41 | 2.17 | 0.3928 | 0.0851 |
| 10636 | G | 1.96 | 18.42 | 2.25 | 0.3523 | 0.1092 |
| 10651 | G | 1.83 | 20.03 | 2.98 | 0.3366 | 0.0989 |
| 10655 | G | 1.82 | 14.81 | 1.90 | 0.2283 | 0.0870 |
| 10657 | G | 1.91 | 17.81 | 2.34 | 0.2635 | 0.0663 |
| 10661 | G | 1.96 | 15.70 | 2.14 | 0.2375 | 0.0730 |
| 10670 | G | 2.04 | 20.31 | 2.89 | 0.2527 | 0.0759 |
| 10688 | G | 1.91 | 14.42 | 2.09 | 0.2878 | 0.0795 |
| 10691 | G | 1.93 | 17.32 | 2.15 | 0.1981 | 0.0812 |
| 10696 | G | 1.89 | 19.10 | 2.41 | 0.2985 | 0.0964 |
| 10699 | G | 1.82 | 15.59 | 1.97 | 0.1968 | 0.0877 |
| 10703 | G | 2.03 | 16.68 | 2.01 | 0.2953 | 0.0780 |
| 10705 | G | 1.46 | 16.53 | 2.12 | 0.2680 | 0.0706 |
| 10709 | G | 1.82 | 18.14 | 2.15 | 0.1843 | 0.0735 |
| 10710 | G | 1.79 | 15.08 | 2.00 | 0.1971 | 0.0825 |
| MEAN | | 1.89 | 17.38 | 2.26 | 0.2675 | 0.0825 |
| S.D. | | 0.124 | 1.858 | 0.265 | 0.07060 | 0.01214 |
| S.E. | | 0.026 | 0.396 | 0.056 | 0.01505 | 0.00259 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

TABLE A10

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 3

SPONSOR:LYONDELLBASELL INDIVIDUAL ORGAN WEIGHTS [G]

FEMALE GROUP: 800 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10584 | G | 1.94 | 16.97 | 2.19 | 0.1942 | 0.0781 |
| 10586 | G | 1.87 | 17.47 | 2.30 | 0.2017 | 0.0800 |
| 10588 | G | 1.83 | 18.63 | 2.50 | 0.4025 | 0.0837 |
| 10592 | G | 1.87 | 15.81 | 2.10 | 0.3126 | 0.0736 |
| 10594 | G | 1.85 | 16.74 | 2.18 | 0.3609 | 0.0611 |
| 10601 | G | 1.97 | 17.11 | 2.12 | 0.2235 | 0.0772 |
| 10605 | G | 1.89 | 17.40 | 2.20 | 0.2883 | 0.0960 |
| 10616 | G | 1.87 | 17.65 | 2.06 | 0.2148 | 0.0801 |
| 10617 | G | 1.85 | 17.58 | 2.37 | 0.4128 | 0.0890 |
| 10631 | G | 1.84 | 17.98 | 2.44 | 0.4066 | 0.0634 |
| 10637 | G | 1.87 | 16.26 | 2.12 | 0.1634 | 0.0698 |
| 10641 | G | 1.96 | 17.01 | 2.28 | 0.2082 | 0.0744 |
| 10644 | G | 1.95 | 17.54 | 2.15 | 0.1723 | 0.0773 |
| 10648 | G | 1.91 | 22.15 | 2.85 | 0.3671 | 0.0927 |
| 10656 | G | 1.89 | 20.51 | 2.70 | 0.4790 | 0.0896 |
| 10664 | G | 1.89 | 20.25 | 2.77 | 0.2577 | 0.0817 |
| 10665 | G | 1.85 | 14.27 | 2.19 | 0.1996 | 0.0676 |
| 10666 | G | 1.92 | 16.53 | 2.25 | 0.2343 | 0.0620 |
| 10673 | G | 1.94 | 20.52 | 2.59 | 0.4148 | 0.0975 |
| 10679 | G | 1.87 | 15.45 | 2.30 | 0.1393 | 0.0825 |
| 10680 | G | 1.83 | 16.16 | 2.01 | 0.1960 | 0.0814 |
| 10700 | G | 1.86 | 15.75 | 1.69 | 0.2191 | 0.0896 |
| MEAN | | 1.89 | 17.53 | 2.29 | 0.2759 | 0.0795 |
| S.D. | | 0.043 | 1.889 | 0.269 | 0.10053 | 0.01050 |
| S.E. | | 0.009 | 0.403 | 0.057 | 0.02143 | 0.00224 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

TABLE A10
A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
INDIVIDUAL ORGAN WEIGHTS [G]



FEMALE GROUP: 1000 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10582 | G | 1.87 | 17.48 | 2.46 | 0.2667 | 0.0870 |
| 10583 | G | 1.93 | 20.12 | 2.65 | 0.3745 | 0.0773 |
| 10585 | G | 1.85 | 18.48 | 2.40 | 0.1989 | 0.0792 |
| 10590 | G | 1.74 | 15.90 | 2.24 | 0.2259 | 0.0788 |
| 10595 | G | 2.02 | 17.82 | 2.23 | 0.1585 | 0.0895 |
| 10597 | G | 2.04 | 17.80 | 2.45 | 0.3096 | 0.0733 |
| 10599 | G | 2.00 | 18.87 | 2.48 | 0.2835 | 0.0921 |
| 10606 | G | 1.82 | 18.22 | 2.35 | 0.4117 | 0.1048 |
| 10630 | G | 1.91 | 21.36 | 2.57 | 0.3274 | 0.0820 |
| 10643 | G | 1.89 | 18.26 | 2.40 | 0.1776 | 0.0823 |
| 10658 | G | 1.87 | 15.80 | 2.30 | 0.2555 | 0.0552 |
| 10669 | G | 1.85 | 16.01 | 2.13 | 0.2069 | 0.0812 |
| 10672 | G | 1.93 | 16.46 | 2.22 | 0.1951 | 0.0759 |
| 10674 | G | 1.87 | 15.30 | 1.97 | 0.2854 | 0.0717 |
| 10676 | G | 1.84 | 17.76 | 2.55 | 0.3348 | 0.0615 |
| 10678 | G | 1.79 | 16.06 | 2.07 | 0.1932 | 0.0703 |
| 10681 | G | 1.78 | 16.61 | 2.20 | 0.2962 | 0.0805 |
| 10685 | G | 1.84 | 18.58 | 2.31 | 0.2089 | 0.0953 |
| 10687 | G | 1.96 | 17.73 | 2.40 | 0.3612 | 0.1122 |
| 10692 | G | 1.86 | 18.43 | 2.31 | 0.3236 | 0.0847 |
| 10694 | G | 1.70 | 14.96 | 1.89 | 0.2039 | 0.0509 |
| 10708 | G | 1.88 | 18.17 | 2.37 | 0.1856 | 0.0945 |
| MEAN | | 1.87 | 17.55 | 2.32 | 0.2629 | 0.0809 |
| S.D. | | 0.085 | 1.564 | 0.190 | 0.07243 | 0.01453 |
| S.E. | | 0.018 | 0.333 | 0.040 | 0.01544 | 0.00310 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

FEMALE GROUP: 1600 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10591 | G | 1.72 | 17.68 | 2.33 | 0.2503 | 0.0825 |
| 10593 | G | 1.83 | 18.56 | 2.51 | 0.1804 | 0.0769 |
| 10608 | G | 1.94 | 20.57 | 2.38 | 0.1905 | 0.0993 |
| 10610 | G | 1.79 | 18.18 | 2.35 | 0.2142 | 0.0942 |
| 10611 | G | 1.81 | 17.87 | 2.36 | 0.2028 | 0.1065 |
| 10613 | G | 1.88 | 20.23 | 2.38 | 0.1815 | 0.1234 |
| 10615 | G | 1.81 | 20.12 | 2.47 | 0.2963 | 0.0881 |
| 10620 | G | 1.70 | 17.30 | 2.09 | 0.1064 | 0.1003 |
| 10621 | G | 1.82 | 17.61 | 2.07 | 0.1660 | 0.0913 |
| 10627 | G | 1.79 | 17.75 | 2.28 | 0.3355 | 0.0821 |
| 10628 | G | 2.02 | 15.04 | 2.36 | 0.0937 | 0.1017 |
| 10639 | G | 1.71 | 20.47 | 2.21 | 0.1252 | 0.0875 |
| 10640 | G | 1.82 | 21.69 | 2.57 | 0.3681 | 0.1049 |
| 10642 | G | 1.97 | 16.68 | 2.20 | 0.1600 | 0.0767 |
| 10646 | G | 1.88 | 17.21 | 2.32 | 0.1317 | 0.0724 |
| 10659 | G | 1.91 | 18.77 | 2.30 | 0.1856 | 0.0907 |
| 10663 | G | 2.03 | 20.27 | 2.60 | 0.1887 | 0.1016 |
| 10668 | G | 1.92 | 17.92 | 2.36 | 0.1955 | 0.0915 |
| 10686 | G | 1.93 | 18.09 | 2.44 | 0.1720 | 0.0881 |
| 10689 | G | 1.93 | 20.55 | 2.36 | 0.2479 | 0.1054 |
| 10704 | G | 1.89 | 17.21 | 2.13 | 0.2528 | 0.0959 |
| MEAN | | 1.86 | 18.56 | 2.34 | 0.2021 | 0.0934 |
| S.D. | | 0.094 | 1.649 | 0.142 | 0.07023 | 0.01208 |
| S.E. | | 0.021 | 0.360 | 0.031 | 0.01533 | 0.00264 |
| N | | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

TABLE A11

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL ORGAN WEIGHTS RELATIVE TO BRAIN WEIGHTS [G/100 G]

FEMALE GROUP: 0 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10598 | G | 1.930 | 955.441 | 110.363 | 16.472 | 3.845 |
| 10602 | G | 1.830 | 1055.738 | 128.415 | 20.044 | 5.202 |
| 10604 | G | 1.980 | 891.919 | 115.657 | 11.631 | 4.783 |
| 10607 | G | 1.960 | 826.020 | 101.531 | 12.811 | 3.250 |
| 10609 | G | 1.850 | 845.946 | 123.784 | 14.389 | 3.297 |
| 10612 | G | 1.850 | 797.297 | 104.324 | 6.459 | 3.778 |
| 10624 | G | 1.890 | 869.312 | 126.984 | 13.746 | 5.101 |
| 10626 | G | 1.950 | 899.487 | 108.205 | 15.585 | 3.221 |
| 10629 | G | 1.930 | 755.440 | 99.482 | 15.415 | 3.705 |
| 10632 | G | 1.820 | 1011.538 | 124.725 | 21.126 | 3.984 |
| 10633 | G | 1.940 | 844.330 | 99.485 | 19.397 | 3.814 |
| 10635 | G | 1.730 | 958.960 | 114.451 | 19.358 | 3.994 |
| 10647 | G | 1.900 | 905.263 | 111.579 | 10.458 | 3.468 |
| 10649 | G | 1.830 | 903.279 | 121.858 | 21.798 | 3.568 |
| 10650 | G | 2.010 | 947.761 | 122.886 | 20.766 | 4.413 |
| 10652 | G | 1.950 | 854.359 | 100.000 | 8.867 | 3.600 |
| 10667 | G | 1.900 | 924.737 | 118.947 | 15.268 | 3.674 |
| 10671 | G | 2.020 | 824.257 | 101.485 | 8.376 | 3.792 |
| 10675 | G | 1.750 | 1114.286 | 129.714 | 23.171 | 4.331 |
| 10697 | G | 1.860 | 1007.527 | 129.032 | 27.328 | 3.876 |
| 10706 | G | 1.940 | 951.031 | 124.742 | 13.216 | 4.134 |
| 10711 | G | 1.910 | 821.990 | 114.660 | 18.141 | 4.330 |
| MEAN | | 1.897 | 907.542 | 115.105 | 16.083 | 3.962 |
| S.D. | | 0.0758 | 88.0645 | 10.6748 | 5.2674 | 0.5477 |
| S.E. | | 0.0162 | 18.7754 | 2.2759 | 1.1230 | 0.1168 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

TABLE A11

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 2

SPONSOR:LYONDELLBASELL INDIVIDUAL ORGAN WEIGHTS RELATIVE TO BRAIN WEIGHTS [G/100 G]

FEMALE GROUP: 400 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10589 | G | 1.920 | 939.063 | 116.667 | 9.891 | 4.073 |
| 10596 | G | 1.880 | 987.234 | 122.340 | 11.245 | 4.840 |
| 10600 | G | 2.000 | 756.500 | 107.500 | 15.050 | 3.740 |
| 10603 | G | 1.780 | 987.640 | 133.708 | 15.933 | 4.865 |
| 10618 | G | 1.950 | 801.538 | 111.795 | 7.723 | 3.113 |
| 10619 | G | 1.850 | 1061.622 | 132.973 | 19.065 | 3.962 |
| 10623 | G | 1.940 | 1051.031 | 122.165 | 20.897 | 5.392 |
| 10625 | G | 2.040 | 853.431 | 106.373 | 19.255 | 4.172 |
| 10636 | G | 1.960 | 939.796 | 114.796 | 17.974 | 5.571 |
| 10651 | G | 1.830 | 1094.536 | 162.842 | 18.393 | 5.404 |
| 10655 | G | 1.820 | 813.736 | 104.396 | 12.544 | 4.780 |
| 10657 | G | 1.910 | 932.461 | 122.513 | 13.796 | 3.471 |
| 10661 | G | 1.960 | 801.020 | 109.184 | 12.117 | 3.724 |
| 10670 | G | 2.040 | 995.588 | 141.667 | 12.387 | 3.721 |
| 10688 | G | 1.910 | 754.974 | 109.424 | 15.068 | 4.162 |
| 10691 | G | 1.930 | 897.409 | 111.399 | 10.264 | 4.207 |
| 10696 | G | 1.890 | 1010.582 | 127.513 | 15.794 | 5.101 |
| 10699 | G | 1.820 | 856.593 | 108.242 | 10.813 | 4.819 |
| 10703 | G | 2.030 | 821.675 | 99.015 | 14.547 | 3.842 |
| 10705 | G | 1.460 | 1132.192 | 145.205 | 18.356 | 4.836 |
| 10709 | G | 1.820 | 996.703 | 118.132 | 10.126 | 4.038 |
| 10710 | G | 1.790 | 842.458 | 111.732 | 11.011 | 4.609 |
| MEAN | | 1.888 | 923.990 | 119.981 | 14.193 | 4.384 |
| S.D. | | 0.1240 | 111.3258 | 15.4512 | 3.6763 | 0.6752 |
| S.E. | | 0.0264 | 23.7347 | 3.2942 | 0.7838 | 0.1439 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

TABLE A11

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL ORGAN WEIGHTS RELATIVE TO BRAIN WEIGHTS [G/100 G]

FEMALE GROUP: 800 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10584 | G | 1.940 | 874.742 | 112.887 | 10.010 | 4.026 |
| 10586 | G | 1.870 | 934.225 | 122.995 | 10.786 | 4.278 |
| 10588 | G | 1.830 | 1018.033 | 136.612 | 21.995 | 4.574 |
| 10592 | G | 1.870 | 845.455 | 112.299 | 16.717 | 3.936 |
| 10594 | G | 1.850 | 904.865 | 117.838 | 19.508 | 3.303 |
| 10601 | G | 1.970 | 868.528 | 107.614 | 11.345 | 3.919 |
| 10605 | G | 1.890 | 920.635 | 116.402 | 15.254 | 5.079 |
| 10616 | G | 1.870 | 943.850 | 110.160 | 11.487 | 4.283 |
| 10617 | G | 1.850 | 950.270 | 128.108 | 22.314 | 4.811 |
| 10631 | G | 1.840 | 977.174 | 132.609 | 22.098 | 3.446 |
| 10637 | G | 1.870 | 869.519 | 113.369 | 8.738 | 3.733 |
| 10641 | G | 1.960 | 867.857 | 116.327 | 10.622 | 3.796 |
| 10644 | G | 1.950 | 899.487 | 110.256 | 8.836 | 3.964 |
| 10648 | G | 1.910 | 1159.686 | 149.215 | 19.220 | 4.853 |
| 10656 | G | 1.890 | 1085.185 | 142.857 | 25.344 | 4.741 |
| 10664 | G | 1.890 | 1071.429 | 146.561 | 13.635 | 4.323 |
| 10665 | G | 1.850 | 771.351 | 118.378 | 10.789 | 3.654 |
| 10666 | G | 1.920 | 860.938 | 117.188 | 12.203 | 3.229 |
| 10673 | G | 1.940 | 1057.732 | 133.505 | 21.381 | 5.026 |
| 10679 | G | 1.870 | 826.203 | 122.995 | 7.449 | 4.412 |
| 10680 | G | 1.830 | 883.060 | 109.836 | 10.710 | 4.448 |
| 10700 | G | 1.860 | 846.774 | 90.860 | 11.780 | 4.817 |
| MEAN | | 1.887 | 928.954 | 121.312 | 14.646 | 4.211 |
| S.D. | | 0.0428 | 96.7866 | 14.2055 | 5.4198 | 0.5533 |
| S.E. | | 0.0091 | 20.6350 | 3.0286 | 1.1555 | 0.1180 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

TABLE A11

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 4

SPONSOR:LYONDELLBASELL INDIVIDUAL ORGAN WEIGHTS RELATIVE TO BRAIN WEIGHTS [G/100 G]

FEMALE GROUP: 1000 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10582 | G | 1.870 | 934.759 | 131.551 | 14.262 | 4.652 |
| 10583 | G | 1.930 | 1042.487 | 137.306 | 19.404 | 4.005 |
| 10585 | G | 1.850 | 998.919 | 129.730 | 10.751 | 4.281 |
| 10590 | G | 1.740 | 913.793 | 128.736 | 12.983 | 4.529 |
| 10595 | G | 2.020 | 882.178 | 110.396 | 7.847 | 4.431 |
| 10597 | G | 2.040 | 872.549 | 120.098 | 15.176 | 3.593 |
| 10599 | G | 2.000 | 943.500 | 124.000 | 14.175 | 4.605 |
| 10606 | G | 1.820 | 1001.099 | 129.121 | 22.621 | 5.758 |
| 10630 | G | 1.910 | 1118.325 | 134.555 | 17.141 | 4.293 |
| 10643 | G | 1.890 | 966.138 | 126.984 | 9.397 | 4.354 |
| 10658 | G | 1.870 | 844.920 | 122.995 | 13.663 | 2.952 |
| 10669 | G | 1.850 | 865.405 | 115.135 | 11.184 | 4.389 |
| 10672 | G | 1.930 | 852.850 | 115.026 | 10.109 | 3.933 |
| 10674 | G | 1.870 | 818.182 | 105.348 | 15.262 | 3.834 |
| 10676 | G | 1.840 | 965.217 | 138.587 | 18.196 | 3.342 |
| 10678 | G | 1.790 | 897.207 | 115.642 | 10.793 | 3.927 |
| 10681 | G | 1.780 | 933.146 | 123.596 | 16.640 | 4.522 |
| 10685 | G | 1.840 | 1009.783 | 125.543 | 11.353 | 5.179 |
| 10687 | G | 1.960 | 904.592 | 122.449 | 18.429 | 5.724 |
| 10692 | G | 1.860 | 990.860 | 124.194 | 17.398 | 4.554 |
| 10694 | G | 1.700 | 880.000 | 111.176 | 11.994 | 2.994 |
| 10708 | G | 1.880 | 966.489 | 126.064 | 9.872 | 5.027 |
| MEAN | | 1.875 | 936.473 | 123.556 | 14.030 | 4.313 |
| S.D. | | 0.0847 | 72.7364 | 8.7183 | 3.8070 | 0.7362 |
| S.E. | | 0.0181 | 15.5074 | 1.8587 | 0.8117 | 0.1570 |
| N | | 22 | 22 | 22 | 22 | 22 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

TABLE A11

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 
SPONSOR:LYONDELLBASELL INDIVIDUAL ORGAN WEIGHTS RELATIVE TO BRAIN WEIGHTS [G/100 G]

FEMALE GROUP: 1600 MG/KG/DAY

| ANIMAL | PREGNANCY STATUS | BRAIN | LIVER | KIDNEYS | THYMUS | ADRENAL GLANDS |
|---|---|---|---|---|---|---|
| 10591 | G | 1.720 | 1027.907 | 135.465 | 14.552 | 4.797 |
| 10593 | G | 1.830 | 1014.208 | 137.158 | 9.858 | 4.202 |
| 10608 | G | 1.940 | 1060.309 | 122.680 | 9.820 | 5.119 |
| 10610 | G | 1.790 | 1015.643 | 131.285 | 11.966 | 5.263 |
| 10611 | G | 1.810 | 987.293 | 130.387 | 11.204 | 5.884 |
| 10613 | G | 1.880 | 1076.064 | 126.596 | 9.654 | 6.564 |
| 10615 | G | 1.810 | 1111.602 | 136.464 | 16.370 | 4.867 |
| 10620 | G | 1.700 | 1017.647 | 122.941 | 6.259 | 5.900 |
| 10621 | G | 1.820 | 967.582 | 113.736 | 9.121 | 5.016 |
| 10627 | G | 1.790 | 991.620 | 127.374 | 18.743 | 4.587 |
| 10628 | G | 2.020 | 744.555 | 116.832 | 4.639 | 5.035 |
| 10639 | G | 1.710 | 1197.076 | 129.240 | 7.322 | 5.117 |
| 10640 | G | 1.820 | 1191.758 | 141.209 | 20.225 | 5.764 |
| 10642 | G | 1.970 | 846.701 | 111.675 | 8.122 | 3.893 |
| 10646 | G | 1.880 | 915.426 | 123.404 | 7.005 | 3.851 |
| 10659 | G | 1.910 | 982.723 | 120.419 | 9.717 | 4.749 |
| 10663 | G | 2.030 | 998.522 | 128.079 | 9.296 | 5.005 |
| 10668 | G | 1.920 | 933.333 | 122.917 | 10.182 | 4.766 |
| 10686 | G | 1.930 | 937.306 | 126.425 | 8.912 | 4.565 |
| 10689 | G | 1.930 | 1064.767 | 122.280 | 12.845 | 5.461 |
| 10704 | G | 1.890 | 910.582 | 112.698 | 13.376 | 5.074 |
| MEAN | | 1.862 | 999.649 | 125.679 | 10.914 | 5.023 |
| S.D. | | 0.0941 | 104.1817 | 8.1098 | 3.9668 | 0.6575 |
| S.E. | | 0.0205 | 22.7343 | 1.7697 | 0.8656 | 0.1435 |
| N | | 21 | 21 | 21 | 21 | 21 |

G = GRAVID NG = NONGRAVID - WEIGHTS NOT INCLUDED IN THE CALCULATION OF THE MEAN

POFBWRv4.07
05/12/2008

TABLE A12

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY

DAMS FROM GROUP 1: 0 MG/KG/DAY

| | | | VIABLE FETUSES | | | DEAD FETUSES | | | EARLY RESORPTIONS | | | LATE RESORPTIONS | | | IMPLANTATION SITES | | | CORPORA LUTEA | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SEX | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | |
| DAM# | M | F | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | OVARY | OVARY | TOTAL |
| 10598 | 11 | 7 | 7 | 11 | 18 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 8 | 11 | 19 | 8 | 11 | 19 |
| 10602 | 10 | 7 | 9 | 8 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 8 | 17 | 10 | 8 | 18 |
| 10604 | 7 | 8 | 7 | 8 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 8 | 8 | 16 | 8 | 8 | 16 |
| 10607 | 4 | 9 | 5 | 8 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 13 | 5 | 8 | 13 |
| 10609 | 8 | 7 | 4 | 11 | 15 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 4 | 13 | 17 | 4 | 14 | 18 |
| 10612 | 5 | 8 | 7 | 6 | 13 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 8 | 7 | 15 | 8 | 8 | 16 |
| 10624 | 5 | 8 | 5 | 8 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 13 | 5 | 8 | 13 |
| 10626 | 8 | 6 | 5 | 9 | 14 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 7 | 9 | 16 | 9 | 11 | 20 |
| 10629 | 8 | 4 | 5 | 7 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 7 | 12 | 5 | 8 | 13 |
| 10632 | 10 | 6 | 10 | 6 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 6 | 16 | 12 | 9 | 21 |
| 10633 | 4 | 10 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 6 | 14 | 9 | 7 | 16 |
| 10635 | 6 | 8 | 10 | 4 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 10 | 5 | 15 | 11 | 5 | 16 |
| 10647 | 5 | 8 | 6 | 7 | 13 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 8 | 14 | 7 | 8 | 15 |
| 10649 | 6 | 7 | 6 | 7 | 13 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 7 | 9 | 16 | 8 | 9 | 17 |
| 10650 | 7 | 9 | 9 | 7 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 16 | 9 | 7 | 16 |
| 10652 | 10 | 4 | 7 | 7 | 14 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 7 | 9 | 16 | 8 | 9 | 17 |
| 10667 | 11 | 7 | 6 | 12 | 18 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 13 | 19 | 6 | 14 | 20 |
| 10671 | 7 | 5 | 6 | 6 | 12 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 8 | 7 | 15 | 8 | 9 | 17 |
| 10675 | 12 | 6 | 9 | 9 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 18 | 9 | 10 | 19 |
| 10697 | 5 | 4 | 2 | 7 | 9 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 3 | 9 | 12 | 4 | 12 | 16 |
| 10706 | 9 | 6 | 8 | 7 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 7 | 15 | 8 | 7 | 15 |
| 10711 | 11 | 4 | 8 | 7 | 15 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 9 | 8 | 17 | 9 | 8 | 17 |
| TOTAL | 169 | 148 | 149 | 168 | 317 | 0 | 0 | 0 | 10 | 13 | 23 | 0 | 1 | 1 | 159 | 182 | 341 | 170 | 198 | 368 |
| MEAN | 7.7 | 6.7 | 6.8 | 7.6 | 14.4 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 1.0 | 0.0 | 0.0 | 0.0 | 7.2 | 8.3 | 15.5 | 7.7 | 9.0 | 16.7 |
| S.D. | 2.51 | 1.75 | 2.02 | 1.87 | 2.22 | 0.00 | 0.00 | 0.00 | 0.67 | 0.80 | 1.09 | 0.00 | 0.21 | 0.21 | 1.93 | 2.00 | 1.97 | 2.14 | 2.23 | 2.23 |
| S.E. | 0.54 | 0.37 | 0.43 | 0.40 | 0.47 | 0.00 | 0.00 | 0.00 | 0.14 | 0.17 | 0.23 | 0.00 | 0.05 | 0.05 | 0.41 | 0.43 | 0.42 | 0.46 | 0.47 | 0.48 |
| N = | 22 | | | | | | | | | | | | | | | | | | | |

TABLE A12

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 2

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY

DAMS FROM GROUP 2: 400 MG/KG/DAY

| | | | VIABLE FETUSES | | | DEAD FETUSES | | | EARLY RESORPTIONS | | | LATE RESORPTIONS | | | IMPLANTATION SITES | | | CORPORA LUTEA | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SEX | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | |
| DAM# | M | F | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | OVARY | | TOTAL |
| 10589 | 8 | 8 | 6 | 10 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 10 | 16 | 7 | 10 | 17 |
| 10596 | 10 | 8 | 8 | 10 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 10 | 18 | 8 | 10 | 18 |
| 10600 | 9 | 8 | 8 | 9 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 9 | 17 | 8 | 9 | 17 |
| 10603 | 5 | 9 | 6 | 8 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 14 | 12 | 8 | 20 |
| 10618 | 8 | 7 | 7 | 8 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | 15 | 8 | 12 | 20 |
| 10619 | 9 | 8 | 10 | 7 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 7 | 17 | 12 | 7 | 19 |
| 10623 | 11 | 8 | 8 | 11 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 11 | 19 | 8 | 11 | 19 |
| 10625 | 3 | 10 | 9 | 4 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 4 | 13 | 9 | 6 | 15 |
| 10636 | 8 | 10 | 7 | 11 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 11 | 18 | 7 | 11 | 18 |
| 10651 | 11 | 5 | 9 | 7 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 16 | 9 | 8 | 17 |
| 10655 | 4 | 8 | 7 | 5 | 12 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 8 | 5 | 13 | 8 | 6 | 14 |
| 10657 | 4 | 11 | 7 | 8 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | 15 | 7 | 8 | 15 |
| 10661 | 6 | 10 | 6 | 10 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 10 | 16 | 7 | 10 | 17 |
| 10670 | 6 | 13 | 12 | 7 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 7 | 19 | 13 | 8 | 21 |
| 10688 | 8 | 8 | 8 | 8 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 16 | 8 | 8 | 16 |
| 10691 | 8 | 9 | 8 | 9 | 17 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 10 | 18 | 8 | 10 | 18 |
| 10696 | 5 | 6 | 6 | 5 | 11 | 0 | 0 | 0 | 2 | 5 | 7 | 0 | 0 | 0 | 8 | 10 | 18 | 9 | 10 | 19 |
| 10699 | 6 | 8 | 6 | 8 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 9 | 15 | 6 | 9 | 15 |
| 10703 | 10 | 4 | 7 | 7 | 14 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 8 | 7 | 15 | 8 | 7 | 15 |
| 10705 | 7 | 6 | 2 | 11 | 13 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 12 | 14 | 3 | 12 | 15 |
| 10709 | 10 | 6 | 8 | 8 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 16 | 9 | 9 | 18 |
| 10710 | 7 | 7 | 6 | 8 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 14 | 7 | 8 | 15 |
| TOTAL | 163 | 177 | 161 | 179 | 340 | 0 | 0 | 0 | 4 | 8 | 12 | 0 | 0 | 0 | 165 | 187 | 352 | 181 | 197 | 378 |
| MEAN | 7.4 | 8.0 | 7.3 | 8.1 | 15.5 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 | 7.5 | 8.5 | 16.0 | 8.2 | 9.0 | 17.2 |
| S.D. | 2.32 | 2.03 | 1.91 | 1.93 | 2.18 | 0.00 | 0.00 | 0.00 | 0.50 | 1.09 | 1.50 | 0.00 | 0.00 | 0.00 | 1.90 | 1.95 | 1.83 | 2.11 | 1.73 | 1.99 |
| S.E. | 0.50 | 0.43 | 0.41 | 0.41 | 0.46 | 0.00 | 0.00 | 0.00 | 0.11 | 0.23 | 0.32 | 0.00 | 0.00 | 0.00 | 0.40 | 0.41 | 0.39 | 0.45 | 0.37 | 0.42 |
| N = | 22 | | | | | | | | | | | | | | | | | | | |

TABLE A12

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 3

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY

DAMS FROM GROUP 3: 800 MG/KG/DAY

| | | | VIABLE FETUSES | | | DEAD FETUSES | | | EARLY RESORPTIONS | | | LATE RESORPTIONS | | | IMPLANTATION SITES | | | CORPORA LUTEA | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SEX | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | |
| DAM# | M | F | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | OVARY | OVARY | TOTAL |
| 10584 | 12 | 6 | 9 | 9 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 18 | 10 | 9 | 19 |
| 10586 | 5 | 9 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 6 | 14 | 8 | 6 | 14 |
| 10588 | 9 | 6 | 8 | 7 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 7 | 15 | 9 | 7 | 16 |
| 10592 | 9 | 7 | 7 | 9 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 16 | 8 | 9 | 17 |
| 10594 | 7 | 5 | 8 | 4 | 12 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 5 | 13 | 9 | 5 | 14 |
| 10601 | 6 | 10 | 10 | 6 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 6 | 16 | 11 | 6 | 17 |
| 10605 | 4 | 6 | 7 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 10 | 7 | 5 | 12 |
| 10616 | 8 | 10 | 8 | 10 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 10 | 18 | 8 | 10 | 18 |
| 10617 | 8 | 5 | 6 | 7 | 13 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 8 | 14 | 6 | 9 | 15 |
| 10631 | 8 | 8 | 8 | 8 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 16 | 8 | 8 | 16 |
| 10637 | 8 | 6 | 7 | 7 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 14 | 7 | 7 | 14 |
| 10641 | 6 | 9 | 9 | 6 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 7 | 16 | 10 | 7 | 17 |
| 10644 | 6 | 8 | 6 | 8 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 9 | 15 | 8 | 9 | 17 |
| 10648 | 9 | 7 | 6 | 10 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 10 | 16 | 7 | 11 | 18 |
| 10656 | 14 | 3 | 9 | 8 | 17 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 9 | 18 | 10 | 9 | 19 |
| 10664 | 9 | 9 | 9 | 9 | 18 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 10 | 19 | 11 | 10 | 21 |
| 10665 | 5 | 9 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 7 | 15 | 8 | 7 | 15 |
| 10666 | 13 | 4 | 7 | 10 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 10 | 17 | 7 | 10 | 17 |
| 10673 | 4 | 10 | 6 | 8 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 9 | 15 | 6 | 10 | 16 |
| 10679 | 7 | 9 | 11 | 5 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 5 | 16 | 11 | 5 | 16 |
| 10680 | 7 | 10 | 10 | 7 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 7 | 17 | 10 | 8 | 18 |
| 10700 | 9 | 5 | 5 | 9 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | 10 | 15 | 5 | 11 | 16 |
| TOTAL | 173 | 161 | 172 | 162 | 334 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0 | 172 | 171 | 343 | 184 | 178 | 362 |
| MEAN | 7.9 | 7.3 | 7.8 | 7.4 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 7.8 | 7.8 | 15.6 | 8.4 | 8.1 | 16.5 |
| S.D. | 2.64 | 2.15 | 1.53 | 1.92 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.50 | 0.00 | 0.00 | 0.00 | 1.53 | 1.95 | 1.97 | 1.73 | 1.93 | 2.02 |
| S.E. | 0.56 | 0.46 | 0.33 | 0.41 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.00 | 0.00 | 0.33 | 0.42 | 0.42 | 0.37 | 0.41 | 0.43 |
| N = | 22 | | | | | | | | | | | | | | | | | | | |

TABLE A12

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 4

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY

DAMS FROM GROUP 4: 1000 MG/KG/DAY

| | | | VIABLE FETUSES | | | DEAD FETUSES | | | EARLY RESORPTIONS | | | LATE RESORPTIONS | | | IMPLANTATION SITES | | | CORPORA LUTEA | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SEX | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | | LEFT | RIGHT | |
| DAM# | M | F | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | HORN | HORN | TOTAL | OVARY | | TOTAL |
| 10582 | 7 | 8 | 4 | 11 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 4 | 12 | 16 | 8 | 15 | 23 |
| 10583 | 8 | 9 | 7 | 10 | 17 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 11 | 18 | 7 | 12 | 19 |
| 10585 | 9 | 9 | 8 | 10 | 18 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 9 | 10 | 19 | 9 | 10 | 19 |
| 10590 | 4 | 12 | 6 | 10 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 10 | 16 | 6 | 11 | 17 |
| 10595 | 9 | 7 | 8 | 8 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 16 | 8 | 8 | 16 |
| 10597 | 7 | 7 | 4 | 10 | 14 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 6 | 11 | 17 | 6 | 11 | 17 |
| 10599 | 10 | 8 | 8 | 10 | 18 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 11 | 19 | 9 | 11 | 20 |
| 10606 | 6 | 8 | 7 | 7 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 8 | 15 | 8 | 10 | 18 |
| 10630 | 9 | 7 | 4 | 12 | 16 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 5 | 13 | 18 | 6 | 14 | 20 |
| 10643 | 8 | 7 | 9 | 6 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 10 | 6 | 16 | 11 | 7 | 18 |
| 10658 | 6 | 8 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 6 | 14 | 9 | 7 | 16 |
| 10669 | 10 | 5 | 5 | 10 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | 11 | 16 | 5 | 11 | 16 |
| 10672 | 8 | 6 | 9 | 5 | 14 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 9 | 7 | 16 | 9 | 8 | 17 |
| 10674 | 6 | 8 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 6 | 14 | 8 | 6 | 14 |
| 10676 | 11 | 6 | 9 | 8 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 8 | 17 | 11 | 8 | 19 |
| 10678 | 7 | 6 | 7 | 6 | 13 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 7 | 14 | 8 | 9 | 17 |
| 10681 | 9 | 3 | 6 | 6 | 12 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 8 | 7 | 15 | 8 | 9 | 17 |
| 10685 | 8 | 10 | 10 | 8 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 8 | 18 | 10 | 8 | 18 |
| 10687 | 10 | 5 | 6 | 9 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 10 | 16 | 7 | 10 | 17 |
| 10692 | 10 | 4 | 6 | 8 | 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 9 | 15 | 7 | 9 | 16 |
| 10694 | 8 | 7 | 6 | 9 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 9 | 15 | 11 | 12 | 23 |
| 10708 | 9 | 9 | 8 | 10 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 10 | 18 | 8 | 11 | 19 |
| TOTAL | 179 | 159 | 153 | 185 | 338 | 0 | 0 | 0 | 7 | 13 | 20 | 0 | 0 | 0 | 160 | 198 | 358 | 179 | 217 | 396 |
| MEAN | 8.1 | 7.2 | 7.0 | 8.4 | 15.4 | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.9 | 0.0 | 0.0 | 0.0 | 7.3 | 9.0 | 16.3 | 8.1 | 9.9 | 18.0 |
| S.D. | 1.70 | 2.02 | 1.73 | 1.97 | 1.73 | 0.00 | 0.00 | 0.00 | 0.65 | 0.59 | 0.92 | 0.00 | 0.00 | 0.00 | 1.64 | 2.05 | 1.55 | 1.67 | 2.25 | 2.18 |
| S.E. | 0.36 | 0.43 | 0.37 | 0.42 | 0.37 | 0.00 | 0.00 | 0.00 | 0.14 | 0.13 | 0.20 | 0.00 | 0.00 | 0.00 | 0.35 | 0.44 | 0.33 | 0.36 | 0.48 | 0.47 |
| N = | 22 | | | | | | | | | | | | | | | | | | | |

TABLE A12

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 5

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY

DAMS FROM GROUP 5: 1600 MG/KG/DAY

| | | | VIABLE FETUSES | | | DEAD FETUSES | | | EARLY RESORPTIONS | | | LATE RESORPTIONS | | | IMPLANTATION SITES | | | CORPORA LUTEA | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAM# | SEX M | SEX F | LEFT HORN | RIGHT HORN | TOTAL | LEFT HORN | RIGHT HORN | TOTAL | LEFT HORN | RIGHT HORN | TOTAL | LEFT HORN | RIGHT HORN | TOTAL | LEFT HORN | RIGHT HORN | TOTAL | LEFT OVARY | RIGHT OVARY | TOTAL |
| 10591 | 9 | 7 | 8 | 8 | 16 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 9 | 17 | 8 | 9 | 17 |
| 10593 | 7 | 8 | 4 | 11 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 5 | 11 | 16 | 7 | 11 | 18 |
| 10608 | 9 | 11 | 9 | 11 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 11 | 20 | 9 | 12 | 21 |
| 10610 | 11 | 6 | 10 | 7 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 7 | 17 | 10 | 7 | 17 |
| 10611 | 2 | 12 | 6 | 8 | 14 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 7 | 8 | 15 | 7 | 8 | 15 |
| 10613 | 11 | 7 | 8 | 10 | 18 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 11 | 19 | 9 | 11 | 20 |
| 10615 | 12 | 8 | 6 | 14 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 14 | 20 | 6 | 14 | 20 |
| 10620 | 4 | 11 | 8 | 7 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 8 | 16 | 8 | 8 | 16 |
| 10621 | 9 | 8 | 7 | 10 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 10 | 17 | 7 | 11 | 18 |
| 10627 | 8 | 6 | 7 | 7 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 14 | 8 | 7 | 15 |
| 10628 | 8 | 7 | 5 | 10 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 10 | 15 | 5 | 12 | 17 |
| 10639 | 5 | 7 | 4 | 8 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 9 | 13 | 6 | 10 | 16 |
| 10640 | 10 | 6 | 9 | 7 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 16 | 15 | 13 | 28 |
| 10642 | 7 | 7 | 6 | 8 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 14 | 7 | 8 | 15 |
| 10646 | 7 | 7 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 8 | 7 | 15 | 8 | 7 | 15 |
| 10659 | 7 | 9 | 7 | 9 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 16 | 8 | 9 | 17 |
| 10663 | 9 | 9 | 7 | 11 | 18 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 8 | 11 | 19 | 11 | 11 | 22 |
| 10668 | 6 | 9 | 7 | 8 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | 15 | 8 | 8 | 16 |
| 10686 | 6 | 9 | 7 | 8 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 9 | 16 | 7 | 9 | 16 |
| 10689 | 8 | 9 | 6 | 11 | 17 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 7 | 11 | 18 | 7 | 11 | 18 |
| 10704 | 6 | 9 | 6 | 9 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 7 | 9 | 16 | 7 | 9 | 16 |
| 10707 | GRAVID, DIED DAY 8 | | | | | | | | | | | | | | | | | | | |
| TOTAL | 161 | 172 | 145 | 188 | 333 | 0 | 0 | 0 | 5 | 4 | 9 | 0 | 2 | 2 | 150 | 194 | 344 | 168 | 205 | 373 |
| MEAN | 7.7 | 8.2 | 6.9 | 9.0 | 15.9 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.4 | 0.0 | 0.1 | 0.1 | 7.1 | 9.2 | 16.4 | 8.0 | 9.8 | 17.8 |
| S.D. | 2.42 | 1.69 | 1.55 | 1.94 | 2.01 | 0.00 | 0.00 | 0.00 | 0.44 | 0.40 | 0.51 | 0.00 | 0.30 | 0.30 | 1.42 | 1.81 | 1.94 | 2.10 | 2.05 | 3.10 |
| S.E. | 0.53 | 0.37 | 0.34 | 0.42 | 0.44 | 0.00 | 0.00 | 0.00 | 0.10 | 0.09 | 0.11 | 0.00 | 0.07 | 0.07 | 0.31 | 0.40 | 0.42 | 0.46 | 0.45 | 0.68 |
| N = | 21 | | | | | | | | | | | | | | | | | | | |

PLRDv4.08
05/23/2008

TABLE A13

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 1

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY [% PER LITTER]

DAMS FROM GROUP 1: 0 MG/KG/DAY

| DAM # | CORPORA LUTEA | IMPLANTATION SITES | FETUSES VIABLE | FETUSES DEAD | RESORPTIONS EARLY | RESORPTIONS LATE | RESORPTIONS TOTAL | PRE-IMPLANTATION LOSS | POST-IMPLANTATION LOSS | MALES | FEMALES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | # | % | % | % | % | % | % | % | % | % |
| 10598 | 19.0 | 19.0 | 94.7 | 0.0 | 5.3 | 0.0 | 5.3 | 0.0 | 5.3 | 61.1 | 38.9 |
| 10602 | 18.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 0.0 | 58.8 | 41.2 |
| 10604 | 16.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 0.0 | 6.3 | 46.7 | 53.3 |
| 10607 | 13.0 | 13.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.8 | 69.2 |
| 10609 | 18.0 | 17.0 | 88.2 | 0.0 | 11.8 | 0.0 | 11.8 | 5.6 | 11.8 | 53.3 | 46.7 |
| 10612 | 16.0 | 15.0 | 86.7 | 0.0 | 6.7 | 6.7 | 13.3 | 6.3 | 13.3 | 38.5 | 61.5 |
| 10624 | 13.0 | 13.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.5 | 61.5 |
| 10626 | 20.0 | 16.0 | 87.5 | 0.0 | 12.5 | 0.0 | 12.5 | 20.0 | 12.5 | 57.1 | 42.9 |
| 10629 | 13.0 | 12.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 66.7 | 33.3 |
| 10632 | 21.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.8 | 0.0 | 62.5 | 37.5 |
| 10633 | 16.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 0.0 | 28.6 | 71.4 |
| 10635 | 16.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 6.3 | 6.7 | 42.9 | 57.1 |
| 10647 | 15.0 | 14.0 | 92.9 | 0.0 | 7.1 | 0.0 | 7.1 | 6.7 | 7.1 | 38.5 | 61.5 |
| 10649 | 17.0 | 16.0 | 81.3 | 0.0 | 18.8 | 0.0 | 18.8 | 5.9 | 18.8 | 46.2 | 53.8 |
| 10650 | 16.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.8 | 56.3 |
| 10652 | 17.0 | 16.0 | 87.5 | 0.0 | 12.5 | 0.0 | 12.5 | 5.9 | 12.5 | 71.4 | 28.6 |
| 10667 | 20.0 | 19.0 | 94.7 | 0.0 | 5.3 | 0.0 | 5.3 | 5.0 | 5.3 | 61.1 | 38.9 |
| 10671 | 17.0 | 15.0 | 80.0 | 0.0 | 20.0 | 0.0 | 20.0 | 11.8 | 20.0 | 58.3 | 41.7 |
| 10675 | 19.0 | 18.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 0.0 | 66.7 | 33.3 |
| 10697 | 16.0 | 12.0 | 75.0 | 0.0 | 25.0 | 0.0 | 25.0 | 25.0 | 25.0 | 55.6 | 44.4 |
| 10706 | 15.0 | 15.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 |
| 10711 | 17.0 | 17.0 | 88.2 | 0.0 | 11.8 | 0.0 | 11.8 | 0.0 | 11.8 | 73.3 | 26.7 |
| MEAN | 16.7 | 15.5 | 92.9 | 0.0 | 6.8 | 0.3 | 7.1 | 7.0 | 7.1 | 52.7 | 47.3 |
| S.D. | 2.23 | 1.97 | 7.63 | 0.00 | 7.51 | 1.43 | 7.64 | 7.52 | 7.64 | 12.88 | 12.88 |
| S.E. | 0.48 | 0.42 | 1.63 | 0.00 | 1.60 | 0.30 | 1.63 | 1.60 | 1.63 | 2.75 | 2.75 |
| N | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

TABLE A13

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 2

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY [% PER LITTER]

DAMS FROM GROUP 2: 400 MG/KG/DAY

| DAM # | CORPORA LUTEA | IMPLANTATION SITES | FETUSES VIABLE | FETUSES DEAD | RESORPTIONS EARLY | RESORPTIONS LATE | RESORPTIONS TOTAL | PRE-IMPLANTATION LOSS | POST-IMPLANTATION LOSS | MALES | FEMALES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | # | % | % | % | % | % | % | % | % | % |
| 10589 | 17.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 50.0 | 50.0 |
| 10596 | 18.0 | 18.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.6 | 44.4 |
| 10600 | 17.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.9 | 47.1 |
| 10603 | 20.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.0 | 0.0 | 35.7 | 64.3 |
| 10618 | 20.0 | 15.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 | 0.0 | 53.3 | 46.7 |
| 10619 | 19.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 | 0.0 | 52.9 | 47.1 |
| 10623 | 19.0 | 19.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.9 | 42.1 |
| 10625 | 15.0 | 13.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 0.0 | 23.1 | 76.9 |
| 10636 | 18.0 | 18.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.4 | 55.6 |
| 10651 | 17.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 68.8 | 31.3 |
| 10655 | 14.0 | 13.0 | 92.3 | 0.0 | 7.7 | 0.0 | 7.7 | 7.1 | 7.7 | 33.3 | 66.7 |
| 10657 | 15.0 | 15.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.7 | 73.3 |
| 10661 | 17.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 37.5 | 62.5 |
| 10670 | 21.0 | 19.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.5 | 0.0 | 31.6 | 68.4 |
| 10688 | 16.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.0 | 50.0 |
| 10691 | 18.0 | 18.0 | 94.4 | 0.0 | 5.6 | 0.0 | 5.6 | 0.0 | 5.6 | 47.1 | 52.9 |
| 10696 | 19.0 | 18.0 | 61.1 | 0.0 | 38.9 | 0.0 | 38.9 | 5.3 | 38.9 | 45.5 | 54.5 |
| 10699 | 15.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 0.0 | 6.7 | 42.9 | 57.1 |
| 10703 | 15.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 0.0 | 6.7 | 71.4 | 28.6 |
| 10705 | 15.0 | 14.0 | 92.9 | 0.0 | 7.1 | 0.0 | 7.1 | 6.7 | 7.1 | 53.8 | 46.2 |
| 10709 | 18.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 | 0.0 | 62.5 | 37.5 |
| 10710 | 15.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 0.0 | 50.0 | 50.0 |
| MEAN | 17.2 | 16.0 | 96.7 | 0.0 | 3.3 | 0.0 | 3.3 | 6.5 | 3.3 | 47.6 | 52.4 |
| S.D. | 1.99 | 1.83 | 8.46 | 0.00 | 8.46 | 0.00 | 8.46 | 8.08 | 8.46 | 12.60 | 12.60 |
| S.E. | 0.42 | 0.39 | 1.80 | 0.00 | 1.80 | 0.00 | 1.80 | 1.72 | 1.80 | 2.69 | 2.69 |
| N | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

TABLE A13

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 3

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL DATA AT SCHEDULED NECROPSY [% PER LITTER]

DAMS FROM GROUP 3: 800 MG/KG/DAY

| DAM # | CORPORA LUTEA | IMPLANTATION SITES | FETUSES VIABLE | FETUSES DEAD | RESORPTIONS EARLY | RESORPTIONS LATE | RESORPTIONS TOTAL | PRE-IMPLANTATION LOSS | POST-IMPLANTATION LOSS | MALES | FEMALES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | # | % | % | % | % | % | % | % | % | % |
| 10584 | 19.0 | 18.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 0.0 | 66.7 | 33.3 |
| 10586 | 14.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.7 | 64.3 |
| 10588 | 16.0 | 15.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 60.0 | 40.0 |
| 10592 | 17.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 56.3 | 43.8 |
| 10594 | 14.0 | 13.0 | 92.3 | 0.0 | 7.7 | 0.0 | 7.7 | 7.1 | 7.7 | 58.3 | 41.7 |
| 10601 | 17.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 37.5 | 62.5 |
| 10605 | 12.0 | 10.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 0.0 | 40.0 | 60.0 |
| 10616 | 18.0 | 18.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.4 | 55.6 |
| 10617 | 15.0 | 14.0 | 92.9 | 0.0 | 7.1 | 0.0 | 7.1 | 6.7 | 7.1 | 61.5 | 38.5 |
| 10631 | 16.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.0 | 50.0 |
| 10637 | 14.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.1 | 42.9 |
| 10641 | 17.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 5.9 | 6.3 | 40.0 | 60.0 |
| 10644 | 17.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 11.8 | 6.7 | 42.9 | 57.1 |
| 10648 | 18.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 | 0.0 | 56.3 | 43.8 |
| 10656 | 19.0 | 18.0 | 94.4 | 0.0 | 5.6 | 0.0 | 5.6 | 5.3 | 5.6 | 82.4 | 17.6 |
| 10664 | 21.0 | 19.0 | 94.7 | 0.0 | 5.3 | 0.0 | 5.3 | 9.5 | 5.3 | 50.0 | 50.0 |
| 10665 | 15.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 0.0 | 6.7 | 35.7 | 64.3 |
| 10666 | 17.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 76.5 | 23.5 |
| 10673 | 16.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 6.3 | 6.7 | 28.6 | 71.4 |
| 10679 | 16.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.8 | 56.3 |
| 10680 | 18.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 0.0 | 41.2 | 58.8 |
| 10700 | 16.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 6.3 | 6.7 | 64.3 | 35.7 |
| MEAN | 16.5 | 15.6 | 97.3 | 0.0 | 2.7 | 0.0 | 2.7 | 5.3 | 2.7 | 51.3 | 48.7 |
| S.D. | 2.02 | 1.97 | 3.31 | 0.00 | 3.32 | 0.00 | 3.32 | 4.52 | 3.32 | 13.88 | 13.88 |
| S.E. | 0.43 | 0.42 | 0.71 | 0.00 | 0.71 | 0.00 | 0.71 | 0.96 | 0.71 | 2.96 | 2.96 |
| N | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

DAMS FROM GROUP 4: 1000 MG/KG/DAY

| DAM # | CORPORA LUTEA | IMPLANTATION SITES | FETUSES VIABLE | FETUSES DEAD | RESORPTIONS EARLY | RESORPTIONS LATE | RESORPTIONS TOTAL | PRE-IMPLANTATION LOSS | POST-IMPLANTATION LOSS | MALES | FEMALES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | # | % | % | % | % | % | % | % | % | % |
| 10582 | 23.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 30.4 | 6.3 | 46.7 | 53.3 |
| 10583 | 19.0 | 18.0 | 94.4 | 0.0 | 5.6 | 0.0 | 5.6 | 5.3 | 5.6 | 47.1 | 52.9 |
| 10585 | 19.0 | 19.0 | 94.7 | 0.0 | 5.3 | 0.0 | 5.3 | 0.0 | 5.3 | 50.0 | 50.0 |
| 10590 | 17.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 25.0 | 75.0 |
| 10595 | 16.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56.3 | 43.8 |
| 10597 | 17.0 | 17.0 | 82.4 | 0.0 | 17.6 | 0.0 | 17.6 | 0.0 | 17.6 | 50.0 | 50.0 |
| 10599 | 20.0 | 19.0 | 94.7 | 0.0 | 5.3 | 0.0 | 5.3 | 5.0 | 5.3 | 55.6 | 44.4 |
| 10606 | 18.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 16.7 | 6.7 | 42.9 | 57.1 |
| 10630 | 20.0 | 18.0 | 88.9 | 0.0 | 11.1 | 0.0 | 11.1 | 10.0 | 11.1 | 56.3 | 43.8 |
| 10643 | 18.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 11.1 | 6.3 | 53.3 | 46.7 |
| 10658 | 16.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 0.0 | 42.9 | 57.1 |
| 10669 | 16.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 0.0 | 6.3 | 66.7 | 33.3 |
| 10672 | 17.0 | 16.0 | 87.5 | 0.0 | 12.5 | 0.0 | 12.5 | 5.9 | 12.5 | 57.1 | 42.9 |
| 10674 | 14.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.9 | 57.1 |
| 10676 | 19.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 | 0.0 | 64.7 | 35.3 |
| 10678 | 17.0 | 14.0 | 92.9 | 0.0 | 7.1 | 0.0 | 7.1 | 17.6 | 7.1 | 53.8 | 46.2 |
| 10681 | 17.0 | 15.0 | 80.0 | 0.0 | 20.0 | 0.0 | 20.0 | 11.8 | 20.0 | 75.0 | 25.0 |
| 10685 | 18.0 | 18.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.4 | 55.6 |
| 10687 | 17.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 5.9 | 6.3 | 66.7 | 33.3 |
| 10692 | 16.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 6.3 | 6.7 | 71.4 | 28.6 |
| 10694 | 23.0 | 15.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.8 | 0.0 | 53.3 | 46.7 |
| 10708 | 19.0 | 18.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 0.0 | 50.0 | 50.0 |
| MEAN | 18.0 | 16.3 | 94.4 | 0.0 | 5.6 | 0.0 | 5.6 | 8.9 | 5.6 | 53.3 | 46.7 |
| S.D. | 2.18 | 1.55 | 5.72 | 0.00 | 5.72 | 0.00 | 5.72 | 9.39 | 5.72 | 11.23 | 11.23 |
| S.E. | 0.47 | 0.33 | 1.22 | 0.00 | 1.22 | 0.00 | 1.22 | 2.00 | 1.22 | 2.39 | 2.39 |
| N | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

DAMS FROM GROUP 5: 1600 MG/KG/DAY

| DAM # | CORPORA LUTEA | IMPLANTATION SITES | FETUSES VIABLE | FETUSES DEAD | RESORPTIONS EARLY | RESORPTIONS LATE | RESORPTIONS TOTAL | PRE-IMPLANTATION LOSS | POST-IMPLANTATION LOSS | MALES | FEMALES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | # | % | % | % | % | % | % | % | % | % |
| 10591 | 17.0 | 17.0 | 94.1 | 0.0 | 5.9 | 0.0 | 5.9 | 0.0 | 5.9 | 56.3 | 43.8 |
| 10593 | 18.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 11.1 | 6.3 | 46.7 | 53.3 |
| 10608 | 21.0 | 20.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | 45.0 | 55.0 |
| 10610 | 17.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 64.7 | 35.3 |
| 10611 | 15.0 | 15.0 | 93.3 | 0.0 | 6.7 | 0.0 | 6.7 | 0.0 | 6.7 | 14.3 | 85.7 |
| 10613 | 20.0 | 19.0 | 94.7 | 0.0 | 5.3 | 0.0 | 5.3 | 5.0 | 5.3 | 61.1 | 38.9 |
| 10615 | 20.0 | 20.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 |
| 10620 | 16.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 0.0 | 6.3 | 26.7 | 73.3 |
| 10621 | 18.0 | 17.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 0.0 | 52.9 | 47.1 |
| 10627 | 15.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 0.0 | 57.1 | 42.9 |
| 10628 | 17.0 | 15.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.8 | 0.0 | 53.3 | 46.7 |
| 10639 | 16.0 | 13.0 | 92.3 | 0.0 | 0.0 | 7.7 | 7.7 | 18.8 | 7.7 | 41.7 | 58.3 |
| 10640 | 28.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.9 | 0.0 | 62.5 | 37.5 |
| 10642 | 15.0 | 14.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 0.0 | 50.0 | 50.0 |
| 10646 | 15.0 | 15.0 | 93.3 | 0.0 | 0.0 | 6.7 | 6.7 | 0.0 | 6.7 | 50.0 | 50.0 |
| 10659 | 17.0 | 16.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 0.0 | 43.8 | 56.3 |
| 10663 | 22.0 | 19.0 | 94.7 | 0.0 | 5.3 | 0.0 | 5.3 | 13.6 | 5.3 | 50.0 | 50.0 |
| 10668 | 16.0 | 15.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 40.0 | 60.0 |
| 10686 | 16.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 0.0 | 6.3 | 40.0 | 60.0 |
| 10689 | 18.0 | 18.0 | 94.4 | 0.0 | 5.6 | 0.0 | 5.6 | 0.0 | 5.6 | 47.1 | 52.9 |
| 10704 | 16.0 | 16.0 | 93.8 | 0.0 | 6.3 | 0.0 | 6.3 | 0.0 | 6.3 | 40.0 | 60.0 |
| MEAN | 17.8 | 16.4 | 96.8 | 0.0 | 2.6 | 0.7 | 3.3 | 6.6 | 3.3 | 47.8 | 52.2 |
| S.D. | 3.10 | 1.94 | 3.20 | 0.00 | 3.06 | 2.17 | 3.22 | 9.91 | 3.22 | 11.99 | 11.99 |
| S.E. | 0.68 | 0.42 | 0.70 | 0.00 | 0.67 | 0.47 | 0.70 | 2.16 | 0.70 | 2.62 | 2.62 |
| N | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

TABLE A14

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL WEIGHTS [G]

| FETUS # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAM # | MEAN | GROUP 1: 0 MG/KG/DAY | | | | | | | | | | | | | | | | | | | | | | |
| 10598 | 3.6 | 3.3 | 3.6 | 3.7 | E | 3.5 | 4.0 | 3.6 | 3.4/ | 4.0 | 3.3 | 3.3 | 3.3 | 3.3 | 3.5 | 3.7 | 3.8 | 3.6 | 3.4 | 3.7 | | | | |
| 10602 | 3.8 | 3.7 | 3.5 | 3.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.5 | 3.4/ | 4.0 | 4.0 | 4.1 | 3.7 | 3.9 | 4.1 | 3.4 | 3.6 | | | | | | |
| 10604 | 3.9 | 3.7 | 3.9 | 3.7 | 4.0 | 4.1 | E | 4.1 | 3.8/ | 3.8 | 4.3 | 4.0 | 4.2 | 3.9 | 4.0 | 3.5 | 3.7 | | | | | | | |
| 10607 | 3.8 | 3.9 | 3.9 | 2.3 | 3.7 | 4.0/ | 4.2 | 4.0 | 3.9 | 4.2 | 3.7 | 4.1 | 3.7 | 3.7 | | | | | | | | | | |
| 10609 | 3.8 | 4.1 | 3.8 | 4.0 | 4.1/ | 3.9 | 4.1 | 4.0 | 4.1 | 4.0 | 3.7 | 3.2 | 3.9 | 3.8 | 3.6 | E | 3.4 | E | | | | | | |
| 10612 | 3.7 | 3.2 | 3.3 | E | 3.9 | 4.2 | 3.7 | 3.7 | 4.3/ | L | 3.6 | 3.7 | 3.6 | 3.7 | 4.0 | 3.7 | | | | | | | | |
| 10624 | 3.9 | 3.7 | 4.0 | 3.8 | 3.8 | 4.0/ | 3.9 | 3.8 | 3.8 | 4.4 | 4.0 | 4.2 | 3.8 | 3.8 | | | | | | | | | | |
| 10626 | 4.1 | 3.7 | E | 4.3 | 4.3 | E | 4.4 | 4.6/ | 4.4 | 2.5 | 4.0 | 4.3 | 4.5 | 4.2 | 4.1 | 4.0 | 3.7 | | | | | | | |
| 10629 | 4.0 | 3.6 | 4.0 | 3.9 | 4.0 | 4.2/ | 3.9 | 4.2 | 4.2 | 4.0 | 4.2 | 4.0 | 3.9 | | | | | | | | | | | |
| 10632 | 3.7 | 3.7 | 3.6 | 3.6 | 3.6 | 4.0 | 3.9 | 3.8 | 3.7 | 3.5 | 4.1/ | 3.6 | 3.7 | 3.5 | 3.8 | 3.9 | 3.7 | | | | | | | |
| 10633 | 3.6 | 2.7 | 3.3 | 3.7 | 3.7 | 3.7 | 3.8 | 3.8 | 3.7/ | 3.7 | 3.7 | 3.3 | 3.7 | 3.5 | 3.4 | | | | | | | | | |
| 10635 | 3.9 | 3.8 | 3.5 | 3.7 | 3.9 | 4.1 | 3.9 | 4.0 | 3.7 | 3.8 | 4.1/ | 3.8 | E | 4.1 | 4.1 | 4.2 | | | | | | | | |
| 10647 | 3.5 | 3.7 | 3.7 | 3.4 | 3.8 | 3.7 | 2.9/ | 4.0 | 3.7 | E | 3.2 | 3.2 | 3.6 | 3.3 | 3.4 | | | | | | | | | |
| 10649 | 3.7 | E | 3.7 | 3.5 | 3.8 | 3.5 | 3.7 | 4.0/ | 3.5 | 3.9 | E | 3.8 | E | 3.5 | 3.6 | 3.5 | 3.5 | | | | | | | |
| 10650 | 4.2 | 3.8 | 4.4 | 4.1 | 3.5 | 4.3 | 4.1 | 4.4 | 4.6 | 4.3/ | 4.3 | 4.0 | 4.3 | 4.0 | 4.1 | 4.2 | 4.2 | | | | | | | |
| 10652 | 3.9 | 3.9 | 3.8 | 3.6 | 3.6 | 3.8 | 4.2 | 4.1/ | 4.1 | 3.9 | 4.2 | 4.3 | E | E | 4.0 | 3.5 | 3.7 | | | | | | | |
| 10667 | 3.5 | 3.9 | 3.4 | 3.8 | 3.7 | 3.6 | 4.0/ | 3.6 | 3.5 | 3.4 | E | 3.4 | 3.6 | 3.8 | 3.2 | 2.8 | 3.4 | 3.5 | 2.7 | 3.0 | | | | |
| 10671 | 4.2 | 4.2 | 4.0 | E | 3.9 | 4.1 | E | 4.7 | 4.5/ | 4.5 | 4.6 | E | 4.2 | 4.2 | 4.0 | 4.0 | | | | | | | | |
| 10675 | 3.7 | 3.4 | 4.2 | 3.9 | 3.8 | 3.8 | 3.9 | 3.6 | 3.6 | 3.9/ | 3.6 | 3.8 | 3.8 | 3.9 | 3.6 | 3.8 | 4.0 | 3.8 | 3.0 | | | | | |
| 10697 | 3.6 | 3.1 | 4.0 | E / | 3.9 | 3.4 | E | 2.8 | E | 3.9 | 3.7 | 3.7 | 3.8 | | | | | | | | | | | |
| 10706 | 3.8 | 4.0 | 3.7 | 3.9 | 3.8 | 3.6 | 3.7 | 3.7 | 3.9/ | 3.6 | 3.7 | 3.7 | 4.0 | 3.6 | 3.7 | 3.7 | | | | | | | | |
| 10711 | 3.9 | 3.7 | 3.9 | 4.1 | 3.7 | 3.8 | 3.8 | 3.6 | 4.2 | E / | 3.7 | 3.8 | 3.8 | E | 4.0 | 3.9 | 3.9 | 4.2 | | | | | | |
| MEAN | 3.8 | | | | | | | | | | | | | | | | | | | | | | | |
| S.D. | 0.20 | | | | | | | | | | | | | | | | | | | | | | | |
| S.E. | 0.04 | | | | | | | | | | | | | | | | | | | | | | | |
| N | 22 | | | | | | | | | | | | | | | | | | | | | | | |

E = EARLY RESORPTION L = LATE RESORPTION D = DEAD FETUS '/' DENOTES POSITION OF CERVIX

TABLE A14

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL WEIGHTS [G]

| FETUS # | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAM # | MEAN | GROUP 2: 400 MG/KG/DAY | | | | | | | | | | | | | | | | | | | | | | |
| 10589 | 3.5 | 3.4 | 3.3 | 3.4 | 3.7 | 3.7 | 3.8/ | 3.5 | 3.4 | 3.6 | 3.6 | 3.5 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | | | | | | | |
| 10596 | 3.7 | 3.4 | 3.8 | 3.9 | 3.3 | 3.9 | 4.1 | 4.1 | 3.9/ | 3.9 | 3.9 | 3.5 | 3.6 | 3.7 | 3.7 | 3.4 | 3.6 | 3.5 | 3.6 | | | | | |
| 10600 | 3.4 | 3.4 | 3.4 | 3.5 | 3.7 | 3.4 | 3.5 | 3.4 | 2.5/ | 3.5 | 3.1 | 3.4 | 3.3 | 3.6 | 3.6 | 3.6 | 3.2 | 3.4 | | | | | | |
| 10603 | 2.8 | 2.7 | 2.8 | 1.7 | 3.0 | 3.2 | 3.0/ | 2.6 | 2.6 | 3.0 | 3.2 | 3.1 | 1.9 | 3.2 | 2.9 | | | | | | | | | |
| 10618 | 3.5 | 3.5 | 3.6 | 3.7 | 3.7 | 3.2 | 3.4 | 3.6/ | 3.9 | 3.3 | 3.2 | 3.5 | 3.3 | 3.2 | 3.6 | 3.2 | | | | | | | | |
| 10619 | 3.8 | 3.9 | 3.9 | 2.9 | 3.8 | 3.8 | 3.5 | 3.9 | 3.9 | 4.1 | 4.2/ | 3.6 | 3.7 | 3.8 | 3.5 | 3.9 | 3.8 | 3.6 | | | | | | |
| 10623 | 4.0 | 3.8 | 3.7 | 3.8 | 3.9 | 4.1 | 4.0 | 4.0 | 4.1/ | 4.2 | 4.1 | 4.0 | 4.1 | 3.8 | 4.2 | 3.9 | 3.6 | 4.2 | 4.0 | 3.6 | | | | |
| 10625 | 3.9 | 3.8 | 3.5 | 3.7 | 4.3 | 3.9 | 3.7 | 3.8 | 3.7 | 4.0/ | 3.9 | 4.0 | 4.2 | 3.7 | | | | | | | | | | |
| 10636 | 3.4 | 3.5 | 3.2 | 3.4 | 3.2 | 3.6 | 3.4 | 3.3/ | 3.2 | 3.4 | 3.3 | 3.3 | 3.3 | 3.7 | 3.8 | 3.3 | 3.4 | 3.4 | 2.8 | | | | | |
| 10651 | 3.9 | 3.9 | 4.1 | 4.0 | 3.9 | 4.0 | 3.7 | 4.2 | 3.7 | 4.2/ | 4.0 | 3.9 | 3.8 | 4.0 | 4.0 | 3.9 | 3.8 | | | | | | | |
| 10655 | 3.2 | 3.3 | 3.4 | 3.1 | 3.0 | 3.1 | 3.4 | 3.1 | E / | 3.1 | 3.2 | 3.5 | 3.4 | 3.3 | | | | | | | | | | |
| 10657 | 3.7 | 3.7 | 3.5 | 3.4 | 3.5 | 3.5 | 3.8 | 3.9/ | 4.3 | 3.9 | 3.7 | 3.9 | 3.6 | 3.5 | 3.6 | 3.5 | | | | | | | | |
| 10661 | 3.8 | 3.9 | 3.8 | 3.9 | 3.8 | 3.6 | 3.7/ | 3.8 | 4.3 | 4.0 | 4.1 | 3.9 | 3.8 | 3.7 | 3.8 | 3.8 | 3.5 | | | | | | | |
| 10670 | 3.1 | 2.7 | 3.2 | 2.8 | 2.2 | 3.3 | 3.5 | 3.1 | 3.4 | 3.3 | 3.6 | 3.3 | 3.2/ | 3.2 | 3.5 | 3.0 | 3.1 | 2.8 | 3.0 | 2.9 | | | | |
| 10688 | 4.0 | 4.0 | 3.7 | 4.1 | 4.0 | 4.0 | 4.2 | 4.5 | 4.4/ | 3.7 | 3.9 | 3.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.8 | | | | | | | |
| 10691 | 3.7 | 3.6 | 3.6 | 3.8 | 3.4 | 3.8 | 3.8 | 4.0 | 4.1/ | 3.5 | 3.7 | 3.2 | 3.5 | 4.0 | 3.6 | 3.9 | 3.6 | 3.7 | E | | | | | |
| 10696 | 3.9 | 3.8 | 3.9 | 4.1 | 3.8 | 3.7 | E | E | 3.9/ | 4.1 | 3.7 | 4.2 | E | 4.0 | E | E | E | 4.0 | E | | | | | |
| 10699 | 3.1 | 2.3 | 2.9 | 3.3 | 3.2 | 3.3 | 3.3/ | 3.1 | 3.4 | 3.3 | 3.4 | 3.2 | 3.1 | 3.0 | 3.1 | E | | | | | | | | |
| 10703 | 4.0 | 3.9 | 4.0 | 3.7 | 3.8 | 3.9 | E | 4.4 | 3.9/ | 3.9 | 4.2 | 3.8 | 4.3 | 4.1 | 4.0 | 4.1 | | | | | | | | |
| 10705 | 3.9 | 4.1 | 3.8/ | 4.1 | 4.0 | 3.8 | 3.9 | 4.0 | 3.9 | E | 4.0 | 3.7 | 3.9 | 4.0 | 3.8 | | | | | | | | | |
| 10709 | 3.4 | 3.2 | 3.3 | 3.4 | 3.3 | 3.6 | 3.5 | 3.6 | 3.3/ | 3.3 | 3.4 | 3.4 | 3.3 | 3.4 | 3.5 | 3.2 | 2.9 | | | | | | | |
| 10710 | 3.5 | 3.3 | 3.7 | 3.4 | 3.5 | 3.5 | 3.5/ | 3.8 | 3.5 | 3.5 | 3.4 | 3.5 | 3.3 | 3.3 | 3.6 | | | | | | | | | |
| MEAN | 3.6 | | | | | | | | | | | | | | | | | | | | | | | |
| S.D. | 0.34 | | | | | | | | | | | | | | | | | | | | | | | |
| S.E. | 0.07 | | | | | | | | | | | | | | | | | | | | | | | |
| N | 22 | | | | | | | | | | | | | | | | | | | | | | | |

E = EARLY RESORPTION L = LATE RESORPTION D = DEAD FETUS '/' DENOTES POSITION OF CERVIX

TABLE A14

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS 

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL WEIGHTS [G]

| FETUS # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAM # MEAN | GROUP 3: 800 MG/KG/DAY | | | | | | | | | | | | | | | | | | | | | | |
| 10584 3.5 | 3.4 | 3.6 | 3.6 | 3.5 | 3.3 | 3.5 | 3.4 | 3.7 | 3.7/ | 3.6 | 3.5 | 3.6 | 3.6 | 3.5 | 3.2 | 3.3 | 3.4 | 3.3 | | | | | |
| 10586 3.8 | 3.6 | 3.8 | 3.9 | 3.7 | 3.8 | 4.0 | 4.1 | 3.8/ | 3.8 | 4.0 | 3.5 | 3.7 | 3.8 | 4.0 | | | | | | | | | |
| 10588 3.6 | 3.7 | 3.8 | 3.3 | 3.8 | 3.6 | 3.8 | 3.4 | 3.9/ | 3.6 | 3.8 | 3.5 | 3.3 | 3.7 | 3.9 | 3.2 | | | | | | | | |
| 10592 3.6 | 3.3 | 3.3 | 3.3 | 3.5 | 3.6 | 3.7 | 3.8/ | 3.8 | 3.2 | 3.5 | 3.7 | 3.9 | 3.8 | 3.8 | 3.4 | 3.4 | | | | | | | |
| 10594 3.7 | 3.4 | 3.6 | 3.9 | 3.5 | 3.8 | 3.6 | 3.7 | 3.7/ | 3.7 | E | 3.7 | 4.3 | 3.7 | | | | | | | | | | |
| 10601 3.6 | 3.4 | 3.4 | 3.7 | 3.4 | 3.4 | 3.6 | 3.9 | 3.9 | 3.5 | 3.6/ | 3.5 | 3.6 | 3.7 | 3.5 | 3.4 | 3.7 | | | | | | | |
| 10605 3.7 | 3.4 | 3.7 | 4.0 | 3.6 | 3.7 | 3.7 | 3.8/ | 3.8 | 3.7 | 3.6 | | | | | | | | | | | | | |
| 10616 3.7 | 3.5 | 3.6 | 3.7 | 3.7 | 3.5 | 4.2 | 4.0 | 3.8/ | 3.6 | 3.6 | 3.2 | 3.5 | 3.7 | 3.8 | 4.1 | 3.7 | 3.9 | 3.5 | | | | | |
| 10617 4.0 | 3.8 | 3.7 | 3.8 | 4.1 | 4.0 | 4.1/ | E | 4.1 | 4.2 | 4.0 | 3.6 | 4.3 | 3.7 | 4.1 | | | | | | | | | |
| 10631 3.2 | 3.2 | 3.3 | 3.3 | 3.2 | 3.2 | 2.6 | 3.3 | 3.3/ | 3.2 | 3.2 | 2.8 | 3.5 | 3.4 | 3.4 | 3.2 | 3.1 | | | | | | | |
| 10637 3.6 | 3.4 | 3.7 | 3.9 | 4.1 | 3.6 | 3.7 | 3.5/ | 3.7 | 3.9 | 3.9 | 3.4 | 3.5 | 2.7 | 3.4 | | | | | | | | | |
| 10641 3.5 | 3.3 | 3.7 | 3.7 | 3.4 | 3.5 | 3.6 | 3.4 | 3.6 | 3.2/ | 3.6 | 3.3 | 3.5 | E | 3.6 | 3.7 | 3.0 | | | | | | | |
| 10644 3.7 | 3.7 | 3.7 | 3.7 | 3.8 | 3.7 | 3.7/ | 3.6 | E | 3.9 | 3.8 | 3.8 | 3.8 | 3.5 | 3.7 | 3.3 | | | | | | | | |
| 10648 3.6 | 3.5 | 3.7 | 3.9 | 3.9 | 3.5 | 3.9/ | 3.8 | 3.9 | 3.6 | 4.0 | 3.4 | 3.7 | 3.4 | 3.4 | 3.6 | 3.0 | | | | | | | |
| 10656 3.7 | 3.4 | 3.7 | 3.7 | 4.0 | 3.7 | 3.9 | 3.6 | 3.9 | 3.9/ | E | 4.1 | 3.7 | 3.5 | 3.6 | 3.6 | 3.5 | 3.6 | 3.3 | | | | | |
| 10664 3.4 | 3.7 | 3.6 | 3.7 | 3.5 | 3.5 | 3.4 | 3.1 | 3.2 | 3.3/ | 3.4 | 3.3 | E | 3.4 | 3.6 | 3.5 | 3.6 | 3.4 | 3.0 | 3.4 | | | | |
| 10665 5.6-A | 5.3 | 5.6 | 5.0 | 5.6 | 5.9 | 5.4 | 5.7 | 5.7/ | 5.6 | 5.8 | 5.9 | E | 5.7 | 5.7 | 5.6 | | | | | | | | |
| 10666 3.4 | 3.1 | 3.4 | 3.4 | 3.4 | 3.3 | 3.1 | 3.5/ | 3.5 | 3.4 | 3.6 | 3.3 | 3.4 | 3.8 | 3.5 | 3.5 | 3.7 | 3.3 | | | | | | |
| 10673 3.8 | 3.6 | 3.9 | 3.0 | 4.0 | 4.0 | 3.7/ | 3.9 | 3.8 | 4.0 | 3.6 | E | 3.8 | 3.7 | 4.3 | 3.9 | | | | | | | | |
| 10679 3.4 | 3.4 | 3.5 | 3.3 | 3.2 | 3.5 | 3.6 | 3.3 | 3.5 | 3.4 | 3.2 | 3.4/ | 3.6 | 3.8 | 3.3 | 3.3 | 3.3 | | | | | | | |
| 10680 3.4 | 3.5 | 3.5 | 3.4 | 3.6 | 3.6 | 3.1 | 3.5 | 3.3 | 3.7 | 3.6/ | 3.1 | 3.5 | 3.2 | 3.5 | 3.8 | 3.4 | 3.1 | | | | | | |
| 10700 3.4 | 3.3 | 3.8 | 3.3 | 3.4 | 3.5/ | E | 3.4 | 3.1 | 3.2 | 3.6 | 3.4 | 3.4 | 3.3 | 3.7 | 3.6 | | | | | | | | |

| | |
|---|---|
| MEAN | 3.6 |
| S.D. | 0.18 |
| S.E. | 0.04 |
| N | 21 |

E = EARLY RESORPTION L = LATE RESORPTION D = DEAD FETUS '/' DENOTES POSITION OF CERVIX

A = FETUSES OBVIOUSLY ADVANCED BEYOND GESTATION DAY 20; WEIGHT NOT INCLUDED IN CALCULATIONS.

TABLE A14

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 4

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL WEIGHTS [G]

| FETUS # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAM # MEAN | GROUP 4: 1000 MG/KG/DAY | | | | | | | | | | | | | | | | | | | | | | |
| 10582 3.4 | 3.2 | 3.7 | 3.7 | 3.3/ | 2.7 | 3.5 | 3.6 | 3.5 | 3.7 | 3.8 | 3.3 | 3.4 | 3.6 | 3.3 | 3.1 | E | | | | | | | |
| 10583 3.6 | 3.5 | 3.4 | 3.7 | 4.1 | 3.6 | 4.0 | 3.7/ | 3.9 | 3.5 | 3.4 | 3.5 | 3.6 | 3.3 | 3.6 | 3.4 | 3.9 | E | 3.7 | | | | | |
| 10585 3.0 | 3.0 | 3.2 | 3.0 | 3.0 | E | 3.1 | 2.9 | 3.1 | 2.8/ | 3.2 | 3.3 | 2.6 | 3.3 | 2.7 | 3.0 | 3.3 | 3.4 | 2.9 | 2.7 | | | | |
| 10590 3.5 | 3.1 | 3.4 | 3.4 | 3.6 | 3.8 | 3.7/ | 3.5 | 3.6 | 3.4 | 3.5 | 3.5 | 3.6 | 3.6 | 3.4 | 3.3 | 3.2 | | | | | | | |
| 10595 3.4 | 3.3 | 3.3 | 3.2 | 3.6 | 3.7 | 3.4 | 3.3 | 3.5/ | 2.8 | 3.7 | 3.4 | 3.5 | 3.5 | 3.3 | 3.7 | 3.4 | | | | | | | |
| 10597 3.4 | 3.4 | E | 3.5 | 3.2 | 3.5 | E / | 3.3 | 3.5 | 3.3 | E | 3.5 | 3.3 | 3.8 | 3.3 | 3.4 | 3.5 | 3.0 | | | | | | |
| 10599 3.6 | 3.4 | 3.3 | 3.5 | 3.4 | 3.5 | 3.9 | 3.6 | 3.7/ | 3.8 | 3.6 | 3.6 | 3.9 | 3.9 | 3.8 | E | 3.5 | 3.6 | 3.7 | 3.5 | | | | |
| 10606 3.7 | 3.6 | 3.7 | 3.9 | 3.6 | 3.7 | 3.9 | 3.2/ | 3.7 | 3.9 | 3.7 | 3.7 | 3.8 | 3.8 | E | 3.5 | | | | | | | | |
| 10630 3.7 | 3.5 | 3.6 | E | 3.7 | 3.8/ | 4.1 | 3.7 | 3.4 | E | 3.8 | 3.6 | 3.5 | 3.7 | 3.3 | 3.5 | 3.8 | 3.8 | 3.6 | | | | | |
| 10643 3.0 | 3.1 | 3.0 | 3.1 | E | 2.9 | 3.0 | 3.4 | 3.1 | 3.5 | 2.9/ | 2.9 | 3.2 | 3.1 | 2.8 | 3.1 | 2.6 | | | | | | | |
| 10658 3.5 | 3.4 | 3.0 | 3.4 | 3.6 | 3.6 | 3.7 | 3.5 | 3.3/ | 3.3 | 3.5 | 3.6 | 3.4 | 3.6 | 3.4 | | | | | | | | | |
| 10669 3.7 | 3.3 | 3.7 | 3.6 | 3.7 | 3.9/ | 3.8 | 3.3 | 3.7 | 3.7 | 4.1 | 3.7 | 3.6 | 3.5 | 3.6 | E | 3.6 | | | | | | | |
| 10672 4.1 | 4.2 | 4.3 | 4.4 | 4.0 | 2.9 | 3.8 | 4.4 | 4.2 | 4.1/ | 4.2 | 4.4 | 4.2 | E | E | 4.6 | 3.9 | | | | | | | |
| 10674 3.5 | 3.2 | 3.6 | 3.4 | 3.5 | 3.3 | 3.4 | 3.4 | 3.9/ | 3.8 | 3.0 | 3.7 | 3.8 | 3.1 | 3.4 | | | | | | | | | |
| 10676 3.3 | 3.1 | 2.9 | 3.2 | 3.0 | 3.4 | 3.2 | 3.5 | 3.5 | 3.4/ | 3.4 | 3.3 | 3.3 | 3.5 | 3.5 | 3.1 | 3.7 | 3.5 | | | | | | |
| 10678 3.5 | 2.5 | 3.5 | 3.5 | 3.6 | 3.9 | 3.6 | 3.7/ | 3.6 | 3.8 | 3.8 | E | 3.4 | 3.3 | 3.4 | | | | | | | | | |
| 10681 3.6 | 3.5 | E | 3.5 | 3.2 | 3.8 | 3.5 | 3.5 | E / | 3.4 | 3.8 | 3.7 | 3.6 | 3.6 | E | 3.5 | | | | | | | | |
| 10685 3.8 | 3.6 | 3.6 | 3.9 | 3.9 | 3.7 | 3.9 | 3.7 | 3.7 | 4.3 | 3.9/ | 4.1 | 3.8 | 4.0 | 3.8 | 3.9 | 3.8 | 3.6 | 3.8 | | | | | |
| 10687 3.8 | 4.0 | 3.8 | 3.8 | 4.1 | 4.3 | 4.3/ | 4.0 | 2.0 | 4.1 | 3.9 | 3.9 | 4.1 | 3.8 | 3.8 | E | 3.6 | | | | | | | |
| 10692 3.5 | 3.8 | 3.5 | 3.6 | 2.2 | 3.9 | 3.9/ | 3.9 | 3.6 | 3.4 | 3.5 | 3.4 | 3.4 | 3.6 | E | 3.0 | | | | | | | | |
| 10694 3.6 | 3.8 | 3.6 | 3.6 | 3.9 | 2.5 | 3.7/ | 3.5 | 3.4 | 3.7 | 3.4 | 3.8 | 3.9 | 3.8 | 3.5 | 3.3 | | | | | | | | |
| 10708 3.7 | 3.6 | 3.7 | 3.8 | 3.7 | 3.8 | 3.7 | 3.6 | 4.0/ | 3.7 | 3.5 | 3.6 | 3.9 | 3.7 | 3.6 | 3.6 | 3.6 | 4.0 | 3.3 | | | | | |
| MEAN 3.5 | | | | | | | | | | | | | | | | | | | | | | | |
| S.D. 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| S.E. 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| N 22 | | | | | | | | | | | | | | | | | | | | | | | |

E = EARLY RESORPTION L = LATE RESORPTION D = DEAD FETUS '/' DENOTES POSITION OF CERVIX

TABLE A14

PROJECT NO.:WIL-14069 A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS PAGE 5

SPONSOR:LYONDELLBASELL INDIVIDUAL FETAL WEIGHTS [G]

| FETUS # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAM # MEAN | GROUP 5: 1600 MG/KG/DAY | | | | | | | | | | | | | | | | | | | | | | |
| 10591 3.1 | 3.1 | 3.1 | 2.7 | 3.2 | 3.0 | 3.1 | 3.4 | 3.5/ | 3.3 | 3.0 | 3.6 | E | 3.2 | 3.1 | 3.1 | 2.6 | 3.3 | | | | | | |
| 10593 4.0 | 4.0 | E | 4.2 | 4.3 | 4.2/ | 3.9 | 3.9 | 3.9 | 3.7 | 3.8 | 4.2 | 3.8 | 3.8 | 4.0 | 3.8 | 3.8 | | | | | | | |
| 10608 3.3 | 3.3 | 3.1 | 3.3 | 3.3 | 3.1 | 3.5 | 3.8 | 3.4 | 3.4/ | 3.6 | 3.4 | 3.4 | 3.3 | 3.6 | 3.2 | 3.1 | 3.3 | 2.9 | 3.0 | 3.0 | | | |
| 10610 3.2 | 3.3 | 3.4 | 3.1 | 3.2 | 3.1 | 3.3 | 3.2 | 2.9 | 2.9 | 2.8/ | 3.4 | 3.1 | 3.1 | 3.3 | 3.4 | 3.1 | 3.1 | | | | | | |
| 10611 3.3 | 3.2 | 3.2 | 3.3 | 3.3 | E | 3.1 | 3.2/ | 3.1 | 3.5 | 3.6 | 3.5 | 3.3 | 3.4 | 3.4 | 3.2 | | | | | | | | |
| 10613 3.4 | 3.5 | 3.2 | 3.2 | 3.5 | 3.8 | 3.2 | 3.4 | 3.3/ | 3.5 | 3.2 | 3.2 | 3.5 | 3.6 | 3.5 | E | 3.4 | 3.5 | 3.4 | 3.5 | | | | |
| 10615 3.6 | 3.6 | 3.6 | 3.8 | 3.6 | 3.5 | 3.9/ | 3.6 | 3.8 | 3.7 | 3.2 | 3.9 | 3.6 | 3.7 | 3.9 | 3.8 | 3.4 | 3.6 | 3.3 | 3.4 | 3.0 | | | |
| 10620 3.3 | 3.3 | 3.0 | 3.4 | 3.3 | 3.6 | 3.2 | 3.5 | 3.3/ | 3.3 | 3.1 | E | 3.3 | 3.7 | 3.1 | 3.3 | 3.1 | | | | | | | |
| 10621 3.6 | 3.5 | 3.8 | 3.6 | 3.6 | 3.7 | 3.6 | 3.4/ | 3.4 | 3.5 | 3.5 | 3.9 | 3.7 | 3.6 | 3.8 | 3.8 | 3.6 | 3.5 | | | | | | |
| 10627 3.2 | 3.1 | 3.2 | 3.4 | 2.9 | 3.3 | 3.3 | 3.2/ | 3.2 | 3.1 | 3.5 | 3.6 | 3.2 | 3.2 | 2.8 | | | | | | | | | |
| 10628 3.4 | 3.3 | 3.4 | 3.6 | 3.7 | 3.4/ | 2.9 | 3.2 | 3.3 | 3.3 | 3.6 | 3.1 | 3.6 | 3.5 | 3.2 | 3.2 | | | | | | | | |
| 10639 3.4 | 2.9 | 3.5 | 3.5 | 3.6/ | 3.3 | 3.5 | L | 3.5 | 3.5 | 3.4 | 3.2 | 3.5 | 3.3 | | | | | | | | | | |
| 10640 3.6 | 3.5 | 3.8 | 3.5 | 3.5 | 3.5 | 3.7 | 4.0 | 3.3 | 3.8/ | 3.5 | 3.7 | 3.7 | 3.6 | 3.4 | 3.3 | 3.6 | | | | | | | |
| 10642 3.4 | 3.4 | 3.4 | 3.6 | 3.8 | 3.3 | 3.6/ | 3.7 | 3.3 | 3.1 | 3.3 | 3.3 | 3.4 | 3.8 | 3.0 | | | | | | | | | |
| 10646 3.4 | 3.1 | 3.2 | 3.6 | 3.5 | 3.3 | 3.6 | 3.4 | 3.4/ | 3.5 | L | 3.3 | 3.7 | 3.7 | 3.3 | 2.5 | | | | | | | | |
| 10659 3.3 | 3.3 | 3.4 | 3.0 | 3.5 | 3.4 | 3.4 | 3.3/ | 3.3 | 3.2 | 3.1 | 3.3 | 3.2 | 3.1 | 3.3 | 3.3 | 3.0 | | | | | | | |
| 10663 3.6 | 3.6 | E | 3.6 | 3.7 | 3.8 | 3.7 | 3.6 | 4.0/ | 3.8 | 3.6 | 3.5 | 3.1 | 3.4 | 3.7 | 3.8 | 3.5 | 3.3 | 3.6 | 3.6 | | | | |
| 10668 3.4 | 3.3 | 3.4 | 3.6 | 3.1 | 3.7 | 3.5 | 3.2/ | 3.0 | 3.4 | 3.3 | 3.4 | 3.4 | 3.5 | 3.3 | 3.2 | | | | | | | | |
| 10686 3.3 | 3.1 | 3.5 | 3.7 | 3.6 | 3.6 | 3.4 | 3.4/ | 3.4 | 3.1 | 3.3 | 3.5 | 2.5 | 3.4 | 3.4 | E | 2.8 | | | | | | | |
| 10689 3.8 | 3.6 | E | 3.9 | 3.9 | 3.7 | 3.8 | 3.8/ | 3.5 | 3.8 | 3.6 | 4.0 | 3.7 | 4.0 | 3.7 | 4.1 | 3.8 | 3.8 | 4.0 | | | | | |
| 10704 3.4 | 3.3 | 3.5 | 3.3 | 3.4 | 3.3 | E | 3.4/ | 3.4 | 3.3 | 3.4 | 3.3 | 3.7 | 3.4 | 3.4 | 3.2 | 3.6 | | | | | | | |
| MEAN 3.4 | | | | | | | | | | | | | | | | | | | | | | | |
| S.D. 0.21 | | | | | | | | | | | | | | | | | | | | | | | |
| S.E. 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| N 21 | | | | | | | | | | | | | | | | | | | | | | | |

E = EARLY RESORPTION L = LATE RESORPTION D = DEAD FETUS '/' DENOTES POSITION OF CERVIX

PFWTv4.15
05/23/2008
R:05/23/2008

# APPENDIX B

Certificate Of Analysis (Sponsor-Provided Data)

Lyondell Chemical Company
One Houston Center
1221 McKinney
Houston TX 77010

# Certificate Of Analysis

**Certificate of Analysis Contact:**
SAMPLES
SAMPLES
C of A Recipient

**Ship-To Address:**
CHEMICAL MARKETING CONCEPTS
194 PICKETT DISTRICT ROAD
NEW MILFORD CT 06776
USA

| | | | |
|---|---|---|---|
| **Lyondell Material** | : 499245 TBAc TM | **Customer Order No.** | : CMC SAMPLE 4517 |
| **Chemical Description** | : Tertiary Butyl Acetate | **Customer Number** | : SAMPLES |
| **Batch Number** | : OD61002001 | **Date Shipped** | : March 01, 2007 |
| **Vehicle Number** | : N/A | **Lyondell Order No.** | : 1388689 000010 |
| **Estimated Quantity** | : 794 LBS | **Delivery Item No.** | : 81699024 000010 |

| Test Description | Test Result | Specifications Minimum | Maximum | Unit of Measure |
|---|---|---|---|---|
| Vehicle Type | TANK TRUCK | | | |
| Vehicle ID | N/A | | | |
| Lot Number | HLTM | | | |
| Miscellaneous Text | 81611034 | | | |
| Purity | 99.62 | 99.50 | 100.00 | weight % |
| Alcohol (as TBA) | 0.070 | 0.000 | 0.500 | weight % |
| Acidity | 0.0035 | 0.0000 | 0.0100 | weight % |
| Water | 0.0090 | 0.0000 | 0.0500 | weight % |
| APHA Color | 5 | 0 | 10 | APHA Color |

APPROVED BY:

Ed Campbell

Print Date: March 09, 2007 MMGONZAL
This information is available 24 hours a day at
www.CustomerXPRESS.com
Questions ? Call Customer Service: 888-777-0232

This Certificate of Analysis contains the most current information available as of the print date.
This document shall not be reproduced except in full, without the written approval of the issuer.

# APPENDIX C

Purity Analysis Of Bulk Test Substance (WIL Research Laboratories, LLC)

# A TOXICITY STUDY OF TERT-BUTYL ACETATE (TBAc) IN MATED FEMALE RATS

## Analysis Of Test Substance Purity

Analytical Chemistry Department

WIL Research Laboratories, LLC

## TABLE OF CONTENTS

Page

**Table Of Contents** ..... **2**
**Index Of Figures** ..... **2**
**Index Of Tables** ..... **2**
**Index Of Attachments** ..... **3**
**1. Summary** ..... **4**
**2. Introduction** ..... **4**
2.1. Reference Standard Identification ..... 4
**3. Experimental** ..... **5**
3.1. Gas Chromatography ..... 5
3.2. Preparation Of Test Substance Sample ..... 5
3.3. Preparation Of Reference Standard Sample ..... 5
3.4. Assessment Of Test Substance Purity ..... 5
**4. Results And Discussion** ..... **6**
4.1. Test Substance Purity Assessment ..... 8
**5. Conclusion** ..... **8**
**6. Key Study Personnel And Report Submission** ..... **9**

## INDEX OF FIGURES

Figure 1: Representative Chromatogram Of A Bulk t-Butyl Acetate Sample ..... 6

Figure 2: Representative Chromatogram Of The Reference Standard ..... 7

Figure 3: Representative Chromatogram Of A Blank Air Sample ..... 7

## INDEX OF TABLES

Table 1: Purity Assessment Of WIL Log No. 7896A-2 ..... 11

## INDEX OF ATTACHMENTS

Page

I: Supporting Data ..... 12

II: Certificate Of Analysis ..... 14

## 1. SUMMARY

This report provides a detailed description of a method using gas chromatography with flame ionization detection for the determination of test substance (t-butyl acetate) purity. Test substance purity was assessed using gas chromatography with flame ionization detection and was expressed as the area percent of the t-butyl acetate chromatographic peak. A single sample collected from the storage container was analyzed. The mean area percent (purity) of test substance sample collected at the beginning of use in the study was 98.72%.

## 2. INTRODUCTION

This report provides a detailed description of a method using gas chromatography (GC) with flame ionization detection (FID) for the determination of test substance (t-butyl acetate) purity. Test substance purity was assessed using GC/FID and expressed as area percent of the t-butyl acetate chromatographic peak. A single sample of test substance was collected from the storage container prior to use for inhalation exposure and analyzed for purity.

### 2.1. REFERENCE STANDARD IDENTIFICATION

The reference standard was received from Aldrich Chemical Co., St. Louis, Missouri, on 20 March 2008 as follows:

| Identification | Quantity Received | Physical Description |
|---|---|---|
| t-butyl acetate<br>Lot no. 17531AB<br>Expiration Date: 20 March 2009<br>[WIL log no. ARS-0388A] | 1 Bottle<br>Total volume: 5 mL | Clear liquid |

A Certificate of Analysis for the reference standard was provided by the supplier and is presented in Appendix B. The reference standard was stored at room temperature.

## 3. EXPERIMENTAL

### 3.1. GAS CHROMATOGRAPHY

| | |
|---|---|
| Instrument: | Agilent 6890 gas chromatograph equipped with a flame ionization detector, an HP7673 autosampler and Dionex Chromeleon data system or equivalent system |
| Column: | DB-Wax column, 30 m × 0.25 mm ID, 0.25-µm film thickness |
| Temperature Program: | Initial temperature 40°C, hold for 5 minutes |
| | Ramp at 10°C/minute to 250°C, for 0 minutes |
| Flow: | 1 mL/minute (helium) |
| Injector Temperature: | 200°C |
| Injection Volume: | 0.1 µL (split 50:1) |
| Detector: | 250°C |
| Retention Time: | Approximately 7.3 minutes<br>(may vary based on instrument and column used) |
| Run Time: | 26 minutes |

### 3.2. PREPARATION OF TEST SUBSTANCE SAMPLE

Samples of test substance (t-butyl acetate, WIL log no. 7896A-2) were received from the WIL Formulations Department and analyzed for test substance purity. Samples of t-butyl acetate were transferred to a deactivated limited volume insert contained within an amber autosampler vial.

### 3.3. PREPARATION OF REFERENCE STANDARD SAMPLE

Samples of reference standard (t-butyl acetate, WIL log no. ARS-0388A) were transferred to amber autosampler vials.

### 3.4. ASSESSMENT OF TEST SUBSTANCE PURITY

Typically, triplicate injections were made each of reference standard and sample. The peak area data from the last 2 injections of each reference standard or sample were

transferred to a Microsoft® Excel spreadsheet where the purity was calculated based on the area percent of the peaks present in the chromatograms.

## 4. RESULTS AND DISCUSSION

Samples were collected at the beginning of the study and were prepared for assessment of purity as previously described. Under the described chromatographic conditions, the retention time for t-butyl acetate was approximately 7.3 minutes. Figure 1 is a typical chromatogram of the test substance sample. Figure 2 is the chromatogram of authentic (WIL log no. ARS-0388A) t-butyl acetate (99.59% pure) purchased from Aldrich Chemical Co., St. Louis, Missouri. Figure 3 is a representative chromatogram of a blank sample. The total analysis time required for each run was 26 minutes.

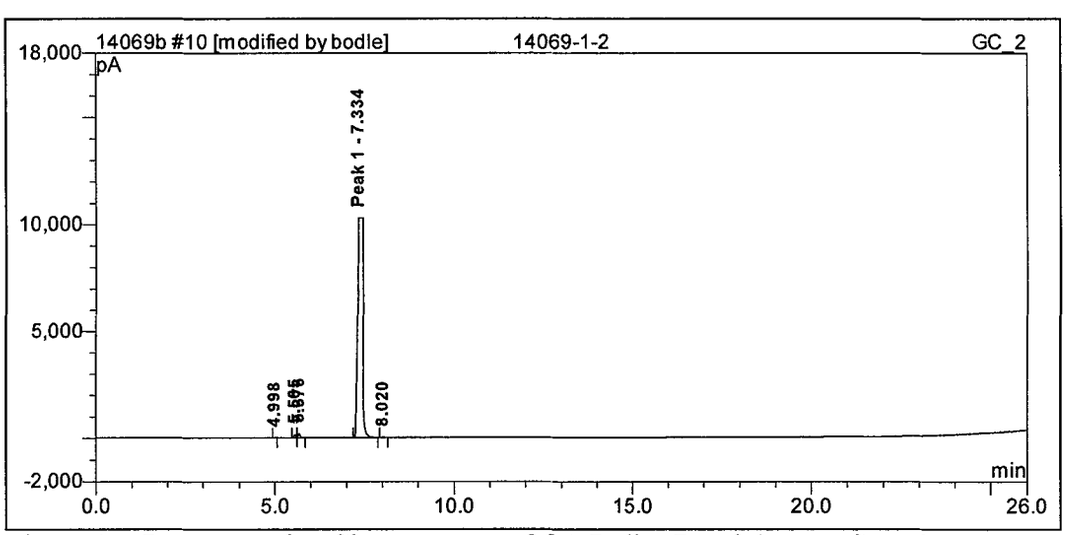



Figure 1: Representative Chromatogram Of A Bulk t-Butyl Acetate Sample

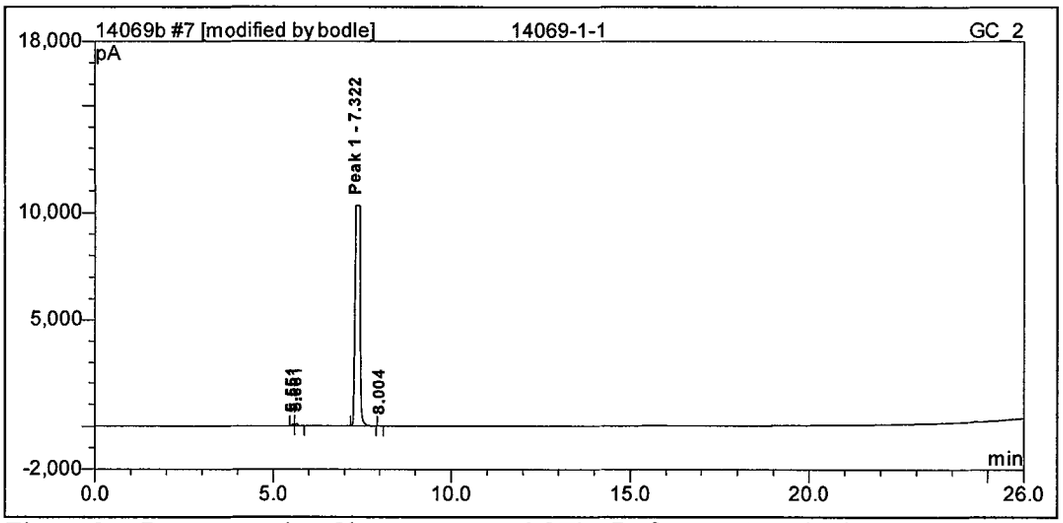



Figure 2: Representative Chromatogram Of The Reference Standard

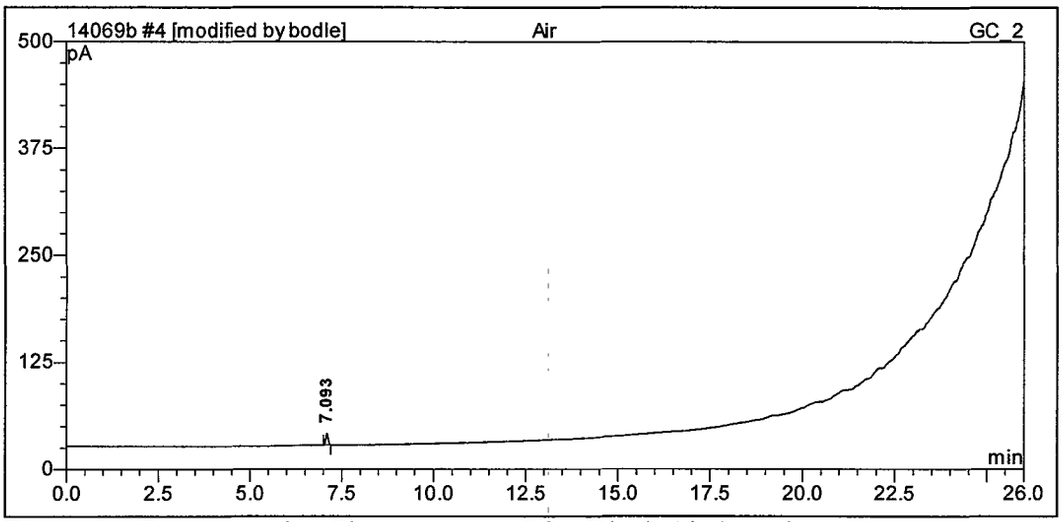



Figure 3: Representative Chromatogram Of A Blank Air Sample

## 4.1. TEST SUBSTANCE PURITY ASSESSMENT

As shown in Figures 1 and 2, one major peak (retention time at approximately 7.3 minutes) was present in the GC/FID chromatograms used to assess t-butyl acetate purity. Also, 3 to 4 very minor peaks, maximum area percent of 0.70%, were present in these purity assessments. The peak area percent data from the analysis of the sample from the storage container are summarized in Table 1. The mean area percent (purity) of the test substance sample collected prior to use for inhalation exposures was 98.72%.

## 5. CONCLUSION

Test substance purity was assessed using GC/FID and expressed as area percent of the t-butyl acetate chromatographic peak. A sample of test substance was collected prior to use for inhalation exposures from the storage container and analyzed for purity.

## 6. KEY STUDY PERSONNEL AND REPORT SUBMISSION

Report Submitted By:

Pragati Sawhney Coder, PhD
Staff Toxicologist, Developmental and
Reproductive Toxicology
Study Director

2 Sept 2008.
Date

Report Prepared By:

Eric S. Bodle, PhD
Research Chemist, Analytical Chemistry

29 Aug 2008
Date

Report Reviewed By:

Philip L. Stetson, MD, PhD
Associate Director, Analytical Chemistry

29 August 2008
Date

Daniel W. Sved, PhD
Director, Metabolism and Analytical Chemistry

29 August 2008
Date

Study Personnel:

| | |
|---|---|
| Stephen F. Farris, BS | Chemist I |
| Michelle M. Flora, BA | Publishing Specialist, Study Analysis and Reports |
| Melissa A. Hull, BS | Group Supervisor, Regulatory Technical Services |

**TABLE 1**

A TOXICITY STUDY OF TERT-BUTYL ACETATE (TBAc)
IN MATED FEMALE RATS

**Table 1: Purity Assessment Of WIL Log No. 7896A-2**
(Analyzed 26Mar2008)

| Analyzed Date | Ref. # (14069-) | Sample ID | Run Number | Percent Area (%) | Mean Purity (%) |
|---|---|---|---|---|---|
| 26Mar2008 | 1-2 | TMS-7896A-2 | 21 | 98.75 | **98.72** |
| | | | 22 | 98.69 | |

14069results.xls 2
Printed: 05/08/08 3:18 PM

# ATTACHMENT I

Supporting Data

A TOXICITY STUDY OF TERT-BUTYL ACETATE (TBAc)
IN MATED FEMALE RATS
**Table 1a : Purity Assessment of WIL Log No. 7896A-2**
(Analyzed 26Mar2008)

| Run# | Ref # | Ret Time | Area | Percent Area | Mean Relative Area (%) |
|---|---|---|---|---|---|
| 18 | 14069-1-1 | 5.55 | 5.034 | 0.30 | **99.28** |
| | ARS-0388A#2 | 5.66 | 6.677 | 0.40 | |
| | | 7.10 | 0.1458 | 0.0087 | |
| | | 7.32 | 1658 | 99.29 | |
| 19 | 14069-1-1 | 5.55 | 5.206 | 0.31 | |
| | ARS-0388A#2 | 5.66 | 7.116 | 0.42 | |
| | | 7.32 | 1685 | 99.26 | |
| | | 8.00 | 0.2390 | 0.014 | |
| 21 | 14069-1-2 | 5.57 | 8.109 | 0.48 | **98.72** |
| | TMS-7896A-2 | 5.68 | 11.49 | 0.68 | |
| | | 7.34 | 1661 | 98.75 | |
| | | 8.02 | 1.366 | 0.081 | |
| 22 | 14069-1-2 | 5.00 | 0.1640 | 0.0094 | |
| | TMS-7896A-2 | 5.57 | 8.640 | 0.50 | |
| | | 5.68 | 12.25 | 0.70 | |
| | | 7.33 | 1716 | 98.69 | |
| | | 8.02 | 1.647 | 0.095 | |

14069results.xls 2A
Printed: 05/08/08 3:18 PM

# ATTACHMENT II

Certificate of Analysis

SIGMA-ALDRICH

## Certificate of Analysis

| | |
|---|---|
| **Product Name** | *tert*-Butyl acetate, ≥99% |
| **Product Number** | B88209 |
| **Product Brand** | Aldrich |
| **CAS Number** | 540-88-5 |
| **Molecular Formula** | $CH_3COOC(CH_3)_3$ |
| **Molecular Weight** | 116.16 |

| TEST | SPECIFICATION | LOT 17531AB RESULTS |
|---|---|---|
| **APPEARANCE** | COLORLESS LIQUID | COLORLESS LIQUID |
| **INFRARED SPECTRUM** | CONFORMS TO STRUCTURE AND STANDARD AS | CONFORMS TO STRUCTURE. |
| **GAS LIQUID CHROMATOGRAPHY** | 99.0% (MINIMUM) | 99.5 % |
| **QUALITY CONTROL ACCEPTANCE DATE** | | FEBRUARY 2003 |

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

# APPENDIX D

Animal Room Environmental Conditions

A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
TEMPERATURE/HUMIDITY - DAILY SUMMARY REPORT BY STUDY

PROJECT NO.:WIL- 14069
SPONSOR: LYONDELLBASELL

STUDY SPECIFICATIONS: 14069

DATE IN: 03/11/08 TIME IN: 11:00
DATE OUT: 04/19/08 TIME OUT: 8:00

ROOM SPECIFICATIONS: B ROOM 36
SPECIES: RAT

LOW TEMPERATURE °F: 66.0 HIGH TEMPERATURE °F: 76.0 LOW HUMIDITY: 30.0
LOW TEMPERATURE °C: 18.9 HIGH TEMPERATURE °C: 24.4 HIGH HUMIDITY: 70.0

| | TEMPERATURE | | HUMIDITY |
|---|---|---|---|
| DATE | MEAN (°F) | MEAN (°C) | MEAN (%RH) |
| 11-Mar-08 | 70.4 | 21.3 | 43.7 |
| 12-Mar-08 | 70.7 | 21.5 | 44.0 |
| 13-Mar-08 | 70.7 | 21.5 | 42.5 |
| 14-Mar-08 | 70.7 | 21.5 | 44.6 |
| 15-Mar-08 | 70.4 | 21.3 | 44.2 |
| 16-Mar-08 | 70.7 | 21.5 | 44.2 |
| 17-Mar-08 | 70.7 | 21.5 | 43.0 |
| 18-Mar-08 | 70.3 | 21.3 | 44.4 |
| 19-Mar-08 | 70.7 | 21.5 | 47.5 |
| 20-Mar-08 | 70.4 | 21.3 | 45.8 |
| 21-Mar-08 | 70.6 | 21.5 | 45.6 |
| 22-Mar-08 | 70.4 | 21.4 | 44.8 |
| 23-Mar-08 | 70.6 | 21.5 | 44.9 |
| 24-Mar-08 | 70.6 | 21.5 | 45.7 |
| 25-Mar-08 | 70.8 | 21.6 | 45.1 |
| 26-Mar-08 | 70.8 | 21.5 | 44.1 |
| 27-Mar-08 | 71.1 | 21.7 | 42.4 |
| 28-Mar-08 | 71.3 | 21.8 | 42.2 |
| 29-Mar-08 | 71.2 | 21.8 | 40.8 |
| 30-Mar-08 | 71.0 | 21.6 | 41.9 |
| 31-Mar-08 | 70.9 | 21.6 | 45.2 |
| 01-Apr-08 | 71.6 | 22.0 | 41.8 |
| 02-Apr-08 | 70.9 | 21.6 | 43.7 |

NOTE: + = VALUE WAS GREATER THAN HIGH RANGE
\- = VALUE WAS LESS THAN LOW RANGE
NOTE: MEANS REPRESENT THE MEAN OF THE DAILY VALUES

REPORT 4
VERSION 1.09
6/4/2008 14:29

A TOXICITY STUDY OF TERT-BUTYL ACETATE IN MATED FEMALE RATS
TEMPERATURE/HUMIDITY - DAILY SUMMARY REPORT BY STUDY

PROJECT NO.:WIL- 14069
SPONSOR: LYONDELLBASELL

STUDY SPECIFICATIONS: 14069

DATE IN: 03/11/08 TIME IN: 11:00
DATE OUT: 04/19/08 TIME OUT: 8:00

ROOM SPECIFICATIONS: B ROOM 36
SPECIES: RAT

LOW TEMPERATURE °F: 66.0 HIGH TEMPERATURE °F: 76.0 LOW HUMIDITY: 30.0
LOW TEMPERATURE °C: 18.9 HIGH TEMPERATURE °C: 24.4 HIGH HUMIDITY: 70.0

| | TEMPERATURE | | HUMIDITY |
|---|---|---|---|
| DATE | MEAN (°F) | MEAN (°C) | MEAN (%RH) |
| 03-Apr-08 | 71.1 | 21.7 | 46.7 |
| 04-Apr-08 | 71.2 | 21.8 | 46.7 |
| 05-Apr-08 | 70.9 | 21.6 | 43.2 |
| 06-Apr-08 | 70.6 | 21.5 | 44.3 |
| 07-Apr-08 | 70.8 | 21.6 | 44.4 |
| 08-Apr-08 | 70.8 | 21.6 | 44.7 |
| 09-Apr-08 | 71.0 | 21.6 | 44.1 |
| 10-Apr-08 | 70.8 | 21.6 | 44.3 |
| 11-Apr-08 | 70.9 | 21.6 | 46.4 |
| 12-Apr-08 | 70.9 | 21.6 | 43.6 |
| 13-Apr-08 | 71.0 | 21.7 | 44.5 |
| 14-Apr-08 | 70.8 | 21.6 | 44.0 |
| 15-Apr-08 | 70.7 | 21.5 | 43.6 |
| 16-Apr-08 | 71.0 | 21.7 | 42.8 |
| 17-Apr-08 | 70.5 | 21.4 | 42.8 |
| 18-Apr-08 | 71.4 | 21.9 | 40.0 |
| 19-Apr-08 | 71.0 | 21.7 | 41.0 |

NOTE: + = VALUE WAS GREATER THAN HIGH RANGE
- = VALUE WAS LESS THAN LOW RANGE
NOTE: MEANS REPRESENT THE MEAN OF THE DAILY VALUES

REPORT 4
VERSION 1.09
6/4/2008 14:29

STUDY SPECIFICATIONS: 14069 DATE IN: 03/11/08 TIME IN: 11:00
DATE OUT: 04/19/08 TIME OUT: 8:00

ROOM SPECIFICATIONS: B ROOM 36 LOW TEMPERATURE °F: 66.0 HIGH TEMPERATURE °F: 76.0 LOW HUMIDITY: 30.0
SPECIES: RAT LOW TEMPERATURE °C: 18.9 HIGH TEMPERATURE °C: 24.4 HIGH HUMIDITY: 70.0

| | TEMPERATURE | | HUMIDITY |
|---|---|---|---|
| DATE | MEAN (°F) | MEAN (°C) | MEAN (%RH) |

| **GRAND STATS** | MEAN | MIN | MAX |
|---|---|---|---|
| TEMPERATURE °F | 70.8 | 70.3 | 71.6 |
| TEMPERATURE °C | 21.6 | 21.3 | 22.0 |
| HUMIDITY (%RH) | 44.0 | 40.0 | 47.5 |
| N DAYS | 40 | | |



NOTE: + = VALUE WAS GREATER THAN HIGH RANGE
- = VALUE WAS LESS THAN LOW RANGE
NOTE: MEANS REPRESENT THE MEAN OF THE DAILY VALUES

| | | | |
|---|---|---|---|
| ROOM SPECIFICATIONS: | B ROOM 36 | | |
| SPECIES: | RAT | | |
| LOW TEMPERATURE: | 66.0 | DATE IN: | 03/11/08 |
| HIGH TEMPERATURE: | 76.0 | TIME IN: | 11:00 |
| LOW HUMIDITY: | 30.0 | DATE OUT: | 04/19/08 |
| HIGH HUMIDITY: | 70.0 | TIME OUT: | 8:00 |

**ROOM B ROOM 36 SUMMARY**

| | TEMPERATURE | HUMIDITY |
|---|---|---|
| MEAN | 70.8 | 44.0 |
| MIN | 68.7 | 23.8 |
| MAX | 79.8 | 61.6 |
| SD | 1.18 | 3.23 |
| N SAMPLES | 933 | 934 |
| FIRST DAY | 03/11/08 | |
| LAST DAY | 04/19/08 | |
| N DAYS | 40 | |

NOTE: TEMPERATURE UNITS = DEGREES FAHRENHEIT
HUMIDITY UNITS = % RELATIVE HUMIDITY
NOTE: MEANS REPRESENT THE MEAN OF ALL VALUES

**STUDY 14069 SUMMARY**

| | | |
|---|---|---|
| MEAN | 70.8 | 44.0 |
| MIN | 68.7 | 23.8 |
| MAX | 79.8 | 61.6 |
| SD | 1.18 | 3.23 |
| N SAMPLES | 933 | 934 |
| FIRST DAY | 03/11/08 | |
| LAST DAY | 04/19/08 | |
| N DAYS | 40 | |



NOTE: TEMPERATURE UNITS = DEGREES FAHRENHEIT
HUMIDITY UNITS = % RELATIVE HUMIDITY
NOTE: MEANS REPRESENT THE MEAN OF ALL VALUES

# APPENDIX E

WIL Developmental Historical Control Data Version 3.7 [Crl:CD(SD) Rats]

**Mean of Study Means**

| Endpoint | Total | Mean | S.D. | SEM | Median | Min | Max | 25th Quartile | 75th Quartile |
|---|---|---|---|---|---|---|---|---|---|
| **NO. OF DATASETS** | 114 | | | | | | | | |
| Total No. of Animals in the Control Group | 2832 | | | | | | | | |
| No. of Animals That Died | 3 | | | | | | | | |
| No. of Animals That Aborted | 0 | | | | | | | | |
| No. of Animals That Delivered | 0 | | | | | | | | |
| Percent Pregnant | | 96.3 | 4.98 | 0.47 | 100.0 | 76.0 | 100.0 | 95.1 | 100.0 |
| No. Gravid | 2728 | | | | | | | | |
| No. With Only Resorptions | 4 | | | | | | | | |
| No. of Dams With Live Fetuses | 2722 | | | | | | | | |
| No. Nongravid | 104 | | | | | | | | |
| No. of Animals Examined at Laparohysterectomy | 2829 | | | | | | | | |
| Mean Gravid Uterine Weight (g) | | 85.5 | 3.60 | 0.34 | 85.6 | 77.8 | 95.4 | 83.4 | 88.0 |
| Mean No. Viable Fetuses/Dam | | 15.2 | 0.57 | 0.05 | 15.2 | 13.9 | 16.7 | 14.8 | 15.6 |
| Total No. Viable Fetuses | 41490 | | | | | | | | |
| Viable Fetuses (%/Litter) | | 95.4 | 1.48 | 0.14 | 95.7 | 91.4 | 98.0 | 94.5 | 96.3 |
| Mean No. Postimplantation Loss/Dam | | 0.7 | 0.22 | 0.02 | 0.7 | 0.3 | 1.4 | 0.6 | 0.8 |
| Total No. of Postimplantation Losses | 1953 | | | | | | | | |
| Postimplantation Loss (%/Litter) | | 4.6 | 1.48 | 0.14 | 4.3 | 2.0 | 8.6 | 3.7 | 5.5 |
| Early Resorptions (%/Litter) | | 4.5 | 1.51 | 0.14 | 4.3 | 1.5 | 8.6 | 3.5 | 5.4 |
| Late Resorptions (%/Litter) | | 0.1 | 0.17 | 0.02 | 0.0 | 0.0 | 0.8 | 0.0 | 0.2 |
| Dead Fetuses (%/Litter) | | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| Mean No. Implantations/Dam | | 15.9 | 0.59 | 0.06 | 15.9 | 14.5 | 17.5 | 15.6 | 16.3 |
| Mean No. Corpora Lutea/Dam | | 17.4 | 0.80 | 0.07 | 17.3 | 15.8 | 19.4 | 16.7 | 17.8 |
| Mean No. Preimplantation Loss/Dam | | 1.4 | 0.66 | 0.06 | 1.4 | 0.3 | 3.1 | 0.9 | 1.9 |
| Total No. Preimplantation Losses | 3916 | | | | | | | | |
| Preimplantation Loss (%/Litter) | | 7.7 | 3.28 | 0.31 | 7.6 | 1.5 | 15.7 | 5.3 | 9.9 |
| Total No. Male Fetuses | 20659 | | | | | | | | |
| Total No. Female Fetuses | 20831 | | | | | | | | |
| % Males/Litter | | 49.7 | 2.60 | 0.24 | 49.4 | 44.5 | 56.0 | 47.9 | 51.5 |
| % Females/Litter | | 50.3 | 2.60 | 0.24 | 50.6 | 44.0 | 55.5 | 48.5 | 52.1 |
| Mean Fetal Body Weight (g) | | 3.6 | 0.10 | 0.01 | 3.6 | 3.4 | 3.9 | 3.6 | 3.7 |
| Mean Male Body Weight (g) | | 3.7 | 0.11 | 0.01 | 3.7 | 3.5 | 4.0 | 3.7 | 3.8 |
| Mean Female Body Weight (g) | | 3.5 | 0.10 | 0.01 | 3.5 | 3.4 | 3.8 | 3.5 | 3.6 |

**Mean of Study Means**

| | | |
|---|---|---|
| **NO. OF DATASETS** | 114 | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| **MALFORMATIONS (% Per Litter)** | **Mean** | **S.D.** | **SEM** | **Median** | **Min** | **Max** | **25th Quartile** | **75th Quartile** |
|---|---|---|---|---|---|---|---|---|
| TOTAL EXTERNAL MALFORMATIONS | 0.1 | 0.22 | 0.02 | 0.0 | 0.0 | 1.3 | 0.0 | 0.2 |
| TOTAL VISCERAL MALFORMATIONS | 0.1 | 0.17 | 0.02 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| TOTAL SKELETAL MALFORMATIONS | 0.1 | 0.24 | 0.02 | 0.0 | 0.0 | 1.1 | 0.0 | 0.2 |
| **EXTERNAL** | | | | | | | | |
| Aglossia | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Anal Atresia | 0.0 | 0.05 | 0.01 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Apodia | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Astomia | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Carpal and/or Tarsal Flexure | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Cleft Face | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Cleft Palate | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Cyclopia | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Ectromelia | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Exencephaly with or without Open Eyelid(s) | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Fetal Anasarca | 0.0 | 0.14 | 0.01 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 |
| Filamentous Tail | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Gastroschisis | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Hydrocephaly with or without Dome Head | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Mandibular Agnathia | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Mandibular Micrognathia | 0.0 | 0.06 | 0.01 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Maxillary Agnathia | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Meningoencephalocele | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Microphthalmia and/or Anophthalmia | 0.0 | 0.08 | 0.01 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| Omphalocele | 0.0 | 0.06 | 0.01 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Open Eyelid(s) | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |

Mean of Study Means

| | | |
|---|---|---|
| **NO. OF DATASETS** | 114 | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| MALFORMATIONS (% Per Litter) | Mean | S.D. | SEM | Median | Min | Max | 25th Quartile | 75th Quartile |
|---|---|---|---|---|---|---|---|---|
| **EXTERNAL** | | | | | | | | |
| Proboscis-Like Nose | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Tail- Short | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Umbilical Herniation of the Intestine | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Vertebral Agenesis | 0.1 | 0.55 | 0.05 | 0.0 | 0.0 | 5.9 | 0.0 | 0.0 |
| **VISCERAL** | | | | | | | | |
| Aorta- Narrowed | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Epididymis- Absent | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Heart and/or Great Vessel Anomaly | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Hydrocephaly | 0.0 | 0.09 | 0.01 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| Interrupted Aortic Arch | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Kidney(s) and/or Ureter(s) Absent | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Lung(s)- Lobular Agenesis | 0.0 | 0.05 | 0.01 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 |
| Lung(s)- Lobular Dysgenesis | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Retroesophageal Aortic Arch | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Situs Inversus | 0.0 | 0.08 | 0.01 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Testis- Absent | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Thyroid Gland(s)- Absent | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| **SKELETAL** | | | | | | | | |
| Bent Limb Bone(s) | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Costal Cartilage Anomaly | 0.0 | 0.05 | 0.01 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Rib Anomaly | 0.0 | 0.08 | 0.01 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Rib(s)- Only 11 Pairs Present | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Rib(s)- Only 12 Pairs Present | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Skull Anomaly | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Sternebra(e)- Fused | 0.0 | 0.10 | 0.01 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |

**Mean of Study Means**

| | | |
|---|---|---|
| **NO. OF DATASETS** | 114 | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| **MALFORMATIONS (% Per Litter)** | **Mean** | **S.D.** | **SEM** | **Median** | **Min** | **Max** | **25th Quartile** | **75th Quartile** |
|---|---|---|---|---|---|---|---|---|
| **SKELETAL** | | | | | | | | |
| Sternebra(e)- Malaligned (Severe) | 0.0 | 0.06 | 0.01 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Sternoschisis | 0.0 | 0.08 | 0.01 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 |
| Vertebral Anomaly with or without Associated Rib Anomaly | 0.0 | 0.12 | 0.01 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| Vertebral Centra Anomaly | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |

Mean of Study Means

| | | |
|---|---|---|
| **NO. OF DATASETS** | 114 | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| VARIATIONS (% Per Litter) | Mean | S.D. | SEM | Median | Min | Max | 25th Quartile | 75th Quartile |
|---|---|---|---|---|---|---|---|---|
| TOTAL EXTERNAL VARIATIONS | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| TOTAL VISCERAL VARIATIONS | 0.3 | 0.43 | 0.04 | 0.0 | 0.0 | 2.7 | 0.0 | 0.3 |
| TOTAL SKELETAL VARIATIONS | 33.7 | 7.02 | 0.66 | 33.4 | 18.0 | 50.4 | 29.7 | 37.5 |
| **EXTERNAL** | | | | | | | | |
| Twinning | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| **VISCERAL** | | | | | | | | |
| Adrenal Gland(s)- Enlarged | 0.0 | 0.14 | 0.01 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 |
| Hemorrhagic Iris | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Hemorrhagic Ring Around the Iris | 0.0 | 0.06 | 0.01 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Kidney(s)- Small | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Liver- Accessory Lobule(s) | 0.0 | 0.09 | 0.01 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| Liver- Pale | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Liver- Swollen | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Major Blood Vessel Variation | 0.1 | 0.16 | 0.01 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| Renal Papilla(e) not Developed and/or Distended Ureter(s) | 0.1 | 0.34 | 0.03 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 |
| Spleen- Accessory | 0.0 | 0.09 | 0.01 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| Spleen- Pale | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Spleen- Small | 0.0 | 0.06 | 0.01 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| Testis- Small | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| **SKELETAL** | | | | | | | | |
| 14th Full Rib(s) | 0.1 | 0.17 | 0.02 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| 14th Rudimentary Rib(s) | 6.7 | 2.97 | 0.28 | 6.1 | 1.4 | 15.1 | 4.5 | 8.6 |
| 25 Presacral Vertebrae | 0.1 | 0.34 | 0.03 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 |
| 27 Presacral Vertebrae | 0.1 | 0.26 | 0.02 | 0.0 | 0.0 | 1.8 | 0.0 | 0.3 |

**Mean of Study Means**

| | | |
|---|---|---|
| **NO. OF DATASETS** | **114** | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| VARIATIONS (% Per Litter) | Mean | S.D. | SEM | Median | Min | Max | 25th Quartile | 75th Quartile |
|---|---|---|---|---|---|---|---|---|
| **SKELETAL** | | | | | | | | |
| 7th Cervical Rib(s) | 0.8 | 0.78 | 0.07 | 0.6 | 0.0 | 3.3 | 0.2 | 1.2 |
| 7th Sternebra | 0.1 | 0.29 | 0.03 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 |
| Bent Rib(s) | 0.2 | 0.48 | 0.04 | 0.0 | 0.0 | 4.0 | 0.0 | 0.3 |
| Cervical Centrum #1 Ossified | 20.1 | 6.00 | 0.56 | 19.6 | 6.6 | 35.8 | 16.2 | 24.0 |
| Entire Sternum Unossified | 0.0 | 0.06 | 0.01 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Extra Site of Ossification Anterior to Cervical Centrum #2 | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Extra Site of Ossification Anterior to Rib #5 | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Extra Site of Ossification Anterior to Sternebra #1 | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Extra Site of Ossification Ventral to Cervical Centrum #2 | 0.0 | 0.02 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Hyoid Unossified | 1.4 | 0.96 | 0.09 | 1.3 | 0.0 | 4.2 | 0.6 | 2.1 |
| Ischium Unossified | 0.0 | 0.06 | 0.01 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 |
| Pubis Unossified | 0.1 | 0.24 | 0.02 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 |
| Reduced Ossification of the 13th Rib(s) | 0.6 | 0.67 | 0.06 | 0.4 | 0.0 | 3.0 | 0.2 | 0.8 |
| Reduced Ossification of the Limb Bone(s) | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Reduced Ossification of the Rib(s) | 0.0 | 0.14 | 0.01 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 |
| Reduced Ossification of the Skull | 0.1 | 0.19 | 0.02 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| Reduced Ossification of the Vertebral Arches | 0.1 | 0.20 | 0.02 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 |
| Skull Bone(s)- Accessory | 0.0 | 0.04 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Sternebra(e) #1, #2, #3 and/or #4 Unossified | 0.2 | 0.29 | 0.03 | 0.0 | 0.0 | 1.3 | 0.0 | 0.3 |
| Sternebra(e) #5 and/or #6 Unossified | 7.1 | 6.16 | 0.58 | 4.4 | 0.2 | 23.1 | 2.5 | 10.7 |
| Sternebra(e)- Malaligned (Slight or Moderate) | 0.3 | 0.50 | 0.05 | 0.2 | 0.0 | 3.0 | 0.0 | 0.5 |
| Unco-Ossified Vertebral Centra | 0.0 | 0.03 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Vertebral Centra Unossified | 0.0 | 0.05 | 0.00 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |

## Modal Distribution of Fetal Body Weights

| | |
|---|---|
| **No. of Datasets in Historical Control** | **114** |
| Range of Study Dates | 4/21/1998 - 10/7/2006 |
| No. of Dams in Historical Control | 2832 |
| No. of Dams with Live Fetuses | 2722 |
| Mean Fetal Body Weight Range (g) | 3.4 - 3.9 |

| **Mean Fetal Body Weight (g)** | **3.4** | **3.5** | **3.6** | **3.7** | **3.8** | **3.9** |
|---|---|---|---|---|---|---|
| Total No. Datasets | 2 | 21 | 36 | 38 | 14 | 3 |
| Mean Litter Size | 15.1 | 15.3 | 15.2 | 15.3 | 14.8 | 15.0 |
| Litter Size Range | 15.0 - 15.1 | 14.4 - 16.5 | 14.2 - 16.7 | 14.1 - 16.6 | 13.9 - 15.8 | 14.8 - 15.1 |

**Summary Incidence Malformations and Variations**
(Total Number Fetuses/Litters Affected)
Ranked Uppermost to Nethermost

| | | |
|---|---|---|
| **NO. OF DATASETS** | **114** | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| **MALFORMATIONS** | **Number Fetuses** | **Litters** |
|---|---|---|
| **EXTERNAL** | | |
| Microphthalmia and/or Anophthalmia | 10 | 10 |
| Vertebral Agenesis | 9 | 9 |
| Fetal Anasarca | 7 | 5 |
| Filamentous Tail | 5 | 5 |
| Mandibular Micrognathia | 5 | 5 |
| Omphalocele | 5 | 5 |
| Anal Atresia | 4 | 4 |
| Cleft Palate | 4 | 4 |
| Umbilical Herniation of the Intestine | 3 | 3 |
| Aglossia | 2 | 2 |
| Carpal and/or Tarsal Flexure | 2 | 2 |
| Cyclopia | 2 | 2 |
| Mandibular Agnathia | 2 | 2 |
| Tail- Short | 2 | 2 |
| Apodia | 1 | 1 |
| Astomia | 1 | 1 |
| Cleft Face | 1 | 1 |
| Ectromelia | 1 | 1 |
| Exencephaly with or without Open Eyelid(s) | 1 | 1 |
| Gastroschisis | 1 | 1 |
| Hydrocephaly with or without Dome Head | 1 | 1 |
| Maxillary Agnathia | 1 | 1 |
| Meningoencephalocele | 1 | 1 |

**Summary Incidence Malformations and Variations**
(Total Number Fetuses/Litters Affected)
Ranked Uppermost to Nethermost

| | | |
|---|---|---|
| **NO. OF DATASETS** | **114** | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| **MALFORMATIONS** | **Number Fetuses** | **Litters** |
|---|---|---|
| **EXTERNAL** | | |
| Open Eyelid(s) | 1 | 1 |
| Proboscis-Like Nose | 1 | 1 |
| **VISCERAL** | | |
| Situs Inversus | 9 | 9 |
| Hydrocephaly | 7 | 7 |
| Retroesophageal Aortic Arch | 4 | 4 |
| Kidney(s) and/or Ureter(s) Absent | 3 | 3 |
| Aorta- Narrowed | 1 | 1 |
| Epididymis- Absent | 1 | 1 |
| Heart and/or Great Vessel Anomaly | 1 | 1 |
| Interrupted Aortic Arch | 1 | 1 |
| Lung(s)- Lobular Agenesis | 1 | 1 |
| Lung(s)- Lobular Dysgenesis | 1 | 1 |
| Testis- Absent | 1 | 1 |
| Thyroid Gland(s)- Absent | 1 | 1 |
| **SKELETAL** | | |
| Vertebral Anomaly with or without Associated Rib Anomaly | 17 | 14 |
| Sternoschisis | 9 | 8 |
| Rib Anomaly | 8 | 8 |
| Costal Cartilage Anomaly | 5 | 5 |
| Sternebra(e)- Malaligned (Severe) | 4 | 4 |
| Bent Limb Bone(s) | 2 | 2 |
| Rib(s)- Only 12 Pairs Present | 2 | 2 |

**Summary Incidence Malformations and Variations**
(Total Number Fetuses/Litters Affected)
Ranked Uppermost to Nethermost

| | | |
|---|---|---|
| **NO. OF DATASETS** | **114** | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| **MALFORMATIONS** | **Number Fetuses** | **Litters** |
|---|---|---|
| **SKELETAL** | | |
| Sternebra(e)- Fused | 2 | 2 |
| Vertebral Centra Anomaly | 2 | 2 |
| Rib(s)- Only 11 Pairs Present | 1 | 1 |
| Skull Anomaly | 1 | 1 |

**Summary Incidence Malformations and Variations**
(Total Number Fetuses/Litters Affected)
Ranked Uppermost to Nethermost

| | | |
|---|---|---|
| **NO. OF DATASETS** | **114** | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| | Number | |
|---|---|---|
| **VARIATIONS** | **Fetuses** | **Litters** |
| **EXTERNAL** | | |
| Twinning | 1 | 1 |
| **VISCERAL** | | |
| Renal Papilla(e) not Developed and/or Distended Ureter(s) | 48 | 32 |
| Major Blood Vessel Variation | 30 | 29 |
| Hemorrhagic Ring Around the Iris | 7 | 7 |
| Liver- Accessory Lobule(s) | 5 | 3 |
| Spleen- Accessory | 5 | 3 |
| Adrenal Gland(s)- Enlarged | 5 | 1 |
| Spleen- Small | 4 | 4 |
| Spleen- Pale | 3 | 3 |
| Hemorrhagic Iris | 2 | 2 |
| Kidney(s)- Small | 2 | 2 |
| Liver- Pale | 1 | 1 |
| Liver- Swollen | 1 | 1 |
| Testis- Small | 1 | 1 |
| **SKELETAL** | | |
| Cervical Centrum #1 Ossified | 8213 | 2070 |
| Sternebra(e) #5 and/or #6 Unossified | 2938 | 1026 |
| 14th Rudimentary Rib(s) | 2756 | 1155 |
| Hyoid Unossified | 574 | 364 |
| 7th Cervical Rib(s) | 329 | 249 |
| Reduced Ossification of the 13th Rib(s) | 238 | 162 |
| Sternebra(e)- Malaligned (Slight or Moderate) | 139 | 124 |

**Summary Incidence Malformations and Variations**
(Total Number Fetuses/Litters Affected)
Ranked Uppermost to Nethermost

| | | |
|---|---|---|
| **NO. OF DATASETS** | **114** | |
| **Total No. of Fetuses/Litters Examined Externally** | 41490 | 2722 |
| **Total No. of Fetuses/Litters Examined Viscerally** | 41296 | 2722 |
| **Total No. of Fetuses/Litters Examined Skeletally** | 41268 | 2721 |

| | Number | |
|---|---|---|
| **VARIATIONS** | **Fetuses** | **Litters** |
| **SKELETAL** | | |
| Sternebra(e) #1, #2, #3 and/or #4 Unossified | 78 | 71 |
| Bent Rib(s) | 71 | 57 |
| 27 Presacral Vertebrae | 57 | 44 |
| 25 Presacral Vertebrae | 46 | 28 |
| Reduced Ossification of the Vertebral Arches | 40 | 35 |
| Reduced Ossification of the Skull | 32 | 25 |
| 14th Full Rib(s) | 31 | 26 |
| Pubis Unossified | 26 | 20 |
| 7th Sternebra | 23 | 9 |
| Reduced Ossification of the Rib(s) | 16 | 13 |
| Entire Sternum Unossified | 5 | 5 |
| Vertebral Centra Unossified | 4 | 4 |
| Extra Site of Ossification Anterior to Sternebra #1 | 3 | 3 |
| Skull Bone(s)- Accessory | 3 | 3 |
| Reduced Ossification of the Limb Bone(s) | 2 | 2 |
| Unco-Ossified Vertebral Centra | 2 | 2 |
| Ischium Unossified | 2 | 1 |
| Extra Site of Ossification Anterior to Cervical Centrum #2 | 1 | 1 |
| Extra Site of Ossification Anterior to Rib #5 | 1 | 1 |
| Extra Site of Ossification Ventral to Cervical Centrum #2 | 1 | 1 |

# APPENDIX F

Study Protocol

Study Number: WIL-14069

**PROTOCOL AMENDMENT II**

Sponsor: LyondellBasell Industries

A. Title:

A Toxicity Study of Tert-Butyl Acetate (TBAc) in Mated Female Rats

B. Protocol Modifications:

1) **Cover Page:**

Reference to U.S. EPA OPPTS and OECD Guidelines is removed from the cover page.

2) **1 OBJECTIVE:**

Reference to U.S. EPA OPPTS and OECD Guidelines are removed from the second paragraph of this section.

3) **13 REPORTS:**

Reference to U.S. EPA OPPTS and OECD Guidelines are removed from the first paragraph of this section.

C. Reason for Protocol Modification:

1-3) Due to the non-guideline nature of this study, all references to U.S. EPA OPPTS and OECD Guidelines have been removed from the protocol.

Approved By:

**For: LyondellBasell Industries**

Willem D. Faber, PhD, DABT
Sponsor Representative

8/21/08
Date

**WIL Research Laboratories, LLC**

Pragati Sawhney Coder, PhD
Study Director

20 Aug. 2008.
Date

Mark D. Nemec, BS, DABT
Director, Developmental and
Reproductive Toxicology

20 Aug 2008
Date

Study Number: WIL-14069

**PROTOCOL AMENDMENT I**

Sponsor: LyondellBasell Industries

A. Title:

A Toxicity Study of Tert-Butyl Acetate (TBAc) in Mated Female Rats

B. Protocol Modifications:

1) **9.2** **Laparohysterectomy Data:**

The first sentence of this section is replaced with the following:

The group mean numbers of corpora lutea, implantation sites, viable fetuses and maternal gravid uterine weights will be subjected to a parametric one-way analysis of variance (ANOVA) (Snedecor, 1980) to determine intergroup difference. Mean fetal weights (separately by sex, and combined) will be subjected to a parametric one-way ANCOVA using the litter size (number of viable fetuses) as a covariate to determine intergroup difference. If the results of the ANOVA or ANCOVA are significant, Dunnett's Test (Dunnett, 1964) will be applied to the data to compare the treated groups to the control group.

C. Reason for Protocol Modification:

1) Per Sponsor request, fetal weight data will be evaluated using the litter size as the covariate.

Approved By:

**For: LyondellBasell Industries**

Willem D. Faber, PhD, DABT
Sponsor Representative

28 May 2008
Date

**WIL Research Laboratories, LLC**

Prigadi Sawhney Coder, PhD
Study Director

27 May 2008
Date

Mark D. Nemec, BS, DABT
Director, Developmental and
Reproductive Toxicology

27 May 2008
Date

# PROTOCOL

## A TOXICITY STUDY OF TERT-BUTYL ACETATE (TBAc) IN MATED FEMALE RATS

**(U.S. EPA OPPTS and OECD Guidelines)**

**WIL Study Number: WIL-14069**

**Submitted To:**

**LyondellBasell Industries**
One Houston Center, Suite 1600
1221 McKinnet Street
Houston, TX 77010

**WIL Research Laboratories, LLC**
1407 George Road
Ashland, OH 44805-8946

## 1 OBJECTIVE:

The objective of this study is to characterize maternal toxicity at the exposure levels tested and to determine a NOAEL (no-observed-adverse-effect level) for maternal toxicity.

This study is subject to the United States Environmental Protection Agency (EPA) Health Effects Test Guidelines OPPTS 870.3700, Prenatal Developmental Toxicity Study, August 1998 and the Organisation of Economic Co-operation and Development Guidelines (OECD) for Testing of Chemicals Guideline 414, Prenatal Developmental Toxicity Study, January 2001, and will be conducted in accordance with the EPA (40 CFR Part 792 and 40 CFR Part 160) and OECD Good Laboratory Practice Regulations.

## 2 PERSONNEL INVOLVED IN THE STUDY:

### 2.1 Sponsor Representative:

Willem D. Faber, PhD, DABT
Willem Faber Toxicology Consulting LLC
Tel: (585) 742-1568
Email: wfaber@msn.com

### 2.2 WIL Study Director:

Prägati Sawhney Coder, PhD
Staff Toxicologist, Developmental and
Reproductive Toxicology
Tel: (419) 289-8700
Fax: (419) 289-3650
Email: psawhney@wilresearch.com

### 2.3 WIL Deputy Director:

Eddie D Sloter, PhD
Senior Toxicologist, Developmental and
Reproductive Toxicology
Tel: (419) 289-8700
Fax: (419) 289-3650
Email: esloter@wilresearch.com

**2.4 WIL Departmental Responsibilities:**

Joseph F. Holson, PhD
President, Director

Mark D. Nemec, BS, DABT
Director, Developmental and
Reproductive Toxicology

Donald G. Stump, PhD, DABT
Associate Director, Developmental
and Reproductive Toxicology

George A. Parker, DVM, PhD, DACVP, DABT
Director, Pathology

Melissa J. Beck, PhD
Assistant Director, Neurosciences

Daniel W. Sved, PhD
Director, Metabolism and Analytical Chemistry

Walter R. Miller, BS, DVM
Clinical Veterinarian,
Head of Surgery and Experimental Medicine

Ronald E. Wilson, BS
Director, Informational Systems

Carol A. Kopp, BS, LAT
Manager, Gross Pathology and
Developmental Toxicology Laboratory

Heather L.Johnson, BS, RQAP-GLP
Manager, Quality Assurance

Bennett J. Varsho, MPH, DABT
Operations Manager, Developmental and
Reproductive Toxicology and the Formulations Laboratory

Robert A. Wally, BS, RAC
Manager, Reporting and Regulatory
Technical Services

## 3 STUDY SCHEDULE:

| | |
|---|---|
| Proposed Animal Receipt Date (Experimental Starting Date): | March 11, 2008 |
| Proposed Experimental Start Date: | March 31, 2008 |
| Proposed Experimental Termination/ Completion Date: | April 18, 2008 |
| Proposed Audited Report Date: | June 13, 2008 |

## 4 TEST ARTICLE DATA:

### 4.1 Test Article Shipment:

Test article and applicable documentation, including a Material Safety Data Sheet (MSDS) and a Certificate of Analysis, will be shipped under Sponsor's responsibility to:

Formulations Laboratory (WIL-14069; Prägati Sawhney Coder, PhD)
Attn. Larry Blessing
WIL Research Laboratories, LLC
1407 George Road
Ashland, Ohio 44805-8946

### 4.2 Identification:

*Tert*-butyl acetate (TBAc).

### 4.3 Batch Number:

OD61002001

### 4.4 Purity and Purity Analysis:

99.62% per Sponsor provided Certificate of Analysis.

Purity of the bulk material will also be established prior to the proposed experimental start date. Samples will be taken from the bulk material storage container, prior to use on study, for the assessment for test article purity using a gas chromatographic method with detection by flame ionization. The analysis will be conducted according to a previously validated method at WIL Research Laboratories, LLC (Kirkpatrick, 2005).

**4.5 Stability:**

The test article is considered to be stable under the storage conditions provided by the Sponsor.

**4.6 Physical Description:**

To be documented by WIL Research Laboratories, LLC

**4.7 Storage Conditions:**

Tightly capped, at room temperature, away from ignition sources.

**4.8 Reserve Samples:**

Reserve samples of the test article will be taken in accordance with WIL Standard Operating Procedures and stored in the Archives at WIL Research Laboratories, LLC indefinitely, unless otherwise specified.

**4.9 Personnel Safety Data:**

To be provided by the Sponsor. It is the responsibility of the Sponsor to notify the testing facility of any special handling requirements for the test article. A Material Safety Data Sheet (MSDS) should accompany the test article upon arrival at the laboratory.

**4.10 Test Article Disposition:**

With the exception of the reserve sample for each batch of test article, all neat test article remaining at study completion will be returned to the Sponsor (storage conditions, contact, address, fax number and telephone to be provided). Alternatively, the test article can be retained for subsequent studies.

## 5 TEST SYSTEM:

**5.1 Species:**

Rat

**5.2 Breed/Strain:**

Sprague-Dawley Crl:CD(SD)

**5.3 Source:**

Charles River Laboratories, Inc.
(Raleigh NC)

**5.4 Number on Study:**

110 females (maximum of 130 purchased). A sufficient number of sexually mature untreated resident males of the same strain and source will be used to induce pregnancies. Animals not assigned to the study will be transferred to the stock animal colony or will be euthanized by carbon dioxide inhalation and discarded.

This is the minimum number of animals to allow for meaningful extrapolation to the definitive prenatal developmental toxicity study.

**5.5 Body Weight Range:**

A minimum of 220g at the initiation of breeding.

**5.6 Approximate Age:**

80 to 120 days at the initiation of breeding.

**5.7 Identification System:**

Each rat will be uniquely identified by a Monel® metal ear tag displaying the animal number. Individual cage cards will be affixed to each cage and will display the animal number, group number, study number, dosage level, sex of the animal.

**5.8 Justification for Selection:**

This species and strain of rat has been recognized as appropriate for general toxicity studies. WIL Research Laboratories, LLC has historical data on the background incidence of fetal malformations and developmental variations in the Crl:CD(SD) rat. This animal model has been proven to be susceptible to the effects of maternal and developmental toxicants.

## 6 SPECIFIC MAINTENANCE SCHEDULE:

**6.1 Animal Housing:**

The rats will be individually housed (except during mating) in clean suspended wire-mesh cages in an environmentally controlled room during the study. The cages will be elevated above cage-board or other suitable material, which will

be changed at least three times each week. Nesting material will not be provided, as euthanasia is scheduled prior to anticipated parturition. The cages will be subjected to routine cleaning at a frequency consistent with maintaining good animal health and WIL Standard Operating Procedures. The facilities at WIL Research Laboratories, LLC are fully accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC International).

### 6.2 Environmental Conditions:

Controls will be set to maintain an average daily temperature of 71 ± 5°F (22 ± 3°C) and an average daily relative humidity of 50 ± 20%. Temperature and relative humidity will be monitored continuously. Data for these two parameters will be scheduled for automatic collection on an hourly basis. Fluorescent lighting controlled by light timers will provide illumination for a 12-hour light/dark photoperiod. The ventilation rate will be set at a minimum of 10 room air changes per hour, 100% fresh air.

### 6.3 Drinking Water:

Reverse osmosis-purified water will be available *ad libitum*. Filters servicing the automatic watering system are changed regularly according to WIL Standard Operating Procedures. The municipal water supplying the laboratory is analyzed according to WIL Standard Operating Procedures on a routine basis to ensure that contaminants are not present in concentrations that would be expected to affect the outcome of the study.

### 6.4 Basal Diet:

PMI Nutrition International, LLC Certified Rodent LabDiet® 5002 will be offered *ad libitum* during the study. Periodic analyses of the certified feed are performed by the manufacturer to ensure that heavy metals and pesticides are not present at concentrations that would be expected to affect the outcome of the study. Results of the analyses are provided to WIL Research Laboratories, LLC by the manufacturer. Feeders will be changed and sanitized once per week.

## 7 EXPERIMENTAL DESIGN:

### 7.1 Animal Receipt and Quarantine:

Each rat will be inspected by a qualified technician upon receipt. Rats judged to be in good health and suitable as test animals will be immediately placed in quarantine for a minimum of 10 days. All rats will be initially weighed and permanently identified with a metal ear tag. During the quarantine period, each

rat will be observed twice daily for changes in general appearance and behavior. Body weights may be recorded prior to the initiation of breeding. Prior to the start of the in-life phase, those rats judged to be suitable test subjects will be identified.

## 7.2 Breeding Procedure:

At the conclusion of the quarantine period, female rats judged to be suitable test subjects and meeting acceptable body weight requirements will be cohabitated with an untreated male (1:1) of the same source and strain. Detection of mating will be confirmed by evidence of a vaginal copulatory plug or by a vaginal lavage for sperm. After confirmation of mating, the female will be returned to an individual suspended wire-mesh cage (assigned to a group), and the day will be designated as day 0 of gestation.

## 7.3 Randomization:

Mated females will be assigned to groups using a WIL Toxicology Data Management System (WTDMS™) computer program which assigns animals based on stratification of gestation day 0 body weights into a block design to one control group and four test article groups of 22 rats each.

Any animal assigned to the study that is found dead, euthanized *in extremis* or exhibits abnormal clinical signs, reduced food consumption or body weight losses prior to the start of dosing may be replaced by an animal of appropriate gestation age when possible. Replacement animals will be arbitrarily assigned (not computer randomized) to the study based on comparable body weights (if possible) with respect to the animal that was replaced.

## 7.4 Route and Rationale of Test Article Administration:

The route of administration will be oral (gavage). Historically, this route has been used extensively for studies of this nature. Appropriately sized flexible, Teflon®-shafted, stainless steel ball-tipped dosing cannulae will be used for the oral administration by gavage.

## 7.5 Organization of Test Groups, Dosage Levels and Treatment Regimen:

### 7.5.1 Rationale for Dose Selection:

The dosage levels will be determined from results of previous studies and will be provided by the Sponsor Representative after consultation with the WIL Study Director. The dose levels were selected based on a previous study with the addition of the 1000 mg/kg/day dose level as a limit dose.

### 7.5.2 Organization of Test Groups:

The following table presents the study group arrangement.

| Group Number | Test Article | Dosage Level (mg/kg/day) | Dosage Concentration (mg/mL) | Dosage Volume (mL/kg) | Number of Females |
|---|---|---|---|---|---|
| 1 | Vehicle Control | 0 | 0 | 5 | 22 |
| 2 | TBAc | 400 | 80 | 5 | 22 |
| 3 | TBAc | 800 | 160 | 5 | 22 |
| 4 | TBAc | 1000 | 200 | 5 | 22 |
| 5 | TBAc | 1600 | 320 | 5 | 22 |

### 7.5.3 Vehicle Control Article:

Corn oil.

### 7.5.4 Treatment Regimen:

The test and control materials will be administered as a single daily dose during the period of major organogenesis, gestation days 6 through 19. All rats will be dosed at approximately the same time each day.

### 7.5.5 Adjustment of Doses:

Individual dosages will be calculated based on body weights recorded on gestation days 6, 9, 12 and 15 to provide the mg/kg/day dosage.

## 7.6 Preparation and Analysis of Test Article Formulations:

### 7.6.1 Method and Frequency of Preparation:

Based on the physical characteristics of the test article, appropriate methods will be used to ensure the best possible formulations of the test article in the vehicle. Test article formulations should be prepared in a vent hood, or a well ventilated room due to the strong odor associated with TBAc. The test material should be stored tightly capped, at room temperature, away from ignition sources. Test article formulations will be prepared daily in screw capped containers and will be used with 1-3 hours following preparation. The test article and vehicle formulations will be stirred continuously during dosing.

The Study Director or the Deputy Director or designee will visually inspect the formulations prior to the initiation of dosing. This visual inspection will be performed to ensure that the formulations are visibly homogeneous and acceptable for dosing. Any special procedures

required for formulation will be documented according to Good Laboratory Practices and presented in the final report of this study.

**7.6.2 Concentration Analysis:**

There will be no concentration analysis performed on this study. Test article formulations will be prepared daily in screw capped containers and will be used with 1-3 hours following preparation.

**7.6.3 Bulk Material Purity Analysis:**

Purity of the bulk material will also be established prior to the proposed experimental start date. Samples will be taken from the bulk material storage container, prior to use on study, for the assessment for test article purity using a gas chromatographic method with detection by flame ionization. The analysis will be conducted according to a previously ① established ~~validated~~ method at WIL Research Laboratories, LLC (Kirkpatrick, 2005).

**7.7 Maternal Observations During Gestation:**

**7.7.1 Appearance and Behavior:**

Each rat will be observed twice daily for moribundity and mortality, once in the morning and once in the afternoon from gestation day 0 until euthanasia. Detailed physical examinations will be recorded daily. Mortality and all signs of overt toxicity will be recorded on the day observed. The observations shall include, but are not limited to, evaluation for changes in appearance of skin and fur, eyes, mucous membranes, respiratory and circulatory system, autonomic and central nervous systems, somatomotor activity and behavior. All animals will also be observed on the day of necropsy and any findings will be recorded.

During the treatment period, each animal will be observed at approximately 15, 30, 60 and 120 minute(s) following each dose administration for findings that are potentially related to treatment or that might change before the next scheduled observation. Additional post-dosing observation periods may be necessary and will be documented in the study records.

**7.7.2 Body Weights and Food Consumption:**

Individual body weights and food consumption will be recorded on gestation days 0 and 6-20 (daily).

① wording correction. pgc 5/29/08.

Food intake will be reported as g/animal/day and g/kg/day for each corresponding body weight interval of gestation.

**7.7.3 Deaths and Animals Euthanized *in Extremis*:**

Females not surviving until the scheduled euthanasia will be necropsied and cause of death recorded, if possible. Rats not expected to survive to the next observation period (moribund) will be euthanized by carbon dioxide inhalation. The cranial, thoracic, abdominal and pelvic cavities will be opened and the organs examined. The number and location of implantation sites and viable fetuses will be recorded. Corpora lutea will also be counted and recorded. Gross lesions will be preserved in 10% neutral-buffered formalin for possible future histopathologic examination. Carcasses from adult animals will be discarded. Viable fetuses will be euthanized by an intrathoracic injection of sodium pentobarbital, if necessary, and discarded.

**7.7.4 Premature Deliveries:**

Females that deliver prematurely will be euthanized by carbon dioxide inhalation that day. The thoracic, abdominal and pelvic cavities will be opened and the organs examined. The number and location of former implantation sites and viable fetuses will be recorded. Corpora lutea will also be counted and recorded. Gross lesions will be preserved in 10% neutral-buffered formalin for possible future histopathologic examinations. Carcasses from adult animals will be discarded. Viable fetuses will be euthanized by hypothermia followed by an intrathoracic injection of sodium pentobarbital (if needed). Viable pups will be euthanized by an intraperitoneal injection of sodium pentobarbital. Recognizable fetuses or pups will be examined externally and preserved in 10% neural buffered formalin. All carcasses will be discarded.

**7.8 Laparohysterectomy and Macroscopic Examination:**

Laparohysterectomy and macroscopic examinations will be performed blind to treatment group. All surviving rats will be euthanized by carbon dioxide inhalation on gestation day 20. The thoracic, abdominal and pelvic cavities will be opened and the organs examined. The adrenals, liver, kidneys, thymus and brain from all animals euthanized at scheduled termination will be weighed. The uterus of each dam will be excised and its adnexa trimmed. The number of corpora lutea will be counted and recorded. Gravid uterine weights will be obtained and recorded. The uterus of each dam will be opened and the number of viable and nonviable fetuses, early and late resorptions and total number of implantation sites will be recorded, and the placentae will be examined. The individual uterine distribution will be documented using the following

procedure: all implantation sites, including early and late resorptions, will be numbered in consecutive fashion beginning with the left distal uterine horn, noting the position of the cervix and continuing from the proximal to the distal right uterine horn. Uteri which appear nongravid by macroscopic examination will be opened and placed in a 10% ammonium sulfide solution as described by Salewski (Salewski, 1964) for detection of early implantation loss. Maternal tissues will be preserved for future histopathologic examination in 10% neutral-buffered formalin only as deemed necessary by the gross findings. Representative sections of corresponding organs from a sufficient number of controls will be retained for comparison. The carcasses will be discarded.

Each viable fetus will be sexed, weighed, euthanized by an intrathoracic injection of sodium pentobarbital and discarded. Nonviable fetuses (the degree of autolysis is minimal or absent) will also be weighed and sexed. The crown-rump length of late resorptions (advanced degree of autolysis) will be measured and the degree of autolysis recorded. All carcasses will be discarded.

## 8 DURATION OF STUDY:

The quarantine, breeding and gestation phases of the study will require approximately two months.

## 9 STATISTICAL METHODS:

All analyses will be two-tailed for significance levels of 5% and 1%. All statistical tests will be performed using a computer with appropriate programming as referenced below. The litter, rather than the fetus, will be considered as the experimental unit. Comparative statistics will not be performed on data from toxicokinetic phase animals.

### 9.1 Maternal In-Life Data:

Continuous data variables [mean body weights (absolute and net), body weight gains (absolute and net) and food consumption of each interval] will be subjected to a parametric one-way analysis of variance (ANOVA) (Snedecor, 1980) to determine intergroup difference. If the results of the ANOVA are significant ($p<0.05$), Dunnett's test (1964) will be applied to the data.

### 9.2 Laparohysterectomy Data:

The group mean numbers of corpora lutea, implantation sites, viable fetuses, maternal gravid uterine weights and mean fetal weight (separately by sex, and combined) will be subjected to a parametric one-way analysis of variance (ANOVA) (Snedecor, 1980) and Dunnett's test (1964) as described above. The

mean litter proportions of prenatal data (% per litter of viable and nonviable fetuses, early and late resorptions, total resorptions, pre- and post-implantation loss and the fetal sex distribution) will be subjected to the Kruskal-Wallis nonparametric ANOVA test (1952) to determine intergroup difference. If the results of the ANOVA are significant ($p<0.05$), the Dunn's Test (1964) will be applied to the data.

### 9.3 Organ Weight Data:

Organ weights (absolute and relative to final brain weight) will be subjected to a parametric one-way analysis of variance (ANOVA) (Snedecor, 1980) to determine intergroup difference. If the results of the ANOVA are significant ($p<0.05$), Dunnett's test (1964) will be applied to the data.

## 10 QUALITY ASSURANCE:

The study will be audited by the WIL Quality Assurance Unit while in progress to assure compliance with the study protocol and protocol amendments, WIL Standard Operating Procedures and the appropriate provisions of the EPA TSCA and FIFRA Good Laboratory Practice Standards published in the Federal Register (40 CFR Part 792 and 40 CFR Part 160) and the OECD Principles of Good Laboratory Practice, November 26, 1997 [C(97)186/Final]. The raw data and draft report will be audited by the WIL Quality Assurance Unit prior to submission to the Sponsor to assure that the final report accurately describes the conduct and the findings of the study.

This study will be included on the WIL master list of regulated studies.

## 11 RECORDS TO BE MAINTAINED:

All original raw data records, as defined by WIL SOPs and the applicable GLPs, will be stored as described in Section 12 in the Archives at WIL Research Laboratories, LLC.

## 12 WORK PRODUCT:

The Sponsor will have title to all documentation records, raw data, specimens or other work product generated during the performance of the study. All remaining formulation samples will not be archived, but will be discarded upon issuance of the Final Report. All work product, including raw paper data, pertinent electronic storage media and specimens, will be retained at no charge for six months following issuance of the final report in the Archives at WIL Research Laboratories, LLC. Thereafter, WIL Research Laboratories, LLC will charge a monthly archiving fee for retention of all work product. All work product will be stored in compliance with regulatory requirements.

Any work product, including documents, specimens, and samples, that are required by this protocol, its amendments, or other written instructions of the Sponsor, to be shipped by WIL Research Laboratories, LLC to another location will be appropriately packaged and labeled as defined by WIL's SOPs and delivered to a common carrier for shipment. WIL Research Laboratories, LLC will not be responsible for shipment following delivery to the common carrier.

## 13 REPORTS:

The final report will contain a summary, test article data, methods and procedures, maternal and fetal data, WIL Historical Control Data, the analytical chemistry report and an interpretation and discussion of the study results. The final report will be comprehensive and shall define level(s) inducing toxic effects as well as no effect level(s) under the condition of this investigation. The report will contain all information necessary to conform with current EPA OPPTS and OECD specifications.

WIL Research Laboratories, LLC will provide one copy of an audited draft report, submitted in a timely manner upon completion of the study prior to issuance of the final report. One revision will be permitted as part of the cost of the study, from which the Sponsor's reasonable revisions and suggestions will be incorporated into the final report, as appropriate. Additional changes or revisions may be made, at extra cost. It is expected that the Sponsor will review the draft report and provide comments to WIL Research Laboratories, LLC within a two-month time frame following submission. WIL Research Laboratories, LLC will submit the final report within one month following receipt of comments. Two electronic copies (PDF) will be provided. Requests for additional copies of the final report may result in additional charges.

## 14 ANIMAL WELFARE ACT COMPLIANCE:

This study will comply with all applicable sections of the Final Rules of the Animal Welfare Act (AWA) regulations (9 CFR Parts 1, 2 and 3). The Sponsor should make particular note of the following:

- The Sponsor Representative's signature on this protocol documents for the Study Director the Sponsor's assurance that the study described in this protocol does not unnecessarily duplicate previous experiments.

- Whenever possible, procedures used in this study have been designed to avoid or minimize discomfort, distress or pain to animals. All methods are described in this study protocol or in written laboratory Standard Operating Procedures.

- Animals that experience severe or chronic pain or distress that cannot be relieved will be painlessly euthanized as deemed appropriate by the veterinary staff and

Study Director. The Sponsor will be advised by the Study Director of all circumstances which could lead to this action in as timely a manner as possible.

- Methods of euthanasia used during this study are in conformance with the above-referenced regulation.

- The Sponsor/Study Director has considered alternatives to procedures that may cause more than momentary or slight pain or distress to the animals and has provided a written narrative description (AWA covered species only) of the methods and sources used to determine that alternatives are not available.

## 15 PROTOCOL MODIFICATION:

Modification of the protocol may be accomplished during the course of this investigation. However, no changes will be made in the study design without the verbal or written permission of the Sponsor. In the event that the Sponsor verbally requests or approves a change in the protocol, such changes will be made by appropriate documentation in the form of a protocol amendment. All alterations of the protocol and reasons for the modification(s) will be signed by the Study Director and the Sponsor Representative.

## 16 REFERENCES:

Dunn, O.J. Multiple comparisons using rank sums. *Technometrics* **1964,** *6(3),* 241-252.

Dunnett, C.W. New tables for multiple comparisons with a control. *Biometrics* **1964,** *20,* pp. 482-491.

Kirkpatrick, D.T. A Combined 13-week Subchronic Inhalation Toxicity Study and Reproductive Toxicity Screening Test of Tertiary-Butyl Acetate in Rats. Study Number WIL-14060, WIL Research Laboratories, LLC, Ashland OH. ~~2005.~~ 2006 ①

Kruskal, W.H.; Wallis, W.A. Use of ranks in one-criterion variance analysis. *Journal of the American Statistical Association* **1952,** *47,* 583-621.

Salewski, E. Färbemethode zum makroskopischen Nachweis von Implantationsstellen am Uterus der Ratte. [Staining method for a macroscopic test for implantation sites in the uterus of the rat]. *Naunyn - Schmiedebergs Archiv für Experimentelle Pathologie und Pharmakologie* **1964,** *247,* 367.

① Typographical error correction. PSC 5/29/08

Snedecor, G.W.; Cochran, W.G. One Way Classifications; Analysis of Variance. In *Statistical Methods,* 7th ed.; The Iowa State University Press: Ames, IA, **1980;** pp. 215-237.

**17 PROTOCOL APPROVAL:**

Sponsor approval received via Email on 3/6/08.
Date

**For: LyondellBasell Industries**

Willem D. Faber, PhD, DABT
Sponsor Representative

March 14, 2008
Date

**WIL Research Laboratories, LLC**

Pragati Sawhney Coder, PhD
Study Director

6 March, 2008
Date

Mark D. Nemec, BS, DABT
Director, Developmental and
Reproductive Toxicology

6 Mar 2008
Date