Bayer

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8EHQ-0696-13311/s

Bayer Corporation
100 Bayer Road
Pittsburgh, PA 15205-9741
Phone: 412 777-2000

8EHQ-95-13311
89960000174/s
FLWP

May 31, 1996

Document Processing Center (TS-790)
ATTN: Section 8(e) Coordinator
Office of Toxic Substances
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

Confidential Information Has Been Sanitized

Dear Sir:

On January 13, 1995 (8EHQ-95-13311) Bayer Corporation (previously Miles Inc.) submitted an acute oral toxicity study to the Section 8(e) Coordinator on

substituted heterocycle an experimental herbicide of interest to us. Clinical signs occurred in non-morbund animals for durations exceeding two days.

As a follow-up we are now submitting two reports of further studies (1) a draft of results of a battery of pharmacology tests with mice and (2) a final report of an Acute Neurobehavioral Screening Study with Rats. The no effect level in the mice studies was concluded to be 1 mg/kg while the rat study showed the no effect level to be less than 20 mg/kg. Follow up studies will be performed to establish an overall no effect level for rats and the results will be provided in a supplemental submission.

Presently this experimental herbicide has very limited distribution and exposure potential, however we will provide this information in our regular worker hazard communications literature and training programs.

[redacted]

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The information submitted in this study is considered "Confidential Business Information". A sanitized as well as a confidential version are being submitted.

Please contact me if you have any questions.

Sincerely,

Donald W Lamb

Donald W. Lamb, Ph.D
Vice President
Product Safety & Regulatory Affairs
412-777-7431

96-2-6.doc:vmk
Attachment
Certified Mail: P 921 654 972

Confidential Information Has Been Sanitized

START OF TEST: 05 Mar 1996

END OF TEST: 08 Mar 1996

Draft

SUMMARY: [redacted]

The aim of this study was to assess the effects of a single administration o[redacted] a herbicide, on the central nervous system of mice (CNS safety pharmacology). [redacted] was administered orally to mice at doses of 1, 20, and 100 mg/kg body weight in six different models. Control animals received only the vehicle (0.5% w/v tylose plus 0.4% w/v TWEEN 80).

A single oral administration o[redacted] had no effect on the duration of the hexobarbital-induced anaesthesia.

In the hot-plate test, the reaction times of the high-dose animals were increased compared to the control group. This finding may be due to the test article induced sedation, althought substance-related effects on the nociception cannot be excluded.

The traction ability and the balance ability were slightly reduced in animals given 100 mg/kg body weight.

After the maximal electroshock test, some animals died. Although, the death was only noted in drug-treated groups and the rate increased with the dose, this finding is considered to be due to the individual electrical seizure threshold of mice.

In the pentylenetetrazole test, animals given 100 mg[redacted]kg body weight showed a statistically significantly increased threshold dose compared to the control group. Although the increase in threshold was less than 20%, this observation might give evidence of an anticonvulsive potential o[redacted]

At about 20 minutes after treatment animals given 100 mg[redacted]/kg showed sedation and partial ptosis.

In conclusion, a single oral administration o[redacted]t doses of 1 mg/kg and 20 mg/kg had no effects on the central nervous system of mice. 100 mg/kg body weight induced mild neuromuscular and sensorimotor disturbances, sedation and ptosis. There is also some evidence of an anticonvulsive potential.

INVESTIGATOR LOCATION: KOELN

START OF TEST: 12 Mar 1996

END OF TEST: 13 Mar 1996

SUMMARY: [redacted]

The aim of this study was to assess the effects of a single administration o[redacted] a herbicide, on the behavioural and physiological state of rats (safety pharmacology). [redacted] was administered orally to rats at doses of 1, 20, and 100 mg/kg body weight. Control animals received only the vehicle (0.5% tylose plus 0.4% TWEEN 80).

1 mg/kg body weight had no effect on the behaviour and physiological state in rats. After treatment with 20 mg[redacted]/kg transient symptoms (ptosis, salivation, and sedation) were observed in some animals. All high-dose animals showed these findings. In addition, piloerection and straub phenomenon were noted in some animals given 100 mg/kg. The symptoms were observed after 30 minutes after treatment and lasted up to 90 minutes (20 mg/kg) or 135 minutes (100 mg/kg), respectively.

In conclusion, a single oral administration o[redacted] had a transient, dose-dependent effect on the central nervous system of rats. The no-effect level is 1 mg/kg.

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FILE
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Study Title

An Acute Oral Neurotoxicity Screening Study
with Technical Grade [redacted] in Fischer 344 Rats

Data Requirement

US-EPA-FIFRA, Guideline 81-8(SS)

Author

L. P. Sheets

Author, Pathology Report

B. F. Hamilton

Study Completion Date

May 21, 1996

Test Facility

Bayer Corporation
Agriculture Division
Toxicology
17745 South Metcalf
Stilwell, Kansas 66085-9104

Study Number

94-412-BF

STATEMENT OF DATA CONFIDENTIALITY

No claim of confidentiality is made for any information contained in this study on the basis of its falling within the scope of FIFRA Section 10(d) (1)(A), (B), or (C).

Company: Bayer Corporation

Company Agent: J. H. Thyssen

Date: 5-21-96

Vice President, Toxicology

Signature

GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

This study was conducted in compliance with the FIFRA Good Laboratory Practice Standards of 40 CFR Part 160 and the OECD Principles of Good Laboratory Practice, C(81)30 (Final) Annex 2 (Paris, May 1992).

SUBMITTER

Bayer Corporation

J. H. Thyssen: _____
Vice President, Toxicology

Date: 5-21-96

SPONSOR

Agriculture Division

J. H. Thyssen: _____
Vice President, Toxicology

Date: 5-21-96

STUDY DIRECTOR

L. P. Sheets: _____

Date: 5/21/96

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SPONSOR

Bayer Corporation
Agriculture Division
Box 4913, Hawthorn Road
Kansas City, Missouri 64120-0013

TEST FACILITY

Bayer Corporation
Agriculture Division
Toxicology
17745 South Metcalf
Stilwell, Kansas 66085-9104

DATES

Experimental Start Date:	September 26, 1994
Terminal Sacrifice Date:	October 14, 1994

PERSONNEL AND RESPONSIBILITIES

Toxicology and Sponsor Representative:	J. H. Thyssen	J. H. Thyssen
Toxicology Laboratory:	G. K. Sangha	for G. K. Sangha J. H. Thyssen
Study Direction:	L. P. Sheets	Larry P. Sheets
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Pathology Services:	B. P. Stuart	Barry P. Stuart
Micropathology:	B. F. Hamilton	Bradley F. Hamilton
Gross Necropsy:	H. E. Hoss	Herbert E. Hoss
Animal Care:	R. E. Mueller	Robert E. Mueller
Analytical Chemistry:	K. D. Moore	Karen D. Moore
Quality Assurance:	C. A. Halder	Chris A. Halder

QUALITY ASSURANCE STATEMENT

Audit reports have been submitted to the study director and laboratory management documenting the status of compliance with applicable departmental standard operating procedures, the study protocol, and Good Laboratory Practice regulations.

The Quality Assurance Unit monitors at least one phase of each study, and at least annually, all phases of this study type including the functions of all support areas for this study type. The following are the audit dates, phases inspected, auditors, and report dates of Quality Assurance inspections of this study and, if applicable, of this study type as well as relevant support areas:

AUDITS			REPORT TO STUDY DIRECTOR/ MANAGEMENT
Date	Phases	Auditor	
	Phase of Study		
09/27/94	Functional Observational Battery and Motor Activity Testing	D. Wallace	10/18/94
	Phase of Study Type		
02/09/94	Randomization, Cage and Animal Identification, Test Animal Inventory, Technician Training Records	J. Ranjbar	02/10/94
02/22-23 /94	Fasting, Body Weights, and Dosing	J. Ranjbar	03/14/94
03/03-04 /94	Functional Observational Battery, Motor Activity Testing, Mortality Check Clinical Observations, and Training Records	J. Ranjbar	03/15/94
03/11/94	Anesthesia, Perfusion, and Tissue Collection, Euthanasia and Gross Necropsy	J. Ranjbar	03/16/94
04/07/94, 04/11/94	Dose Preparation and Test Substance Inventory, Analytical Sample Submission Body Weights, Dosing	J. Ranjbar	04/11/94
03/12- 04/17/96	Final Report Review	C.A. Cox D. Wallace	04/17/96

QUALITY ASSURANCE STATEMENT (Continued)

Date	AUDITS Phases	Auditor	REPORT TO STUDY DIRECTOR/ MANAGEMENT
	Analytical Chemistry Support Area Functions		
05/11/94	Test Substance Analysis	S. Bailey	05/12/94
	Animal Care Support Area Functions		
01/25/94	Animal Receiving, Shipment Examination, Randomization, Animal Inventory, Animal Identification (Cage Cards), Quarantine	C. A. Cox	01/25/94
01/25/94	AM/PM Observations	C. A. Cox	01/25/94
01/25/94	Cleaning of Racks, Cages, Trays, and Feeders	C. A. Cox	01/25/94
01/26/94	Filter Inspection/Change	C. A. Cox	01/31/94
01/17/94	Room Disinfection	C. A. Cox	01/18/94
01/28/94	Bedding Change, Room Maintenance, Rack Change	C. A. Cox	01/31/94
01/28/94	Feeding	C. A. Cox	01/31/94
01/31/94	Animal Release for Study Use	C.A. Cox	01/31/94
02/02/94	Rack Preparation	C. A. Cox	02/02/94
	Histology Support Area Functions		
02/14/94	Processing and Embedding (Epoxy)	D. Wallace	03/08/94
02/22-23 /94	Staining: Sevier-Munger, Luxol Fast Blue/Cresyl Violet	D. Wallace	03/08/94
04/10,12, 18/94	Trimming (GMA/Epoxy)	D. Wallace	04/26/94
04/05/94	Sectioning and Staining (Toluidine Blue)	D. Wallace	05/03/94

QUALITY ASSURANCE STATEMENT (Continued)

Date	AUDITS Phases	Auditor	REPORT TO STUDY DIRECTOR/ MANAGEMENT
	Histology Support Area Functions		
04/05,07 /94	Processing and Embedding (GMA)	D. Wallace	05/03/94
05/27/94	Slide Staining (Hematoxylin and Eosin), Coverslipping, Tissue Sectioning	D. Wallace	05/27/94
06/24/94	Histopathology Slide Reading	D. Wallace	06/27/94
07/08/94	Trimming (Paraffin)	D. Wallace	07/08/94
07/19/94	Computer Entry of Pathologist's Work-sheets	D. Wallace	07/20/94
07/20/94	Sectioning (GMA)	D. Wallace	07/20/94
07/20-21 /94	Tissue Processing and Embedding	D. Wallace	07/22/94
07/21/94	Preparation of Universal Fixative and Sodium Nitrite	D. Wallace	07/22/94
11/11/94	Staining (Modified Lee's Methylene Blue Basic Fuchsin)	D. Wallace	11/11/94
12/16/94	Slide Labeling, Filing and Archiving of Slides, Blocks and Tissue)	D. Wallace	12/16/94
08/04/95	Sectioning & Staining (Epoxy)	D. Wallace	08/04/95

In compliance with the Good Laboratory Practice regulations, this final report for study number 94-412-BF has been reviewed by the Quality Assurance Unit. The results presented in this report accurately describe the methods and standard operating procedures and reflect the raw data collected during the conduct of the study.

C. A. Halder, Quality Assurance

May 16, 1996
Date

ABSTRACT

Technical grade [redacted] was administered by gavage in a single dose to fasted Fischer 344 rats (12/sex/dose level), using nominal doses of 0 (vehicle), 20, 150 and 600 mg/kg for males and 0, 20, 100 and 400 mg/kg for females. The test substance was suspended in 0.5% methylcellulose-0.4% Tween 80 in deionized water and administered at a dosing volume of 10 ml/kg. The following observations and measurements were included in the study: clinical observations, mortality, body weight, automated measurements of activity (figure-eight maze), a functional observational battery, brain weight, and a gross necropsy. Skeletal muscle, peripheral nerves, eyes (with optic nerves), and tissues from the central nervous system were examined microscopically for lesions.

Based on analytical results, the actual doses o[redacted] were 0, 20, 153 and 578 mg/kg for males and 0, 20, 98 and 410 mg/kg for females. To avoid confusion, dose concentrations are referred to throughout this report on the basis of the nominal concentration.

Compound-related deaths occurred at the high dose of 600 mg/kg for males and 400 mg/kg for females. Five high-dose males and one high-dose female died on the day of exposure or within one day following treatment. There were no other deaths prior to terminal sacrifice, 15 days after treatment.

Clinical signs associated with treatment were evident in the males at all three dose levels and in females at the mid-(100 mg/kg) and high-(400 mg/kg) dose levels. Compound-related signs in males that received 20 mg/kg consisted of red nasal stain and ptosis of the eyelids. Compound-related signs at the highest sub-lethal dose of 150 mg/kg for males and 100 mg/kg for females consisted of oral and nasal (red) stains and these females also had urine staining. Compound-related signs in both sexes were generally apparent on the day of treatment (day 0) and resolved at sub-lethal dose levels within days 0-9 following treatment. Based on clinical signs, the No-Observed-Effect Level (NOEL) is <20 mg/kg for males and 20 mg/kg for females.

Body weight was not affected by treatment in surviving males or surviving females.

For the functional observational battery (FOB), compound-related effects were evident in both sexes at the time of peak neurobehavioral effects on day 0 at all three dose levels. These effects were generally consistent with clinical signs. Differences (e.g., a higher incidence of ptosis by FOB) are largely ascribed to these two test procedures being administered at different times following treatment. All signs of toxicity resolved at sub-lethal doses in both sexes by the next observation period on day 7. Based on these results, the NOEL is <20 mg/kg for both sexes.

Compound-related decreases in motor and locomotor activity in the figure-eight maze occurred on day 0 in males that received doses of 150 or 600 mg/kg and females that received 100 or 400 mg/kg. Complete recovery occurred in surviving males and females by the next test occasion, seven days following treatment. Habituation was not affected by treatment with [redacted]. Based on these measures of activity, the NOEL is 20 mg/kg for both sexes.

The only treatment-related gross lesions at terminal sacrifice consisted of a tail lesion from self-induced mutilation that persisted to term in one of the surviving high-dose females. Treatment-related gross findings in the males and one female that died prior to study termination are consistent with in-life findings.

Brain weight was not affected by treatment in surviving males or females at any dose level.

Treatment-related microscopic lesions were evident in brain tissue from one male that survived the high dose of 600 mg/kg and one female treated with the 400 mg/kg dose. This consisted of neuronal necrosis (grade 2, slight) in a midline region of the thalamus. These two rats were the most severely intoxicated animals to survive this dose. There were no compound-related microscopic lesions in brain tissue from males or females at the next lower dose level. Based on these results, the NOEL for microscopic lesions is 150 mg/kg for males and 100 mg/kg for females.

In conclusion, the present study established a dose-related increase in evidence of toxicity following the administration of a single oral dose of [redacted]. All evidence of exposure to a sub-lethal dose resolved in males and females within nine days following treatment. Micropathologic findings in the thalamus were present in one male and one female that survived a lethal dose of 600 mg/kg and 400 mg/kg, respectively, and not at the next lower doses. The NOEL for neuropathology is 150 mg/kg for males and 100 mg/kg for females; the highest doses that did not cause mortality. The overall NOEL for [redacted] following acute oral exposure is <20 mg/kg for males and females, based on transient clinical signs.

Follow-up investigative studies are being performed to establish an overall NOEL and to further clarify the nature of neuropathology following acute oral exposure in rats. The results of these investigations will be reported separately, in a supplemental submission.

MATERIALS

I. The test substance was supplied by the sponsor with the following information:

Test Substance[redacted]

Identification:	Technical Grad[redacted]
Physical Appearance:	Beige powder
Batch No.:	17004/93
Tox No.:	3734-01
Percent Active Ingredient (Date of Analysis):	98.2 (June 1994) 98.2 (December 1994)

Active Ingredient:

Chemical Name: [redacted]

Structural Formula: [redacted]

CAS No.: [redacted]

II. The test substance was stored and archived at freezer conditions.

PURPOSE

The purpose of this study was to provide information regarding the potential fo[redacted] to produce neurotoxic effects following an acute exposure [redacted] is a compound that is being developed for use as a herbicide.

TEST GUIDELINE

This study was conducted in accordance with [redacted]-EPA-FIFRA, Pesticide Assessment Guidelines, Subdivision F, Hazard Evaluation: Human and Domestic Animals, Guideline Addendum 10, Neurotoxicity; NTIS, 1991, EPA 540/09-91-123, PB 91-154617.

METHODS

Animal Information

Source, Number and Age

Male and female (nulliparous and nonpregnant) Fischer 344 CDF(F-344)/BR rats from SASCO, Inc., Madison, WI were used in this study. The rat was selected due to its general acceptance and suitability as a rodent species for toxicological testing of this type as well as the availability of a historical database on the Fischer 344 strain. The study design required a total of 96 rats (48 males and 48 females) which were nine weeks of age when the treatment was administered. An additional six males and six females were tested (FOB and motor activity) during the pretreatment week and reserved for use in case they were needed to replace animals that were assigned to the study.

Examination and Acclimation

Upon receipt, animals were examined and sacrificed if general appearance and/or behavior were considered abnormal. Those animals considered acceptable were then placed into individual cages and acclimated to their ambient laboratory conditions (temperature 18.3-25.6°C, relative humidity 40-70%, 12-hr light/dark cycle) for at least six days prior to placement on the study. Purina Mills Rodent Lab Chow 5001-4 in "etts" form and tap water were provided for *ad libitum* consumption during the acclimation period and throughout the study, except during the overnight fast prior to dosing and during neurobehavioral assessment when only water was available. For the holding period, animal care personnel observed the animals at least once daily for moribundity and mortality. Upon completion of the acclimation period, a veterinarian reviewed the status of the animals prior to their release for study.

Care and Housing

While on study, rats were individually housed in suspended stainless steel wire-mesh cages. The room, cages and cage racks were thoroughly cleaned and disinfected before arrival of the animals. Deotized Animal Cage Board was used in the bedding trays and changed at least three times weekly. The cages and racks were replaced at least once every three weeks with clean, disinfected cages and racks. The room was disinfected at least once every three weeks.

Identification

Each rat was identified by cage card and tailmark with a number that did not reveal the animal's treatment group. In addition, animals were assigned an identification number that specified the rat's sex, treatment group, cage number and identified it with the study. The scheme for identification of animals in the main study groups is shown in Appendix I, page 95.

Randomization

Randomization procedures utilized software from INSTEM Computer Systems (1). Following acclimation, the animals were weighed and those with body weights that were more or less than 20% of the mean weight for each sex were rejected. The remaining animals were randomly assigned to the control or treated group in order that, for each sex, groups had comparable body weights when treatment was initiated. This was done to facilitate comparisons following treatment.

Analytical Chemistry

Analysis of Feed and Water

A sample from each lot of feed was analyzed by Purina Mills Laboratories Inc., St. Louis, MO. Contaminant concentrations outlined in the *Certification Profile* for Purina Mills Certified Lab Chows (2) were used as a general standard by which to gauge acceptable levels of contaminants in the feed. Tap water (Kansas City Missouri Municipal Water) was analyzed for contaminants by Pace Inc., Lenexa, KS.

Test Substance Analysis

The identity o[redacted] was confirmed by nuclear magnetic resonance and mass spectroscopy. The concentration of active ingredient in the test substance was measured within six months of administration of the dose and again after the study was completed to verify stability at freezer conditions.

Analysis of Test Substance in the Vehicle

The concentration o[redacted] in the vehicle was measured using liquid chromatographic (LC) analysis (3). The stability [redacted] in the vehicle, following room temperature exposure, was established using samples at nominal concentrations (1.0 , 5.0 and 120 mg/ml) that bracketed the range of test concentrations (nominal 2 mg/ml to 60 mg/ml) used in the present study. Homogeneity was also verified by analysis of three samples each of the nominal 1.0, 5.0 and 120 mg/ml dosing suspensions. Homogeneity was accepted if the coefficient of variation (C.V.) was $\leq$6%. Each dosing suspension was analyzed to measure the concentration of MKH 3586.

Dose Selection

Doses for the current study were selected on the basis of the results from an acute oral dose range-finding study, using analytically-confirmed doses of 20, 50, 102, 214, 417 and 857 mg/kg for both sexes (five/sex/dose level). For both sexes, a dose of 20 mg/kg was a NOEL for clinical signs and 50 mg/kg produced minimal effects. The 100 mg/kg dose produced partially-closed eyelids and stains (oral and nasal) in both sexes, while higher doses produced progressively more evidence of toxicity (e.g., decreased activity). The highest dose of 857 mg/kg produced mortality in females (60%) and tremors and opisthotonus (tonic backward extension of head) in both sexes. Clinical signs were generally apparent for both sexes within 1-4 hours following treatment, recovering in all but the most severely affected animals by the following day. For some animals, staining persisted until sacrifice, seven days following treatment. Signs of toxicity were generally more severe in females than males at a given dose level, indicating that they were more sensitive to the treatment. The time of peak neurobehavioral effects (within the first eight hours following treatment) is estimated to be approximately three or four hours following treatment.

Based on these results, doses selected for the acute neurotoxicity study were 0, 20, 150 and 600 mg/kg for males and 0, 20, 100 and 400 mg/kg for females. The highest dose was selected to produce clear evidence of toxicity without mortality. The middle dose was selected to produce somewhat less toxicity and the low dose was chosen to produce no evidence of exposure. Based on the estimated time of peak neurobehavioral effects, the FOB began approximately three hours (minimum) following administration of the dose, and the measurement of activity concluded at approximately six hours following treatment.

Experimental Design

Route, Dose and Number of Animals

The oral route of exposure was employed in accordance with the test guideline. Four dose groups (12 rats/sex/dose level) were administered the test substance at nominal doses of 0 (vehicle), 20, 150 or 600 mg/kg for males and 0, 20, 100 or 400 mg/kg for females. The test substance was administered by gavage as a single dose in 0.5% methylcellulose-0.4% Tween 80 in deionized water, at a dosing volume of 10 ml/kg. All 12 animals/sex/dose level were used for neurobehavioral testing. Surviving animals were sacrificed 15 days after exposure, the day following the final FOB and motor activity tests.

Clinical Signs and Body Weights

Cage-side observations were conducted at least once daily for mortality or clinical signs of moribundity. Detailed physical examinations for clinical signs of toxicity were carried out and recorded once each day. Animals were weighed weekly, as a component of the FOB.

Functional Observational Battery (FOB) and Motor Activity Testing

A detailed description of the FOB is presented in Appendix III (page 100). This FOB closely follows the battery of tests described by Moser (4), with each animal tested individually. Scoring criteria and explicitly-defined scales were used to rank the severity of observations that do not readily lend themselves to quantitation. The procedures used to determine landing foot splay and grip strength are based on established methods (5,6). The technicians who conducted the FOB were "blind" with respect to the animal's group assignment. Observations for all animals were performed by the same observer throughout the study, with a second person performing the measurements (e.g., grip strength and foot splay). Inter-observer reliability has been established in order to allow a second person to perform either the observations or measurements, ensuring the consistency of the results of each technician. Studies have been conducted with acrylamide, carbaryl and untreated rats to establish the sensitivity, reliability, and validity of these test procedures, the adequacy of training of technical personnel and to serve as a historical control (7).

Motor activity was measured by testing animals individually for 90 minutes in one of eight figure-eight mazes. The figure-eight maze was selected as an established and widely-used

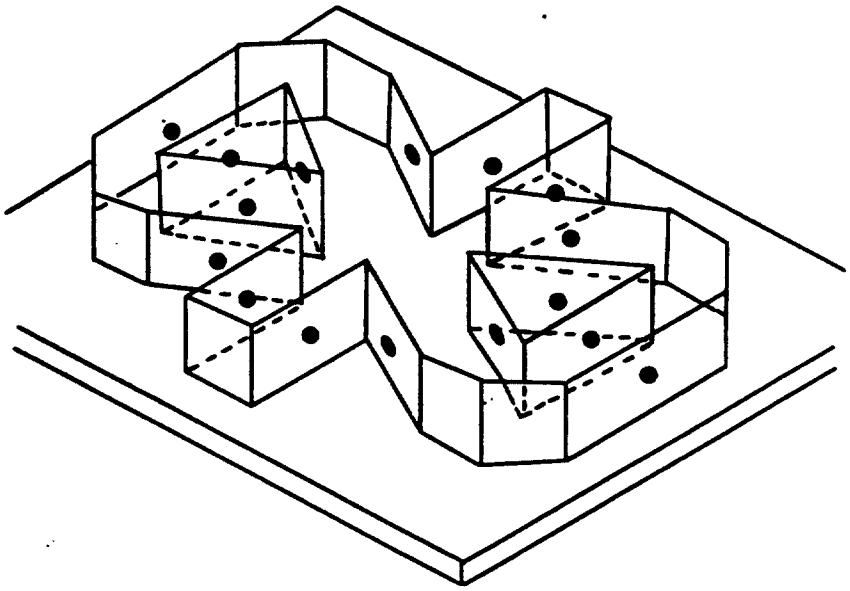

Figure-eight maze. The location of each pair of eight photocells that detect activity is indicated by filled circles.

automated activity-measuring device that can be used to detect both increases and decreases in activity (8). Each maze consists of a series of inter-connected alleys (approximately 10 x 10 cm in cross-section) converging on a central arena and covered by transparent acrylic plastic (9). Each maze has eight infrared emitter/ detector pairs (three in each of the figure-eight alleys and one in each of the blind alleys) to measure activity; each time a beam is interrupted, an activity count is registered. The floor of each maze rested above absorbent paper which was changed at the end of each day. A Columbus Instruments (Columbus, OH) Universal Maze Monitoring System and a personal computer were used for automated data collection. Broad-spectrum background noise (approximately 70dB(A)) was provided throughout the test to minimize acoustical variations during testing. A white noise generator (Model S81-02, Coulbourn Instruments) was used to produce the background noise which was amplified by an audio-mixer amplifier (Model S82-24, Coulbourn Instruments) and presented through four speakers (Realistic Minimus-7, Radio Shack) that were positioned around the test area. The uniformity of light intensity (100±70 lux) over each of the mazes was verified daily using a digital lux meter (model LX-101, Cole Parmer Instrument Company). Studies with untreated animals and with rats treated with reference substances that increase (triadimefon) and decrease (chlorpromazine) motor activity have established the sensitivity, reliability and validity of these test procedures (7,10).

Motor and locomotor activity were examined for the 90-minute session and during each ten-minute interval. Motor activity was measured as the number of beam interruptions that occurred during the test session. Locomotor activity was measured by eliminating consecutive counts for a given beam. Thus, for locomotor activity, only one interruption of a given beam was counted until the rat relocated in the maze and interrupted one of the other beams. Habituation was evaluated as a decrement in activity during the test session.

All animals that were assigned to the study were tested using the FOB and motor activity on four occasions - one week prior to treatment, approximately 3 hours (minimum) after administration of the dose, and again seven and 14 days following treatment. On the day of FOB and motor activity testing, the appropriate animals were placed in the sequence that was established for testing on that day. The dose group identification was concealed at that time to ensure that testing would be conducted without knowledge of the group assignment. Animals were then transferred to the room where the testing took place and were allowed to acclimate with minimal disturbance for at least 30 minutes prior to testing. The test room was a standard animal room that was maintained on the same light:dark cycle and settings for temperature and relative humidity as the animal room, with tests conducted during the light phase. Sets of eight animals (maximum) were evaluated individually using the FOB and then, approximately 30 minutes after the last animal in the set had finished being tested in the FOB, all eight rats were placed individually into the mazes to measure activity.

The order of testing and assignment of animals to mazes were done in a semi-random (11) order such that groups were balanced across test times and test devices, and no animal would be tested more than once in the same maze. One animal (#1194, BF2109) was tested twice in the same maze (pretreatment and day 14) because it was used to replace animal #1184, which was mis-dosed. It is not expected that this affected the outcome of the study. Each week, testing was staggered over two days for each sex to accommodate the schedule for behavioral testing. Males and females were tested on separate days, with the open field and mazes cleaned during the ensuing interval to reduce the residual scent from the other sex.

Gross Pathology

All study animals were subjected to a complete gross necropsy. The necropsy involved an examination of all organs, body cavities, cut surfaces, external orifices and surfaces. Based on the SAS-generated randomization for FOB and motor activity testing on day 14, the first six males and six females at each dose level were selected for perfusion and collection of tissues.[1] Each of these animals was deeply anesthetized using an intraperitoneal dose (50 mg/kg) of pentobarbital and then perfused via the left ventricle with a sodium nitrite (in phosphate buffer) flush followed by *in situ* fixation using Universal fixative (4% (w/v) glutaraldehyde and 4% (w/v) EM-grade formaldehyde) in phosphate buffer. The entire brain and spinal cord, both eyes (with optic nerves) and selected (bilateral) peripheral nerves (sciatic, tibial and sural), the gasserian ganglion, gastrocnemius muscle, and physical identifier were dissected from each animal and post-fixed in 10% buffered formalin. The brain was weighed upon removal from the skull, prior to placement into formalin, and the brain:body weight ratio was calculated. Other animals that survived to term were sacrificed by CO_2 asphyxiation without perfusion or collection of tissues.

Histology

The following tissues from control and high-dose animals, and any gross lesions collected at necropsy, were further processed for microscopic examination (Appendix X). Eight coronal sections of the brain (Figure 1) and sections from four levels of the spinal cord (cervical, thoracic, lumbar and cauda equina) were embedded in paraffin and examined utilizing Hematoxylin and Eosin (H&E), Luxol Fast Blue/Cresyl Violet and Sevier-Munger stains. Dorsal root ganglia (including dorsal and ventral root fibers) from the cervical and lumbar swellings, gasserian ganglion, eyes, optic nerves and gastrocnemius muscle were embedded in glycol methacrylate (GMA). GMA-embedded tissues were sectioned at 2-3 µm and stained using a modified Lee's stain. Peripheral nerve tissues (sciatic, tibial and sural nerves) were embedded in epoxy resin, cut in cross-section at approximately 1 µm and stained with Toluidine Blue. The sciatic nerve was also sectioned longitudinally at approximately 1 µm and stained with Toluidine Blue. The brain tissues from mid-dose males and females were also processed and examined since lesions were present in brain tissue from some high-dose animals.

[1] ***Animal #2006 was inadvertently selected for perfusion in place of animal #2005, and animal #2005 under went gross necropsy. The substitution of one mid-dose male for another should not have affected the outcome of the study.***

Micropathology

The tissues from the high-dose males (600 mg/kg) and females (400 mg/kg) were examined relative to those from the control groups. Since treatment-related lesions were evident in both sexes at the high dose, the brain tissue from mid-dose animals were also examined. Brain level 5 (see Pathology Report) from control, mid-, and high-dose animals were then shuffled and re-examined without knowledge of the dose groups to verify the presence of compound-related lesions at the high-dose and the absence of such lesions at the mid-dose. Previous studies with trimethyltin and acrylamide have established the sensitivity and reliability of these procedures for detecting lesions in peripheral nerves and the central nervous system (7).

Statistical Analysis

Statistical evaluations were performed using software from either INSTEM Computer Systems (1) or SAS (11). With the exception of Bartlett's test, which was tested at $p \leq 0.001$, the level used to establish statistical significance was $p \leq 0.05$. See Pathology Report (Appendix X) for details regarding statistical analysis of pathology results.

In general, continuous data were analyzed using an Analysis of Variance (ANOVA), followed by a Dunnett's test if a significant F-value was determined in the ANOVA. For the FOB, continuous data were first analyzed using a Repeated-Measures ANOVA, followed by a one-way ANOVA if there was a significant interaction between dose group and test week. For weeks on which there was a significant treatment effect, Dunnett's test was applied to determine which groups, if any, were significantly different from the control group. Categorical data collected in the FOB were analyzed in a similar manner, using General Linear Modeling (GLM) and Categorical Modeling (CATMOD) Procedures, with post-hoc comparisons using Dunnett's test and an Analysis of Contrasts, respectively (11).

Motor and locomotor activity (activity for the entire session and activity for each 10-minute interval) were analyzed using ANOVA procedures. Session activity data were first analyzed using a Repeated-Measures ANOVA, followed by a one-way ANOVA if there was a significant interaction with test occasion. For weeks on which there was a significant treatment effect, Dunnett's test was used to determine which groups, if any, were significantly different from the control group. Interval data were subjected to a two-way Repeated-Measures ANOVA, using both test interval and test occasion as the repeated measures, followed by a Repeated Measures ANOVA to determine on which weeks there was a significant treatment by interval interaction. For those weeks, the data for each interval were subjected to analysis using a one-way ANOVA to determine at which intervals there was a significant treatment effect. For those intervals, Dunnett's test was used to determine which groups, if any, were significantly different from the control group.

Archival Procedures

The protocol, raw data, wet tissues, tissue blocks and slides, a sample of the test substance, and the final report are archived at locations specified by Bayer Corporation, Agriculture Division, Toxicology, 17745 South Metcalf, Stilwell, Kansas 66085-9104.

RESULTS AND DISCUSSION

Animal Care

The Animal Care Report is provided in Appendix X (page 305). There were no excursions from the defined ranges in temperature or relative humidity.

Analysis of Feed and Water

The results for feed were compared to the allowable limits in "*Lab Chows Animal Diet Reference Guide*" (Publication SP2437M-87010 dated 1987) from Ralston Purina Co., St. Louis, MO. No contaminant levels measured in the batches of Rodent Laboratory Chow used in this study were considered to have affected the outcome of this study.

No contaminant levels were detected in water samples that were considered to affect the outcome of this study.

Test Substance Analysis

The Analytical Chemistry report is provided in Appendix II, page 96. The stability of [redacted] in the dosing suspension was established, with no appreciable decrease in concentration with eight days of storage. Homogeneity of the test substance in the vehicle was also verified, with a coefficient of variation (C.V.) of less than 3% for the nominal 1.0, 5.0 and 120 mg/ml (equivalent to dose levels of 10, 50 and 1200 mg/kg, respectively) dosing suspensions. Nominal doses of 0, 20, 150 and 600 mg/kg for males and 0, 20, 100 and 400 mg/kg for females were determined to be 96.3% to 102% of the nominal dose level. Based on these results, the analytically-confirmed doses were 0, 20, 153, and 578 mg/kg for males and 0, 20, 98 and 410 mg/kg for females. To avoid confusion between the text and tables, doses are referred to throughout this report on the basis of the nominal concentration.

Clinical Observations and Mortality

Clinical observations are summarized in Table 1 (page 34) and the corresponding individual data are tabulated in Appendix IV (page 108).

Five high-dose (600 mg/kg) males and one high-dose (400 mg/kg) female died on the day of exposure (day 0) or within one day following treatment. These deaths are ascribed to exposure to [redacted] There were no other deaths prior to terminal sacrifice, 15 days following treatment.

Compound-related signs were evident in males at all three dose levels and in mid- (100 mg/kg) and high-(400 mg/kg) dose females. Clinical signs in males that received 20 mg/kg [redacted] consisted of red nasal stain and ptosis of the eyelids. Males that received the 150 mg/kg dose had oral and nasal (red) staining. In addition to oral and nasal staining, the high-dose males had eyelid ptosis, clear nasal discharge, salivation, red lacrimal stain, increased reactivity and stained forepaws*. Compound-related effects in

**The source of stain on the forepaws for high-dose males may be the red nasal or red lacrimal discharge which occurred in those rats.*

mid-(100 mg/kg) dose females consisted of urine, oral and nasal (red) stains. Additional clinical signs in high-(400 mg/kg) dose females consisted of eyelid ptosis, clear nasal discharge, salivation, stained forepaws*, tail lesions* and blood-stained body*. Treatment-related clinical signs in males and females were generally apparent on the day of treatment (day 0) and generally resolved within days 0-9 following treatment. Urine stain and tail lesions persisted in some females that survived the high dose to the end of the observation period, 14 days following treatment.

The remaining clinical signs are considered incidental and not related to treatment with [redacted]. Perianal stain in males and females is attributed to the vehicle, with a low incidence in control and treated rats and/or no corresponding increase in incidence with dose level. Red lacrimal stain in one control and one high-dose female is the only other clinical sign that is not associated wit[redacted] treatment.

Based on these results, the NOEL for clinical signs is <20 mg/kg for males and 20 mg/kg for females.

Body Weight

Group mean body weight values are summarized in Table 2 (page 36). The corresponding individual values are presented in Appendix V (page 127), along with the individual animal results for the FOB.

Body weight was not affected by treatment wit[redacted]n surviving males or females at any dose level. The minimal increase or slight decrease in average body weight for all groups on day 0, relative to each group's respective pretreatment value, reflects the weight loss that occurred when animals were fasted overnight prior to treatment on day 0.

Functional Observational Battery (FOB)

FOB results are summarized in Table 3 (page 37) and Table 4 (page 63), with the results for individual animals presented in Appendix V (page 127). Effects that are associated with exposure t[redacted]are summarized in Table 5 (page 71).

Since the statistics (ANOVA) used to analyze these results used test occasion as a repeated measure, the overall analysis for a day by treatment group interaction excluded animals that did not survive for testing on all four occasions. Therefore, mortality reduced the statistical power of the analysis for the high-dose males (based on seven survivors) and high-dose females (with eleven survivors). However, since many factors other than statistics are used to assess which parameters were affected by the treatment, this circumstance did not compromise the determination of compound-related effects at any dose level.

The stained forepaws, blood-(i.e., red) stained body and tail lesions are ascribed to blood from animals that mutilated their own tails. Two high-dose females (3101 and 3110) chewed the tissue from the end of their tails to the extent that the bone was exposed. Blood (red stain) was also found on the cage material.

Compound-related effects were evident on the day of treatment (day 0) in males and females at all three dose levels. Evidence of exposure at the low dose of 20 mg/kg was limited to eyelid ptosis in both sexes and clear oral stain in one male. Evidence of exposure to [redacted] at the middle dose of 150 mg/kg for males and 100 mg/kg for females consisted of a higher incidence of eyelid ptosis in both sexes and clear oral stain in males, as well as red nasal stain and reduced body temperature in both sexes. Two mid-dose females also had an impaired righting response. While some of these effects at the low and/or mid-dose levels were not statistically significant, they are considered treatment-related based on their absence in concurrent control animals, as well as their relationship to dose level and specific occurrence on the day of treatment. All compound-related effects resolved at these dose levels by the next test occasion, seven days following treatment. Forelimb and hindlimb grip strength and landing foot splay were not affected by treatment in males or females at any dose level.

All remaining compound-related effects were only evident at a lethal dose of 600 mg/kg for males and 400 mg/kg for females. In addition to the effects that were observed at lower doses, the high-dose males and females exhibited decreased activity, repetitive forepaw movements, rigidity, salivation, clear nasal stain, gait incoordination, a reduced approach response (open field) and an impaired righting response. The high-dose males also had chewing movements, hunched posture, tremors, and increased resistance to removal from the home cage, while the high-dose females had lacrimation, clear oral stain, an increased incidence of animals sitting or lying with minimal or only some movement during open-field observation, an increased number of urine pools, relative to controls, and tail lesions ascribed to self-induced mutilation from chewing. Again, while some of these effects were not statistically significant, they are considered treatment-related based on their absence in control animals, their relationship to dose level and specific occurrence on the day of treatment. Furthermore, this laboratory has never observed most of these effects in control animals (7,12-18). The only compound-related effects that persisted to the next test occasion, seven days after treatment, occurred in high-dose females. These consisted of oral stain and stained forepaws, which persisted to day 7, and tail lesions and urine stain, which were still evident on day 14.

The remaining observations on day 0 are considered incidental and not related to treatment with [redacted] Statistically-significant differences that are unrelated to treatment consisted of a lower average foot splay for the mid-dose females and red oral stain for mid-dose males and females. These differences are not associated with treatment, based on the lack of dose-response (not being evident at the high dose). The occurrence of a slightly uncoordinated righting response in one control male on day 0 is attributed to it being recorded when there is minimal evidence of impairment (slight is defined as barely perceptible). Eyelid ptosis in one control female is also attributed to it being noted when only marginally different from typical eyelid closure.

Based on these results, the NOEL for the FOB is <20 mg/kg for males and females, with complete recovery at sub-lethal doses in both sexes by day 7 following treatment.

Motor and Locomotor Activity

Summary session (90-minute) motor and locomotor activity measurements are presented in Table 6 (page 73) and Table 7 (page 75), respectively, and the corresponding individual values are shown in Appendix VI (page 225) and Appendix VII (page 233), respectively. Interval (10-minute) motor and locomotor activity data are summarized in Table 8 (page 77) and Table 9 (page 85), respectively, and individual animal data are presented in Appendix VIII (page 241) and Appendix IX, (page 273), respectively. Motor activity data are also presented in Figures 2 and 3 (pages 93-94) to assist in the evaluation of the data. Comparable figures for locomotor activity are not provided, since there were no substantive differences between the effects of treatment on motor and locomotor activity.

Control males and females had substantially lower levels of motor and locomotor activity on day 0, relative to all other test days (Tables 6 and 7). A decrease in activity for controls on this test day (i.e., the day of treatment) is a consistent finding for acute oral studies (7,12-18) that is attributed to the overnight fast that only occurs prior to the treatment and subsequent testing of animals on day 0.

For the overall 90-minute test session, there were no statistically-significant differences in activity for males or females at any dose level (see table below). This resulted, in spite of certain large differences in activity, because there were statistically-significant interactions between dose group and test interval; this interaction led to the next level of analysis

Summary Motor Activity Results (Percent Difference from Control)[a*]

MALES

Nominal Dose	Pretreatment	Day 0	Day 7	Day 14
20 mg/kg	-1	-1	+5	-8
150 mg/kg	-10	-56	+7	-8
600 mg/kg	-3	+6	-12[b]	-13[b]

FEMALES

Nominal Dose	Pretreatment	Day 0	Day 7	Day 14
20 mg/kg	+8	+28	+15	+9
100 mg/kg	+7	-22	+22	+11
400 mg/kg	+9	-14	+7[c]	+26[c]

[a] *Percent greater (+) or less (-) than concurrent control for N=12 (except as noted).*
[b] *N=7*
[c] *N=11*
[*] *There were no statistically-significant differences ($p \leq 0.05$; ANOVA).*

to determine whether there were differences between dose groups at only certain intervals. Indeed this was the case. Based on the analysis at each test interval, there were significant treatment-related differences from controls at the mid- and high-dose levels for both sexes, with no difference, relative to controls, at the low dose of 20 mg/kg for either sex.

As mentioned above, the mid- and high-dose levels o[redacted]educed measures of activity in both sexes. For males that received a dose of 150 or 600 mg/kg, measures of motor (Table 8) and locomotor (Table 9) activity were reduced on day 0, relative to controls, during either the first interval or the first three intervals of the session. This resulted in a cumulative reduction in motor and locomotor activity for the test session of 56% (Table 6) and 66% (Table 7), respectively, for the mid-dose males. For the high-dose males, there was no apparent cumulative difference in activity for the entire session, because these animals had comparable or higher levels of activity, relative to controls, for all but the first 10-minute interval. For the mid-dose males and surviving high-dose males, levels of activity recovered completely within seven days following treatment, with activity on day 7 being comparable to concurrent controls and to their own pretreatment levels. For females, measures of motor and locomotor activity were also reduced, relative to controls, during the first few intervals at the mid-(100 mg/kg) and high-(400 mg/kg) dose. As occurred with the high-dose males, the overall level of activity for these groups of females was comparable to controls, because these animals had comparable or slightly higher levels of activity, relative to controls, during subsequent test intervals. For the mid- and high- dose groups, levels of activity recovered completely by the next test session, seven days following treatment, with higher average levels of activity on days 7 and 14, relative to controls. For the low-dose females, the somewhat (20-28%) higher level of activity on day 0 is not attributed to treatment since increased activity is inconsistent with the effects at higher dose levels and with males that received this dose. Thus, for the low-dose (20 mg/kg) males and females, both measures of activity are comparable to controls on all test days.

Habituation was not affected by treatment wit[redacted] The magnitude of habituation was reduced in proportion to the level to which activity was reduced during the first intervals of the test session. However, in spite of this difference in the profile of activity within the test session, habituation was evident at all dose levels as a decrease in activity following the first interval.

Based on these results, the NOEL for measures of motor and locomotor activity is 20 mg/kg for both sexes. Treatment-related effects on measures of activity had resolved completely by day 7 for mid-dose and surviving high-dose animals. Such a transient decrease in activity occurs with an assortment of non-neurotoxic treatments (19) and, thus, is not ascribed to neurotoxicity *per se*. Activity was only affected by doses that produced overt signs of toxicity.

Gross Pathology

Individual gross pathology data are presented in Table GP1-IND (page) of the Pathology Report (Appendix X), with the corresponding summary data presented in Table GP1-SUM (page). Gross lesions in the animals that were selected for micropathology are also found in Table GPMP1-IND of Appendix X (page).

The tip of the tail was missing in one high-dose female (BF3101) due to self-induced mutilation. This was the only treatment-related gross lesion in males or females that survived to study termination. For animals that died prior to term, there was evidence of salivation in four of the five high-dose males and the one high-dose female. In addition, there was edema in the ventral neck area in one of the early-death males and urine staining in the early-death female. The tail lesions, evidence of salivation and urine staining are consistent with in-life observations. It is not known whether there is a relationship between the neck lesion and treatment.

Terminal Body and Brain Weights

Individual terminal body weights and brain weights (absolute and relative) are presented in Appendix X, Table OW1K-IND (page) and summarized in Table OW1K-SUM of Appendix X (page).

There were no compound-related effects on terminal body weight or brain weight in surviving males or females.

Micropathology

Individual micropathology data are presented in Table GPMP1-IND of Appendix X (page) and summary micropathology results are presented in Table MP1-SUM (page) of Appendix X.

Neuronal necrosis (grade 2, slight) was observed in one high-dose male (BF3009) and one high-dose female (BF3101). In both instances, this lesion was limited to the midline of the thalamus (Brain Level 5) in the region of the reuniens thalamic nucleus. The necrotic neurons were shrunken with eosinophilic cytoplasm and pyknotic or karyorrhectic nuclei (Figure 1, Appendix X). The surrounding neuropil was very slightly vacuolated. Neurons in other brain regions were morphologically normal.

Since compound-related micropathology was evident at the high dose in both sexes, brain tissue from animals that received the next lower dose was also examined. The brains of the mid-dose males (150 mg/kg) and females (100 mg/kg) showed no compound-related microscopic lesions.

Correlation - In-Life and Microscopic Findings

The in-life and microscopic findings were examined for individual animals to determine whether the two animals with neuropathology were among the most severely affected. Based on this evaluation, it is concluded that the high-dose male (BF3009) and female (BF3101) that had the compound-related microscopic lesions were the most severely affected male and female to survive treatment. Therefore, these results support the conclusion that microscopic lesions only occur in animals that barely survive a lethal dose o[redacted]

SUMMARY AND CONCLUSIONS

Technical grade [redacted] was administered by gavage to fasted adult male and female Fischer 344 rats (12/sex/dose level) at nominal doses of 0, 20, 150 and 600 mg/kg for males and 0, 20, 100 and 400 mg/kg for females. In summary, the following observations were noted:

1. Based on analytical results, the actual doses of [redacted] were 0, 20, 153 and 578 mg/kg for males and 0, 20, 98 and 410 mg/kg for females.

2. Five high-dose (600 mg/kg) males and one high-dose (400 mg/kg) female died on the day of treatment or within one day following exposure. These deaths are ascribed to exposure to [redacted] There were no other deaths prior to terminal sacrifice, 15 days after treatment.

3. Compound-related clinical signs were evident in males at all three dose levels and in females that received doses of 100 or 400 mg/kg. Compound-related signs in males that received 20 mg/kg consisted of red nasal stain and ptosis of the eyelids. Compound-related signs at the highest sub-lethal dose of 150 mg/kg for males and 100 mg/kg for females consisted of oral and nasal (red) stains and these females also had urine stains. Compound-related signs at these dose levels were generally apparent on the day of treatment (day 0) and resolved within days 0-9 following treatment. Based on clinical signs, the No-Observed-Effect-Level (NOEL) is <20 mg/kg for males and 20 mg/kg for females.

4. Body weight was not affected by treatment in surviving males or surviving females at any dose level.

5. Results from the FOB revealed compound-related effects at the time of peak neurobehavioral effects on the day of treatment (day 0) in males and females at all three dose levels. These effects were generally consistent with clinical signs that were evident as clinical observations. Differences (e.g., a higher incidence of ptosis by FOB) are largely ascribed to these test procedures being administered at different times following treatment. All signs of toxicity to sub-lethal doses resolved by the next test occasion, seven days after treatment. Based on FOB results, the NOEL is <20 mg/kg for males and females.

6. Compound-related decreases in motor and locomotor activity in the figure-eight maze occurred on day 0 in males that received doses of 150 or 600 mg/kg and in females that received 100 or 400 mg/kg. Complete recovery occurred in surviving males and females within seven days following treatment. Habituation was not affected by treatment with [redacted] Based on these measures of activity, the NOEL is 20 mg/kg for males and females.

7. Gross lesions in animals that were found dead prior to term consisted of evidence of salivation, urine staining, and edema in the ventral neck region. The only compound-related gross lesions in animals that survived to terminal sacrifice consisted of a missing tip of the tail for one high-dose female. This lesion was ascribed to self-induced mutilation.

8. Terminal brain weight was not affected by treatment in surviving males or females.

9. Neuronal necrosis (grade 2, slight) in the region of the reuniens thalamic nucleus was present at the high dose for both sexes. This only occurred in the most severely affected male and female to survive this lethal dose. Based on these results, the NOEL for microscopic lesions is 150 mg/kg for males and 100 mg/kg for females.

Thus, the present study established a dose-related increase in evidence of toxicity following a single oral dose o[redacted] The high dose of 600 mg/kg for males and 400 mg/kg for females produced severe toxicity, including mortality, and neuropathology in the most severely affected animals to survive treatment. Sub-lethal doses produced transient clinical signs and neurobehavioral changes as the only evidence of toxicity.

The present results provide neurobehavioral evidence of acute toxicity over a wide range of doses and correlative micropathologic findings at a lethal dose. Recovery was complete at sub-lethal doses in males and females within 0-9 days following treatment. The overall NOEL f[redacted]s <20 mg/kg for males and females, based on transient clinical signs.

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Table 1

Summary of Clinical Observations for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

MALES

SIGNS	Nominal Dose (mg/kg) 0[b]	20[b]	150[b]	600[d]
Oral stain	--[c]	--	5(0)	7(0-2)
Red nasal stain	--	1(0)	8(0-1)	6(0-8)
Eye ptosis	--	1(0)	--	5(0)
Clear nasal discharge	--	--	--	5(0)
Salivation	--	--	--	3(0)
Red lacrimal stain	--	--	--	2(1-3)
Increased reactivity	--	--	--	1(0)
Stained forepaws[a]	--	--	--	2(1-3)
Perianal stain	3(0-1)	5(0-7)	3(0-2)	2(0,2-5)

[a] *May be ascribed to nasal and lacrimal discharge (see footnote, page 23).*
[b] *Incidence n=12 (range of days observed).*
[c] *Not observed.*
[d] *Incidence n=7 (range of days observed), due to mortality in the high-dose group.*

Table 1 (continued)

Summary of Clinical Observations for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

FEMALES

SIGNS	Nominal Dose (mg/kg) 0[b]	20[b]	100[b]	400[d]
Urine stain	--[c]	--	2(1-8)	12(0-14)
Oral stain	--	--	3(0)	10(0-8)
Red nasal stain	--	--	1(0)	11(0-6)
Eye ptosis	--	--	--	6(0)
Clear nasal discharge	--	--	--	4(0)
Salivation	--	--	--	4(0)
Stained forepaws[a]	--	--	--	2(1-2,4-7)
Tail lesion[a]	--	--	--	2(1-14)
Body blood stained[a]	--	--	--	1(2-3)
Red lacrimal stain	1(10-12)	--	--	1(1-2,5-6)
Perianal Stain	1(0-1)	--	--	1(0,2-5)

[a] *May be ascribed to self-mutilation (see footnote, page 24).*
[b] *Incidence n=12 (range of days observed).*
[c] *Not observed.*
[d] *Incidence n=11 (range of days observed), due to mortality in the high-dose group.*

Table 2

Summary Body Weight (g) Measurements for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

MALES

Nominal Dose	Pretreatment[a]	Day 0[b]	Day 7	Day 14
0 mg/kg	178 ± 16	179 ± 14	217 ± 14	235 ± 16
20 mg/kg	175 ± 16	176 ± 12	212 ± 12	232 ± 13
150 mg/kg	177 ± 16	177 ± 13	216 ± 13	237 ± 15
600 mg/kg	184 ± 18	185 ± 15	214 ± 14[c]	239 ± 13[c]

FEMALES

Nominal Dose	Pretreatment[a]	Day 0[b]	Day 7	Day 14
0 mg/kg	132 ± 7	123 ± 7	150 ± 6	159 ± 6
20 mg/kg	131 ± 8	123 ± 7	149 ± 7	158 ± 7
100 mg/kg	132 ± 6	122 ± 7	149 ± 8	159 ± 8
400 mg/kg	130 ± 9	122 ± 8	147 ± 10[d]	159 ± 9[d]

[a] *Mean ± S.D. for N=12 (except as noted).*
[b] *Fasted body weight measurements.*
[c] *N=7 (due to mortality)*
[d] *N=11 (due to mortality)*
[e] *There were no statistically-significant differences ($p \leq 0.05$; ANOVA).*

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:12

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Male Rats, DAY Pretreatment
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	150 MG/KG No.	150 MG/KG %	600 MG/KG No.	600 MG/KG %
		Dose Groups							
Number of Animals Examined		12		12		12		12	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		4	33	3	25	3	25	3	25
Sitting or Lying Normally		8	67	9	75	9	75	9	75
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Other									
Not Observed		12	100	12	100	12	100	12	100
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		12	100	11	92	12	100	11	92
Min. Resistance with Vocalizations		0	0	1	8	0	0	1	8
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	11	92
Min. Resistance with Vocalizations		0	0	0	0	0	0	1	8
Muscle Tone									
Normal		12	100	12	100	12	100	12	100
Palpebral Closure									
Normal		12	100	12	100	12	100	12	100
Pupil Size									
Normal		12	100	12	100	12	100	12	100
Pupil Response									
Not Observed		12	100	12	100	12	100	12	100

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:12

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Male Rats, DAY Pretreatment
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	150 MG/KG No.	%	600 MG/KG No.	%
Number of Animals Examined		12		12		12		12	
Lacrimation									
Not Observed		12	100	12	100	12	100	12	100
Salivation									
Not Observed		12	100	12	100	12	100	12	100
Stains									
Not Observed		12	100	12	100	12	100	12	100
Other									
Not Observed		12	100	12	100	12	100	12	100
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Posture									
Standing Normally		12	100	12	100	12	100	12	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Stereotypy									
Not Observed		12	100	12	100	12	100	12	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Arousal									
Normal		12	100	12	100	12	100	12	100
Rearing (counts) (Mean ± S.D.)		5.9	± 1.6	5.2	± 3.0	6.5	± 2.9	5.8	± 3.4

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:12

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Male Rats, DAY Pretreatment
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No. %	20 MG/KG No. %	150 MG/KG No. %	600 MG/KG No. %
Number of Animals Examined		12	12	12	12
Defecation (number of fecal boli) (Mean ± S.D.)		0.9 ± 1.2	1.2 ± 2.3	0.9 ± 1.3	1.7 ± 2.1
Urination (number of urine pools) (Mean ± S.D.)		1.0 ± 0.4	0.8 ± 0.8 *	0.3 ± 0.5	0.7 ± 0.5
REFLEX / PHYSIOLOGIC OBSERVATIONS					
Approach Response					
Slight Reaction		12 100	12 100	12 100	12 100
Touch Response					
Slight Reaction		12 100	12 100	12 100	12 100
Auditory Response					
Slight Reaction		12 100	12 100	12 100	12 100
Tail Pinch Response					
Slight Reaction		12 100	12 100	12 100	12 100
Righting Reflex					
Normal Landing		12 100	12 100	12 100	12 100
Body Temperature (C) (Mean ± S.D.)		38.3 ± 0.3	38.3 ± 0.3	38.1 ± 0.4	38.0 ± 0.4

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p<0.05$)
#Significantly different from control ($p\leq0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p\leq0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:13

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Male Rat[redacted] DAY 0
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	150 MG/KG No.	150 MG/KG %	600 MG/KG No.	600 MG/KG %
Number of Animals Examined		12		12		12		12	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		1	8	1	8	1	8	2	17
Rearing		0	0	1	8	1	8	0	0
Sitting or Lying Normally		11	92	10	83	10	83	10	83
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	9	75
Repetitive Chewing	1	0	0	0	0	0	0	2	17
Tremors	1	0	0	0	0	0	0	* 3	25
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Other									
Not Observed		12	100	10	83	2	17	0	0
Decreased Activity		0	0	0	0	0	0	* 3	25
Other	Ptosis	0	0	3	25	*10	83	*12	100
	Repetitive Forepaw Movements	0	0	0	0	0	0	3	25
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		12	100	12	100	11	92	6	50
Min. Resistance with Vocalizations		0	0	0	0	1	8	5	42
Avoiding Hand		0	0	0	0	0	0	1	8
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	11	92
Squirming		0	0	0	0	0	0	1	8
Muscle Tone									
Normal		12	100	12	100	12	100	* 8	67
Rigid		0	0	0	0	0	0	4	33

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:13

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Male Rats, DAY 0
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	150 MG/KG No.	150 MG/KG %	600 MG/KG No.	600 MG/KG %
Number of Animals Examined		12		12		12		12	
Palpebral Closure									
Normal		12	100	12	100	12	100	* 0	0
Half-Closed		0	0	0	0	0	0	11	92
Completely Closed		0	0	0	0	0	0	1	8
Pupil Size									
Normal		12	100	12	100	12	100	12	100
Pupil Response									
Not Observed		12	100	12	100	12	100	12	100
Lacrimation									
Not Observed		12	100	12	100	12	100	12	100
Salivation									
Not Observed		12	100	12	100	12	100	@ 4	33
	1 C	0	0	0	0	0	0	@ 7	58
	2 C	0	0	0	0	0	0	@ 1	8
Stains									
Not Observed		12	100	9	75	4	33	4	33
Nasal	1 C	0	0	0	0	0	0	# 3	25
	1 R	0	0	0	0	3	25	3	25
Oral	1 C	0	0	1	8	4	33	3	25
	1 R	0	0	0	0	# 3	25	0	0
Perianal	1 B	0	0	3	25	2	17	1	8
Other									
Not Observed		12	100	12	100	12	100	12	100
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Posture									
Standing Normally		12	100	11	92	12	100	9	75
Sitting or Lying Normally		0	0	1	8	0	0	1	8
Hunched Back		0	0	0	0	0	0	1	8
Other	Sitting on hanches with repetitive forepaw movements	0	0	0	0	0	0	1	8
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	9	75

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:13

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Male Rat[redacted] DAY 0
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	150 MG/KG No.	%	600 MG/KG No.	%
Number of Animals Examined		12		12		12		12	
Involuntary Motor Clonic (continued)									
Tremors	1	0	0	0	0	0	0	# 3	25
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Stereotypy									
Not Observed		12	100	12	100	12	100	12	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	11	92
Incoordination	1	0	0	0	0	0	0	1	8
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Arousal									
Normal		7	58	6	50	8	67	7	58
Sluggish - Minimal Movement		2	17	2	17	0	0	2	17
Sluggish - Some Exploratory Movement		3	25	4	33	4	33	3	25
Rearing (counts) (Mean ± S.D.)		2.8	± 4.0	2.0	± 2.4	1.4	± 1.5	0.9	± 1.3
Other									
	Ptosis	0	0	7	58	9	75	12	100
	Repetitive Forepaw Movements	0	0	0	0	0	0	3	25
Defecation (number of fecal boli) (Mean ± S.D.)		0.2	± 0.6	0.5	± 0.8	0.0	± 0.0	0.0	± 0.0
Partially Formed		1	8	0	0	0	0	0	0
Urination (number of urine pools) (Mean ± S.D.)		0.5	± 0.5	0.5	± 0.5	0.8	± 0.4	0.7	± 0.5
REFLEX / PHYSIOLOGIC OBSERVATIONS									
Approach Response									
No Reaction		4	33	6	50	7	58	@11	92

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:13

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Male Rats, DAY 0
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	150 MG/KG No.	%	600 MG/KG No.	%
Number of Animals Examined		12		12		12		12	
Approach Response (continued)									
Slight Reaction		8	67	6	50	5	42	0 1	8
Touch Response									
Slight Reaction		12	100	12	100	12	100	12	100
Auditory Response									
Slight Reaction		12	100	12	100	12	100	11	92
More Energetic than Slight		0	0	0	0	0	0	1	8
Tail Pinch Response									
Slight Reaction		12	100	12	100	12	100	12	100
Righting Reflex									
Normal Landing		11	92	12	100	12	100	9	75
Slightly Uncoordinated		1	8	0	0	0	0	2	17
Landing on Side		0	0	0	0	0	0	1	8
Body Temperature (C) (Mean ± S.D.)		37.1	± 0.6	37.0	± 0.3	* 36.4	± 0.3	* 34.9	± 0.7

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:13

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Male Rat[redacted] 7
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	150 MG/KG No.	150 MG/KG %	600 MG/KG No.	600 MG/KG %
Number of Animals Examined		12		12		12		7	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		5	42	3	25	3	25	2	29
Rearing		1	8	1	8	0	0	0	0
Sitting or Lying Normally		6	50	8	67	9	75	5	71
Piloerection									
Not Observed		12	100	12	100	12	100	7	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	7	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	7	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	7	100
Vocalizations									
Not Observed		12	100	12	100	12	100	7	100
Other									
Not Observed		12	100	12	100	12	100	7	100
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		11	92	12	100	12	100	7	100
Min. Resistance with Vocalizations		1	8	0	0	0	0	0	0
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	7	100
Muscle Tone									
Normal		12	100	12	100	12	100	7	100
Palpebral Closure									
Normal		12	100	12	100	12	100	7	100
Pupil Size									
Normal		12	100	12	100	12	100	7	100
Pupil Response									
Not Observed		12	100	12	100	12	100	7	100

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:14

Table 3
Functional Observational Battery [redacted]ECHNICAL
Summary Data for Male Rats, DAY 7
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	150 MG/KG No.	150 MG/KG %	600 MG/KG No.	600 MG/KG %
Number of Animals Examined		12		12		12		7	
Lacrimation									
Not Observed		12	100	12	100	12	100	7	100
Salivation									
Not Observed		12	100	12	100	12	100	7	100
Stains									
Not Observed		12	100	11	92	12	100	6	86
Nasal	1 R	0	0	0	0	0	0	1	14
Perianal	1 B	0	0	1	8	0	0	0	0
Other									
Not Observed		12	100	12	100	12	100	7	100
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	7	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	7	100
Posture									
Standing Normally		12	100	12	100	12	100	7	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	7	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	7	100
Stereotypy									
Not Observed		12	100	12	100	12	100	7	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	7	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	7	100
Vocalizations									
Not Observed		12	100	12	100	12	100	7	100
Arousal									
Normal		7	58	6	50	5	42	4	57

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:14

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Male Rats, DAY 7
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	150 MG/KG No.	%	600 MG/KG No.	%
Number of Animals Examined		12		12		12		7	
Arousal (continued)									
Sluggish - Some Exploratory Movement		5	42	6	50	7	58	3	43
Rearing (counts) (Mean ± S.D.)		1.9	± 1.9	1.4	± 2.2	1.2	± 1.5	2.1	± 2.5
Defecation (number of fecal boli) (Mean ± S.D.)		1.3	± 1.8	2.1	± 1.8	0.6	± 1.4	1.4	± 1.8
Urination (number of urine pools) (Mean ± S.D.)		0.4	± 0.5	0.5	± 0.5	0.3	± 0.5	0.6	± 0.5
REFLEX / PHYSIOLOGIC OBSERVATIONS									
Approach Response									
No Reaction		4	33	5	42	3	25	2	29
Slight Reaction		8	67	7	58	9	75	5	71
Touch Response									
Slight Reaction		12	100	12	100	12	100	7	100
Auditory Response									
Slight Reaction		12	100	12	100	12	100	7	100
Tail Pinch Response									
Slight Reaction		12	100	12	100	12	100	7	100
Righting Reflex									
Normal Landing		12	100	12	100	12	100	7	100
Body Temperature (C) (Mean ± S.D.)		38.2	± 0.6	37.9	± 0.5	37.7	± 0.4	38.1	± 0.3

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:14

Table 3
Functional Observational Battery - [redacted]ECHNICAL
Summary Data for Male Rats, DAY 14
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	150 MG/KG No.	%	600 MG/KG No.	%
Number of Animals Examined		12		12		12		7	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		3	25	3	25	3	25	3	43
Rearing		0	0	1	8	1	8	0	0
Sitting or Lying Normally		9	75	8	67	8	67	4	57
Piloerection									
Not Observed		12	100	12	100	12	100	7	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	7	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	7	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	7	100
Vocalizations									
Not Observed		12	100	12	100	12	100	7	100
Other									
Not Observed		12	100	12	100	12	100	7	100
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		12	100	12	100	12	100	7	100
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	7	100
Muscle Tone									
Normal		12	100	12	100	12	100	7	100
Palpebral Closure									
Normal		12	100	12	100	12	100	7	100
Pupil Size									
Normal		12	100	12	100	12	100	7	100
Pupil Response									
Not Observed		12	100	12	100	12	100	7	100

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:14

Table 3
Functional Observational Battery[1] - [redacted] TECHNICAL
Summary Data for Male Rats, DAY 14
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	150 MG/KG No.	%	600 MG/KG No.	%
Number of Animals Examined		12		12		12		7	
Lacrimation									
Not Observed		12	100	12	100	12	100	7	100
Salivation									
Not Observed		12	100	12	100	12	100	7	100
Stains									
Not Observed		12	100	12	100	12	100	7	100
Other									
Not Observed		12	100	12	100	12	100	7	100
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	7	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	7	100
Posture									
Standing Normally		12	100	12	100	12	100	7	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	7	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	7	100
Stereotypy									
Not Observed		12	100	12	100	12	100	7	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	7	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	7	100
Vocalizations									
Not Observed		12	100	12	100	12	100	7	100
Arousal									
Normal		6	50	5	42	6	50	3	43
Sluggish - Some Exploratory Movement		6	50	7	58	6	50	4	57

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:06:14

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Male Rats, DAY 14
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	150 MG/KG No.	%	600 MG/KG No.	%
Number of Animals Examined		12		12		12		7	
Rearing (counts) (Mean ± S.D.)		1.4 ± 2.4		2.0 ± 2.7		1.2 ± 2.1		3.1 ± 4.5	
Defecation (number of fecal boli) (Mean ± S.D.)		0.8 ± 1.9		1.6 ± 1.9		0.8 ± 1.4		0.1 ± 0.4	
Urination (number of urine pools) (Mean ± S.D.)		0.1 ± 0.3		0.7 ± 0.7		0.5 ± 0.7		0.6 ± 0.5	
REFLEX / PHYSIOLOGIC OBSERVATIONS									
Approach Response									
No Reaction		3	25	1	8	1	8	0	0
Slight Reaction		9	75	11	92	11	92	7	100
Touch Response									
Slight Reaction		12	100	12	100	12	100	7	100
Auditory Response									
Slight Reaction		12	100	12	100	12	100	7	100
Tail Pinch Response									
Slight Reaction		12	100	12	100	12	100	7	100
Righting Reflex									
Normal Landing		12	100	12	100	12	100	7	100
Body Temperature (C) (Mean ± S.D.)		37.8 ± 0.6		37.9 ± 0.4		37.8 ± 0.4		37.8 ± 0.5	

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:47

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female Rats, DAY Pretreatment
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	100 MG/KG No.	%	400 MG/KG No.	%
Number of Animals Examined		12		12		12		12	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		4	33	2	17	6	50	3	25
Rearing		0	0	1	8	0	0	1	8
Sitting or Lying Normally		8	67	9	75	6	50	8	67
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Other									
Not Observed		12	100	12	100	12	100	12	100
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		12	100	12	100	11	92	12	100
Min. Resistance with Vocalizations		0	0	0	0	1	8	0	0
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	12	100
Muscle Tone									
Normal		12	100	12	100	12	100	12	100
Palpebral Closure									
Normal		12	100	12	100	12	100	12	100
Pupil Size									
Normal		12	100	12	100	12	100	12	100
Pupil Response									
Not Observed		12	100	12	100	12	100	12	100

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:48

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female Rats, DAY Pretreatment
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	100 MG/KG No.	%	400 MG/KG No.	%
Number of Animals Examined		12		12		12		12	
Lacrimation									
Not Observed		12	100	12	100	12	100	12	100
Salivation									
Not Observed		12	100	12	100	12	100	12	100
Stains									
Not Observed		12	100	12	100	12	100	12	100
Other									
Not Observed		12	100	12	100	12	100	12	100
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Posture									
Standing Normally		12	100	12	100	12	100	12	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Stereotypy									
Not Observed		12	100	12	100	12	100	12	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Arousal									
Normal		12	100	12	100	12	100	12	100
Rearing (counts) (Mean ± S.D.)		8.1	± 2.6	8.0	± 2.1	8.8	± 4.1	8.8	± 1.9

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:48

Table 3
Functional Observational Battery - [redacted]ECHNICAL
Summary Data for Female Rats, DAY Pretreatment
Study Number 94-412-BF

Description	Severity/Color	Dose Groups: 0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	100 MG/KG No.	100 MG/KG %	400 MG/KG No.	400 MG/KG %
Number of Animals Examined		12		12		12		12	
Defecation (number of fecal boli) (Mean ± S.D.)		0.0 ± 0.0		0.1 ± 0.3		0.0 ± 0.0		0.3 ± 1.2	
Urination (number of urine pools) (Mean ± S.D.)		0.3 ± 0.5		0.2 ± 0.4		0.3 ± 0.5		0.5 ± 0.7	
REFLEX / PHYSIOLOGIC OBSERVATIONS									
Approach Response									
No Reaction		2	17	0	0	0	0	1	8
Slight Reaction		10	83	12	100	12	100	11	92
Touch Response									
Slight Reaction		12	100	12	100	12	100	12	100
Auditory Response									
Slight Reaction		12	100	12	100	12	100	12	100
Tail Pinch Response									
Slight Reaction		12	100	12	100	12	100	12	100
Righting Reflex									
Normal Landing		12	100	12	100	12	100	12	100
Body Temperature (C) (Mean ± S.D.)		38.0 ± 0.5		38.2 ± 0.6		38.2 ± 0.9		38.1 ± 0.6	

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:48

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female Rats, D[redacted] 0
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	100 MG/KG No.	100 MG/KG %	400 MG/KG No.	400 MG/KG %
Number of Animals Examined		12		12		12		12	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		2	17	1	8	2	17	1	8
Rearing		2	17	1	8	0	0	0	0
Sitting or Lying Normally		8	67	10	83	10	83	10	83
Other	Sitting on haunches with repetitive forepaw movement	0	0	0	0	0	0	1	8
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	11	92
Incoordination	1	0	0	0	0	0	0	1	8
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	12	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Other									
Not Observed		12	100	11	92	3	25	0	0
Decreased Activity		0	0	0	0	0	0	* 1	8
Other	Ptosis	0	0	1	8	* 9	75	*12	100
	Repetitive forepaw movements	0	0	0	0	0	0	1	8
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		12	100	12	100	11	92	11	92
Min. Resistance with Vocalizations		0	0	0	0	1	8	0	0
Avoiding Hand		0	0	0	0	0	0	1	8
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	12	100
Muscle Tone									
Normal		12	100	12	100	12	100	11	92
Rigid		0	0	0	0	0	0	1	8
Palpebral Closure									
Normal		12	100	12	100	11	92	@ 0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:48

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female Rats, DAY 0
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	100 MG/KG No.	100 MG/KG %	400 MG/KG No.	400 MG/KG %
Number of Animals Examined		12		12		12		12	
Palpebral Closure (continued)									
Half-Closed		0	0	0	0	1	8	@11	92
Completely Closed		0	0	0	0	0	0	@ 1	8
Pupil Size									
Normal		12	100	12	100	12	100	12	100
Pupil Response									
Not Observed		12	100	12	100	12	100	12	100
Lacrimation									
Not Observed		12	100	12	100	12	100	@ 6	50
	1 C	0	0	0	0	0	0	@ 6	50
Salivation									
Not Observed		12	100	12	100	12	100	@ 4	33
	1 C	0	0	0	0	0	0	@ 7	58
	1 R	0	0	0	0	0	0	@ 1	8
Stains									
Not Observed		12	100	12	100	9	75	0	0
Nasal	1 C	0	0	0	0	0	0	# 9	75
	1 R	0	0	0	0	2	17	2	17
Oral	1 C	0	0	0	0	0	0	2	17
	1 R	0	0	0	0	# 3	25	0	0
Perianal	1 B	0	0	0	0	0	0	1	8
Other									
Not Observed		12	100	12	100	12	100	12	100
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	12	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	12	100
Posture									
Standing Normally		12	100	12	100	12	100	11	92
Other	Sitting on haunches with repetitive forepaw movements	0	0	0	0	0	0	1	8
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	12	100

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:48

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Female Rats, [redacted] 0
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	100 MG/KG No.	100 MG/KG %	400 MG/KG No.	400 MG/KG %
Number of Animals Examined		12		12		12		12	
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	12	100
Stereotypy									
Not Observed		12	100	12	100	12	100	12	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	12	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	11	92
Incoordination	1	0	0	0	0	0	0	1	8
Vocalizations									
Not Observed		12	100	12	100	12	100	12	100
Arousal									
Normal		11	92	10	83	12	100	@ 6	50
Sluggish - Minimal Movement		0	0	0	0	0	0	@ 1	8
Sluggish - Some Exploratory Movement		1	8	2	17	0	0	@ 5	42
Rearing (counts) (Mean ± S.D.)		4.1	± 4.8	5.1	± 3.0	2.6	± 1.0	1.3	± 1.4
Other									
	Ptosis	1	8	0	0	6	50	11	92
Defecation (number of fecal boli) (Mean ± S.D.)		0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0
Urination (number of urine pools) (Mean ± S.D.)		0.2	± 0.4	0.1	± 0.3	0.1	± 0.3	* 0.9	± 0.3
REFLEX / PHYSIOLOGIC OBSERVATIONS									
Approach Response									
No Reaction		4	33	2	17	3	25	@11	92
Slight Reaction		8	67	10	83	9	75	@ 1	8
Touch Response									
Slight Reaction		12	100	12	100	12	100	12	100
Auditory Response									
Slight Reaction		12	100	12	100	12	100	12	100

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:49

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female Rats, DAY 0
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	100 MG/KG No.	%	400 MG/KG No.	%
Number of Animals Examined		12		12		12		12	
Tail Pinch Response									
Slight Reaction		12	100	12	100	12	100	12	100
Righting Reflex									
Normal Landing		12	100	12	100	10	83	8	67
Slightly Uncoordinated		0	0	0	0	2	17	2	17
Landing on Side		0	0	0	0	0	0	2	17
Body Temperature (C) (Mean ± S.D.)		37.0 ± 1.0		37.1 ± 0.4		* 36.1 ± 0.5		* 34.5 ± 1.0	

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:49

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female Rats, DAY 7
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	100 MG/KG No.	%	400 MG/KG No.	%
Number of Animals Examined		12		12		12		11	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		7	58	4	33	4	33	7	64
Rearing		0	0	1	8	3	25	1	9
Sitting or Lying Normally		5	42	7	58	5	42	3	27
Piloerection									
Not Observed		12	100	12	100	12	100	11	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	11	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	11	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	11	100
Vocalizations									
Not Observed		12	100	12	100	12	100	11	100
Other									
Not Observed		12	100	12	100	12	100	9	82
	tail lesion	0	0	0	0	0	0	2	18
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		12	100	12	100	12	100	11	100
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	11	100
Muscle Tone									
Normal		12	100	12	100	12	100	11	100
Palpebral Closure									
Normal		12	100	12	100	12	100	11	100
Pupil Size									
Normal		12	100	12	100	12	100	11	100
Pupil Response									
Not Observed		12	100	12	100	12	100	11	100

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:49

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Female Rats, DAY 7
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	100 MG/KG No.	100 MG/KG %	400 MG/KG No.	400 MG/KG %
Number of Animals Examined		12		12		12		11	
Lacrimation									
Not Observed		12	100	12	100	12	100	11	100
Salivation									
Not Observed		12	100	12	100	12	100	11	100
Stains									
Not Observed		12	100	12	100	11	92	8	73
Oral	1 R	0	0	0	0	0	0	1	9
Urine	1 Y	0	0	0	0	1	8	2	18
	2 Y	0	0	0	0	0	0	1	9
Other									
Not Observed		12	100	12	100	12	100	10	91
Other	forepaws stained	0	0	0	0	0	0	1	9
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	11	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	11	100
Posture									
Standing Normally		12	100	12	100	12	100	11	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	11	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	11	100
Stereotypy									
Not Observed		12	100	12	100	12	100	11	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	11	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	11	100
Vocalizations									
Not Observed		12	100	12	100	12	100	11	100

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p<0.05$)
#Significantly different from control ($p\leq0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p\leq0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:49

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Female Rats, DAY 7
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	100 MG/KG No.	%	400 MG/KG No.	%
Number of Animals Examined		12		12		12		11	
Arousal									
Normal		11	92	12	100	11	92	10	91
Sluggish - Some Exploratory Movement		1	8	0	0	1	8	1	9
Rearing (counts) (Mean ± S.D.)		6.1	± 4.7	4.4	± 3.1	5.8	± 3.3	7.1	± 3.4
Defecation (number of fecal boli) (Mean ± S.D.)		0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0
Urination (number of urine pools) (Mean ± S.D.)		0.2	± 0.4	0.3	± 0.9	0.1	± 0.3	0.2	± 0.4
REFLEX / PHYSIOLOGIC OBSERVATIONS									
Approach Response									
No Reaction		0	0	1	8	2	17	2	18
Slight Reaction		12	100	11	92	10	83	9	82
Touch Response									
Slight Reaction		12	100	12	100	12	100	11	100
Auditory Response									
Slight Reaction		12	100	12	100	12	100	11	100
Tail Pinch Response									
Slight Reaction		12	100	12	100	12	100	11	100
Righting Reflex									
Normal Landing		12	100	12	100	11	92	11	100
Slightly Uncoordinated		0	0	0	0	1	8	0	0
Body Temperature (C) (Mean ± S.D.)		38.1	± 0.7	37.8	± 0.7	38.2	± 0.7	38.1	± 0.7

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:49

Table 3
Functional Observational Battery [redacted] TECHNICAL
Summary Data for Female [redacted], [redacted] 14
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	100 MG/KG No.	100 MG/KG %	400 MG/KG No.	400 MG/KG %
Number of Animals Examined		12		12		12		11	
HOME CAGE OBSERVATIONS									
Posture									
Standing Normally		5	42	6	50	6	50	5	45
Rearing		3	25	0	0	1	8	3	27
Sitting or Lying Normally		4	33	6	50	5	42	3	27
Piloerection									
Not Observed		12	100	12	100	12	100	11	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	11	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	11	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	11	100
Vocalizations									
Not Observed		12	100	12	100	12	100	11	100
Other									
Not Observed		12	100	12	100	12	100	9	82
	tail lesion	0	0	0	0	0	0	2	18
OBSERVATIONS DURING HANDLING									
Ease of Removal									
Minimal Resistance		12	100	12	100	12	100	11	100
Reaction to Handling									
Minimal Resistance		12	100	12	100	12	100	11	100
Muscle Tone									
Normal		12	100	12	100	12	100	11	100
Palpebral Closure									
Normal		12	100	12	100	12	100	11	100
Pupil Size									
Normal		12	100	12	100	12	100	11	100
Pupil Response									
Not Observed		12	100	12	100	12	100	11	100

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:49

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female R[redacted], DAY 14
Study Number 94-412-BF

Description	Severity/Color	0 MG/KG No.	0 MG/KG %	20 MG/KG No.	20 MG/KG %	100 MG/KG No.	100 MG/KG %	400 MG/KG No.	400 MG/KG %
		Dose Groups							
Number of Animals Examined		12		12		12		11	
Lacrimation									
Not Observed		12	100	12	100	12	100	11	100
Salivation									
Not Observed		12	100	12	100	12	100	11	100
Stains									
Not Observed		12	100	12	100	12	100	9	82
Urine	1 Y	0	0	0	0	0	0	2	18
Other									
Not Observed		12	100	12	100	12	100	11	100
OPEN FIELD OBSERVATIONS									
Piloerection									
Not Observed		12	100	12	100	12	100	11	100
Respiratory Abnormalities									
Not Observed		12	100	12	100	12	100	11	100
Posture									
Standing Normally		12	100	12	100	12	100	11	100
Involuntary Motor - Clonic									
Not Observed		12	100	12	100	12	100	11	100
Involuntary Motor - Tonic									
Not Observed		12	100	12	100	12	100	11	100
Stereotypy									
Not Observed		12	100	12	100	12	100	11	100
Bizarre Behavior									
Not Observed		12	100	12	100	12	100	11	100
Gait Abnormalities									
Not Observed		12	100	12	100	12	100	11	100
Vocalizations									
Not Observed		12	100	12	100	12	100	11	100
Arousal									
Normal		12	100	11	92	12	100	11	100

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:19:50

Table 3
Functional Observational Battery - [redacted] TECHNICAL
Summary Data for Female R[redacted] 14
Study Number 94-412-BF

Description	Severity/Color	Dose Groups 0 MG/KG No.	%	20 MG/KG No.	%	100 MG/KG No.	%	400 MG/KG No.	%
Number of Animals Examined		12		12		12		11	
Arousal (continued)									
Sluggish - Some Exploratory Movement		0	0	1	8	0	0	0	0
Rearing (counts) (Mean ± S.D.)		6.1	± 4.4	5.3	± 3.1	4.2	± 2.5	7.2	± 3.5
Defecation (number of fecal boli) (Mean ± S.D.)		0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0
Urination (number of urine pools) (Mean ± S.D.)		0.1	± 0.3	0.2	± 0.4	0.0	± 0.0	0.0	± 0.0
REFLEX / PHYSIOLOGIC OBSERVATIONS									
Approach Response									
Slight Reaction		12	100	12	100	12	100	11	100
Touch Response									
Slight Reaction		12	100	12	100	12	100	11	100
Auditory Response									
Slight Reaction		12	100	12	100	12	100	11	100
Tail Pinch Response									
Slight Reaction		12	100	12	100	12	100	11	100
Righting Reflex									
Normal Landing		12	100	12	100	12	100	11	100
Body Temperature (C) (Mean ± S.D.)		38.0	± 0.7	38.1	± 0.7	37.8	± 0.7	38.2	± 0.7

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
*Significantly Different from control ($p \leq 0.05$)
#Significantly different from control ($p \leq 0.05$), without regard to the distribution of severity
@The response profile for this treatment group is significantly different from control ($p \leq 0.05$)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:07:24

Table 4
Functional Observational Battery [redacted] TECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay (mm) for Male Rats, DAY Pretreatment
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	178 ± 16	0.57 ±0.07	0.21 ±0.03	67 ± 10
Group - 20 MG/KG	175 ± 16	0.57 ±0.10	0.19 ±0.03	73 ± 10
Group - 150 MG/KG	177 ± 16	0.59 ±0.10	0.20 ±0.03	71 ± 10
Group - 600 MG/KG	184 ± 18	0.59 ±0.06	0.23 ±0.04	67 ± 7

Nominal Day 0 - 26SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$,ANOVA)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:07:24

Table 4
Functional Observational Battery [redacted] TECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay (mm) for Male Rats, DAY 0
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	179 ± 14	0.72 ±0.08	0.24 ±0.05	66 ± 12
Group - 20 MG/KG	176 ± 12	0.75 ±0.08	0.22 ±0.04	65 ± 7
Group - 150 MG/KG	177 ± 13	0.78 ±0.12	0.24 ±0.03	61 ± 9
Group - 600 MG/KG	185 ± 15	0.69 ±0.11	0.25 ±0.05	66 ± 11

Nominal Day 0 - 26SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$,ANOVA)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:07:24

Table 4
Functional Observational Battery [redacted] TECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay (mm) for Male Rats, DAY 7
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	217 ± 14	0.82 ±0.09	0.27 ±0.04	64 ± 8
Group - 20 MG/KG	212 ± 12	0.81 ±0.05	0.26 ±0.04	64 ± 8
Group - 150 MG/KG	216 ± 13	0.80 ±0.12	0.25 ±0.05	69 ± 5
Group - 600 MG/KG	214 ± 14	0.78 ±0.07	0.28 ±0.04	62 ± 10

Nominal Day 0 - 26SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$, ANOVA)

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:07:25

Table 4
Functional Observational Battery [redacted] TECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay (mm) for Male Rats, DAY 14
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	235 ± 16	0.82 ±0.05	0.29 ±0.04	60 ± 7
Group - 20 MG/KG	232 ± 13	0.86 ±0.08	0.31 ±0.05	62 ± 9
Group - 150 MG/KG	237 ± 15	0.83 ±0.10	0.28 ±0.04	63 ± 9
Group - 600 MG/KG	239 ± 13	0.84 ±0.10	0.31 ±0.07	61 ± 9

Nominal Day 0 - 26SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$, ANOVA)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:20:47

Table 4
Functional Observational Battery [redacted]ECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay (mm) for Female Rats, DAY Pretreatment
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	132 ± 7	0.54 ±0.08	0.17 ±0.03	50 ± 9
Group - 20 MG/KG	131 ± 8	0.57 ±0.11	0.20 ±0.04	53 ± 9
Group - 100 MG/KG	132 ± 6	0.53 ±0.09	0.19 ±0.05	50 ± 11
Group - 400 MG/KG	130 ± 9	0.51 ±0.09	0.18 ±0.04	52 ± 8

Nominal Day 0 - 28SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$, ANOVA)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:20:48

Table 4
Functional Observational Battery [redacted] TECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay (mm) for Female Rats, DAY 0
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	123 ± 7	0.66 ±0.08	0.21 ±0.04	53 ± 9
Group - 20 MG/KG	123 ± 7	0.70 ±0.07	0.23 ±0.03	54 ± 8
Group - 100 MG/KG	122 ± 7	0.72 ±0.11	0.21 ±0.05	43 * ± 8
Group - 400 MG/KG	122 ± 8	0.64 ±0.15	0.19 ±0.03	54 ± 7

Nominal Day 0 - 28SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$,ANOVA)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:20:48

Table 4
Functional Observational Battery [redacted] TECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay [redacted] for Female Rats, DAY 7
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	150 ± 6	0.69 ±0.06	0.26 ±0.04	50 ± 6
Group - 20 MG/KG	149 ± 7	0.74 ±0.11	0.28 ±0.04	49 ± 6
Group - 100 MG/KG	149 ± 8	0.69 ±0.11	0.26 ±0.07	53 ± 13
Group - 400 MG/KG	147 ± 10	0.65 ±0.09	0.24 ±0.06	50 ± 8

Nominal Day 0 - 28SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$,ANOVA)

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:20:48

Table 4
Functional Observational Battery [redacted] TECHNICAL
Summary Body Weight, Grip Strength (kg) and Footsplay (mm) for Female Rats, DAY 14
Study Number 94-412-BF

Treatment Group	Body Weight (g)	Grip Strength Forelimb	Grip Strength Hindlimb	Footsplay
Group - 0 MG/KG	159 ± 6	0.71 ±0.17	0.27 ±0.05	46 ± 7
Group - 20 MG/KG	158 ± 7	0.75 ±0.12	0.29 ±0.04	50 ± 7
Group - 100 MG/KG	159 ± 8	0.70 ±0.11	0.26 ±0.06	46 ± 8
Group - 400 MG/KG	159 ± 9	0.66 ±0.11	0.27 ±0.05	52 ± 4

Nominal Day 0 - 28SEP94
Mean ± S.D.
*Significantly different from control($p \leq 0.05$, ANOVA)

Table 5

Summary Compound-Related FOB Findings on Day 0 for Rats Treated with Technical Gra[redacted] in an Acute Oral Neurotoxicity Study[a]

MALES

		Nominal Dose (mg/kg)[b]			
		0	20	150	600
Home Cage:	Chewing Movements	0	0	0	2
	Tremors	0	0	0	3*
	Decreased Activity	0	0	0	3*
	PTOSIS OF EYELIDS	**0**	**3**	**10***	**12***
	Repetitive Forepaw Movements	0	0	0	3
	Ease of Removal				
	Minimal resistance	12	12	11	6
	Min. resistance with vocalizs.	0	0	1	5
	Avoiding the hand	0	0	0	1
Handling:	Muscle Tone - Rigid	0	0	0	4*
	Palpebral Closure				
	Half-closed	0	0	0	11*
	Completely closed	0	0	0	1*
	Salivation				
	Mild (grade 1)	0	0	0	7*
	Moderate-to-severe (grade 2)	0	0	0	1*
	Nasal stain, clear (grade 1)	0	0	0	3*
	NASAL STAIN, RED (GRADE 1)	**0**	**0**	**3**	**3**
	ORAL STAIN, CLEAR (GRADE 1)	**0**	**1**	**4**	**3**
	Oral stain, red (grade 1)	0	0	3*	0
Open Field:	Posture - Hunched back	0	0	0	1
	Sitting on haunches with repetitive forepaw movements	0	0	0	1
	Tremors (grade 1)	0	0	0	3*
	Gait Incoordination (grade 1)	0	0	0	1
	PTOSIS OF EYELIDS	**0**	**7**	**9**	**12**
	Repetitive forepaw movements	0	0	0	3
	Approach Response				
	Slight reaction	8	6	5	1*
	No reaction	4	6	7	11*
Reflex/Physiologic:	Righting Response				
	Slight incoordination	1	0	0	2
	Landing on side	0	0	0	1*
	BODY TEMPERATURE (MEAN, °C)	**37.1**	**37.0**	**36.4***	**34.9***

[a] *Compound-related effects at a sub-lethal dose are shown in bold type.*
[b] *Incidence, based on 12 animals/group.*
* *Significantly different from control ($p \leq 0.05$).*

Table 5 (Continued)

Summary Compound-Related FOB Findings on Day 0 for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study[a]

FEMALES

		Nominal Dose (mg/kg)[b]			
		0	20	100	400
Home Cage:	Posture-Sitting on haunches with repetitive forepaw movements	0	0	0	1
	Gait Incoordination (grade 1)	0	0	0	1
	Decreased Activity	0	0	0	1*
	PTOSIS OF EYELIDS	**0**	**1**	**9***	**12***
	Repetitive Forepaw Movements	0	0	0	1
Handling:	Muscle Tone - Rigid	0	0	0	1
	PALPEBRAL CLOSURE				
	Half-closed	**0**	**0**	**1**	**11***
	Completely closed	0	0	0	1*
	Lacrimation (grade 1)	0	0	0	6*
	Salivation				
	Clear (grade 1)	0	0	0	7
	Red (grade 1)	0	0	0	1
	Nasal stain, clear (grade 1)	0	0	0	9*
	NASAL STAIN, RED (GRADE 1)	**0**	**0**	**2**	**2**
	Oral stain, clear (grade 1)	0	0	0	2
	Oral stain, red (grade 1)	0	0	3*	0
Open Field:	Sitting on haunches with repetitive forepaw movements	0	0	0	1
	Gait Incoordination (grade 1)	0	0	0	1
	Arousal				
	Some movement	1	2	0	5*
	Minimal movement	0	0	0	1*
	Ptosis of eyelids	**1**	**0**	**6**	**11**
	Urination (Mean, # pools)	0.2	0.1	0.1	0.9*
	Approach Response				
	Slight reaction	8	10	9	1*
	No reaction	4	2	3	11*
	Tail Mutilation	0	0	0	2
Reflex/Physiologic:	**RIGHTING RESPONSE**				
	Slight incoordination	**0**	**0**	**2**	**2**
	Landing on side	0	0	0	2
	BODY TEMPERATURE (MEAN, °C)	**37.0**	**37.1**	**36.1***	**34.5***

[a] *Compound-related effects at a sub-lethal dose are shown in bold type.*
[b] *Incidence, based on 12 animals/group.*
* *Significantly different from control ($p \leq 0.05$).*

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:16

Table 6
[redacted] TECHNICAL
Summary Session Motor Activity for Male Rats
Study Number 94-412-BF

Group	Pretreatment	Day 0	Day 7	Day 14
0 MG/KG	691 ±164 (12)	320 ±125 (12)	623 ±144 (12)	809 ±277 (12)
20 MG/KG	687 ±220 (12)	317 ± 97 (12)	655 ±130 (12)	741 ±254 (12)
150 MG/KG	625 ±124 (12)	141 ± 63 (12)	665 ±170 (12)	745 ±190 (12)
600 MG/KG	669 ±222 (12)	339 ±323 (12)	546 ±309 (7)	707 ±297 (7)

*Significantly different from control ($p \leq 0.05$, ANOVA)
Mean ± S.D (n) for 1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:54

Table 6
[redacted] TECHNICAL
Summary Session Motor Activity for Female Rats
Study Number 94-412-BF

Group	Pretreatment	Day 0	Day 7	Day 14
0 MG/KG	874 ±278 (12)	549 ±203 (12)	811 ±406 (12)	870 ±294 (12)
20 MG/KG	940 ±131 (12)	702 ±481 (12)	932 ±185 (12)	949 ±473 (12)
100 MG/KG	932 ±249 (12)	429 ±572 (12)	990 ±227 (12)	968 ±274 (12)
400 MG/KG	951 ±137 (12)	472 ±515 (12)	871 ±287 (11)	1100 ±403 (11)

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D (n) for 1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:18

Table 7
[redacted]TECHNICAL
Summary Session Locomotor Activity for Male Rats
Study Number 94-412-BF

Group	Pretreatment	Day 0	Day 7	Day 14
0 MG/KG	269 ± 63 (12)	109 ± 41 (12)	220 ± 54 (12)	297 ± 85 (12)
20 MG/KG	263 ± 91 (12)	107 ± 40 (12)	230 ± 66 (12)	274 ± 92 (12)
150 MG/KG	260 ± 58 (12)	37 ± 20 (12)	252 ± 67 (12)	290 ± 79 (12)
600 MG/KG	266 ± 78 (12)	91 ± 94 (12)	197 ±112 (7)	276 ±128 (7)

*Significantly different from control ($p \leq 0.05$, ANOVA)
Mean ± S.D (n) for 1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:56

Table 7
[redacted]TECHNICAL
Summary Session Locomotor Activity for Female Rats
Study Number 94-412-BF

Group	Pretreatment	Day 0	Day 7	Day 14
0 MG/KG	328 ±122 (12)	179 ± 73 (12)	293 ±162 (12)	311 ±114 (12)
20 MG/KG	354 ± 79 (12)	214 ±170 (12)	341 ± 64 (12)	352 ±187 (12)
100 MG/KG	356 ±124 (12)	126 ±205 (12)	349 ± 92 (12)	342 ±114 (12)
400 MG/KG	358 ± 48 (12)	102 ± 82 (12)	335 ±120 (11)	417 ±173 (11)

*Significantly different from control ($p \leq 0.05$, ANOVA)
Mean ± S.D (n) for 1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:45

[redacted]ble 8
[redacted]TECHNICAL
Summary Interval Motor Activity for Male Rats, Pretreatment
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	279 ± 55	204 ± 46	116 ± 55	55 ± 39	12 ± 28	23 ± 41	0 ± 1	1 ± 3	2 ± 5
20 MG/KG	264 ± 59	192 ± 66	112 ± 65	43 ± 43	28 ± 36	12 ± 27	12 ± 27	13 ± 29	13 ± 37
150 MG/KG	276 ± 54	212 ± 44	109 ± 46	23 ± 24	2 ± 6	3 ± 6	0 ± 0	1 ± 2	0 ± 0
600 MG/KG	243 ± 51	192 ± 64	121 ± 74	55 ± 55	28 ± 36	12 ± 27	8 ± 18	6 ± 12	4 ± 9

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 12/600 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:45

Table 8
[redacted]TECHNICAL
Summary Interval Motor Activity for Male Rats, Day 0
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	189 ± 59	88 ± 43	30 ± 29	6 ± 16	0 ± 1	1 ± 1	1 ± 3	3 ± 8	2 ± 5
20 MG/KG	180 ± 39	78 ± 33	38 ± 48	7 ± 12	4 ± 12	6 ± 9	2 ± 4	1 ± 3	1 ± 2
150 MG/KG	78* ± 27	20 ± 14	6 ± 7	7 ± 10	3 ± 6	14 ± 15	7 ± 14	1 ± 2	5 ± 8
600 MG/KG	83* ± 68	93 ±183	64 ± 97	27* ± 30	10 ± 10	18* ± 23	9 ± 7	18* ± 21	19* ± 20

*Significantly different from control (p<0.05, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 12/600 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:45

Table 8
[redacted]ECHNICAL
Summary Interval Motor Activity for Male Rats, Day 7
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	265 ± 46	181 ± 46	94 ± 73	50 ± 57	22 ± 43	3 ± 7	1 ± 2	2 ± 4	6 ± 17
20 MG/KG	254 ± 42	198 ± 42	115 ± 40	59 ± 44	18 ± 27	1 ± 3	6 ± 12	1 ± 3	3 ± 9
150 MG/KG	248 ± 33	208 ± 47	117 ± 72	66 ± 77	13 ± 24	10 ± 34	3 ± 9	1 ± 3	0 ± 1
600 MG/KG	220 ± 70	176 ±100	73 ± 53	40 ± 61	12 ± 33	18 ± 46	4 ± 11	0 ± 0	3 ± 6

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 7/600 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:45

[redacted]le 8
[redacted]ECHNICAL
Summary Interval Motor Activity for Male Rats, Day 14
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	290 ± 55	183 ± 47	131 ± 72	83 ± 56	53 ± 45	24 ± 30	22 ± 46	10 ± 26	14 ± 23
20 MG/KG	310 ± 40	192 ± 57	107 ± 69	49 ± 46	19 ± 30	15 ± 37	20 ± 50	25 ± 56	5 ± 11
150 MG/KG	252 ± 47	200 ± 38	142 ± 57	79 ± 52	37 ± 52	11 ± 21	10 ± 23	5 ± 9	10 ± 27
600 MG/KG	242 ± 80	171 ± 39	101 ± 36	72 ± 55	61 ± 79	21 ± 27	10 ± 15	28 ± 50	1 ± 2

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 7/600 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:46

Table 8
[redacted]TECHNICAL
Summary Interval Motor Activity for Female Rats, Pretreatment
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	283 ± 40	234 ± 89	174 ± 61	98 ± 94	67 ± 69	12 ± 32	0 ± 0	1 ± 3	6 ± 20
20 MG/KG	304 ± 55	250 ± 52	205 ± 29	145 ± 50	23 ± 29	7 ± 21	4 ± 12	3 ± 8	0 ± 1
100 MG/KG	315 ± 44	242 ± 39	198 ± 48	104 ± 95	50 ± 81	16 ± 51	6 ± 21	0 ± 0	0 ± 0
400 MG/KG	311 ± 33	243 ± 41	198 ± 48	110 ± 58	44 ± 56	34 ± 66	0 ± 1	2 ± 5	9 ± 28

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 12/400 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:46

Table 8
[redacted]ECHNICAL
Summary Interval Motor Activity for Female Rats, Day 0
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	236 ± 50	146 ± 65	69 ± 73	42 ± 57	13 ± 21	11 ± 18	15 ± 25	13 ± 29	3 ± 9
20 MG/KG	209 ± 42	156 ± 68	103 ± 68	67 ± 66	43 ± 46	30 ± 61	31 ± 70	29 ± 61	34 ± 73
100 MG/KG	138* ± 38	75 ± 61	49 ± 71	19 ± 63	16 ± 34	22 ± 50	41 ± 93	32 ±102	37 ± 86
400 MG/KG	106* ± 45	77 ± 96	46 ± 44	30 ± 32	42 ± 98	35 ± 64	30 ± 38	55 ±101	52 ± 97

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 12/400 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:46

Table 8
[redacted]TECHNICAL
Summary Interval Motor Activity for Female Rats, Day 7
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	230 ± 92	187 ±100	140 ± 75	83 ± 74	47 ± 60	33 ± 46	31 ± 54	35 ± 58	24 ± 48
20 MG/KG	298* ± 36	230 ± 47	184 ± 59	97 ± 59	39 ± 58	15 ± 37	26 ± 61	12 ± 18	30 ± 83
100 MG/KG	307* ± 64	235 ± 59	208 ± 42	114 ± 61	56 ± 57	56 ± 65	12 ± 32	0 ± 0	2 ± 4
400 MG/KG	259 ± 59	238 ± 90	180 ± 65	122 ± 72	28 ± 60	11 ± 22	12 ± 29	13 ± 43	8 ± 14

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 11/400 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:47

Table 8
[redacted]TECHNICAL
Summary Interval Motor Activity for Female Rats, Day 14
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	277 ± 60	200 ± 38	149 ± 65	100 ± 72	37 ± 48	37 ± 59	22 ± 32	34 ± 68	13 ± 44
20 MG/KG	317 ± 91	214 ±108	132 ± 83	83 ± 67	58 ± 67	55 ± 84	25 ± 58	40 ± 66	24 ± 43
100 MG/KG	312 ± 37	216 ± 57	177 ± 91	122 ± 62	71 ± 54	36 ± 52	16 ± 34	14 ± 29	5 ± 14
400 MG/KG	286 ± 82	212 ± 91	168 ± 81	135 ± 69	105 ± 87	70 ± 80	50 ± 62	57 ± 83	17 ± 32

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session, in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 11/400 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:46

Table 9
[redacted]ECHNICAL
Summary Interval Locomotor Activity for Male Rats, Pretreatment
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	121 ± 24	76 ± 22	41 ± 21	20 ± 15	3 ± 7	7 ± 13	0 ± 0	0 ± 0	1 ± 2
20 MG/KG	117 ± 29	70 ± 25	40 ± 26	16 ± 15	6 ± 9	4 ± 9	3 ± 8	5 ± 12	4 ± 13
150 MG/KG	130 ± 28	86 ± 23	36 ± 19	8 ± 10	0 ± 0	1 ± 3	0 ± 0	0 ± 0	0 ± 0
600 MG/KG	115 ± 26	74 ± 28	45 ± 30	17 ± 18	6 ± 11	6 ± 12	2 ± 5	1 ± 4	0 ± 0

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 12/600 MG/KG

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DATE: 18AUG95
TIME: 8:47:46

Table 9
[redacted] TECHNICAL
Summary Interval Locomotor Activity for Male Rats, Day 0
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	72 ± 19	25 ± 12	9 ± 10	2 ± 7	0 ± 0	0 ± 0	0 ± 1	0 ± 0	0 ± 0
20 MG/KG	71 ± 19	24 ± 16	8 ± 11	1 ± 3	1 ± 4	1 ± 3	0 ± 1	0 ± 0	0 ± 0
150 MG/KG	24* ± 11	5* ± 6	2 ± 2	1 ± 2	1 ± 3	2 ± 3	1 ± 3	0 ± 1	1 ± 2
600 MG/KG	26* ± 26	18 ± 25	15 ± 24	9 ± 13	2 ± 3	8* ± 11	2 ± 2	6* ± 9	6* ± 8

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 12/600 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:46

[redacted]ble 9
[redacted]TECHNICAL
Summary Interval Locomotor Activity for Male Rats, Day 7
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	105 ± 16	60 ± 17	31 ± 25	17 ± 21	6 ± 12	0 ± 0	0 ± 0	0 ± 0	2 ± 5
20 MG/KG	105 ± 26	65 ± 20	37 ± 20	19 ± 18	4 ± 8	0 ± 0	1 ± 4	0 ± 0	0 ± 0
150 MG/KG	101 ± 20	76 ± 20	42 ± 28	25 ± 34	4 ± 9	3 ± 11	1 ± 5	0 ± 0	0 ± 0
600 MG/KG	93 ± 26	57 ± 38	22 ± 23	16 ± 26	4 ± 11	5 ± 12	0 ± 0	0 ± 0	0 ± 1

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 7/600 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:46

[redacted]le 9
[redacted]TECHNICAL
Summary Interval Locomotor Activity for Male Rats, Day 14
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	119 ± 20	67 ± 15	49 ± 27	29 ± 20	15 ± 16	6 ± 8	8 ± 19	2 ± 5	3 ± 7
20 MG/KG	133 ± 24	67 ± 27	40 ± 26	14 ± 17	6 ± 11	1 ± 2	6 ± 17	7 ± 20	1 ± 2
150 MG/KG	110 ± 24	77 ± 17	52 ± 24	29 ± 19	10 ± 18	4 ± 9	3 ± 7	1 ± 2	3 ± 10
600 MG/KG	107 ± 35	67 ± 21	37 ± 25	27 ± 21	21 ± 27	7 ± 9	1 ± 2	9 ± 16	0 ± 0

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 26SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/150 MG/KG 7/600 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:47

Table 9
[redacted]ECHNICAL
Summary Interval Locomotor Activity for Female Rats, Pretreatment
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	118 ± 22	83 ± 35	60 ± 25	37 ± 42	25 ± 27	4 ± 11	0 ± 0	0 ± 1	2 ± 7
20 MG/KG	129 ± 29	89 ± 32	75 ± 19	53 ± 26	5 ± 7	2 ± 6	1 ± 3	0 ± 0	0 ± 0
100 MG/KG	134 ± 25	88 ± 19	68 ± 22	39 ± 38	20 ± 36	6 ± 19	2 ± 5	0 ± 0	0 ± 0
400 MG/KG	131 ± 15	89 ± 18	70 ± 21	38 ± 23	16 ± 23	12 ± 27	0 ± 0	0 ± 1	3 ± 9

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 12/400 MG/KG

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DATE: 18AUG95
TIME: 10:51:47

Table 9
[redacted] TECHNICAL
Summary Interval Locomotor Activity for Female Rats, Day 0
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	89 ± 29	47 ± 27	21 ± 24	12 ± 18	3 ± 7	4 ± 6	4 ± 8	0 ± 0	0 ± 0
20 MG/KG	76 ± 21	41 ± 24	29 ± 24	18 ± 21	13 ± 18	10 ± 20	11 ± 25	8 ± 21	8 ± 23
100 MG/KG	42* ± 11	18* ± 20	11 ± 21	6 ± 19	4 ± 11	7 ± 18	13 ± 36	13 ± 41	13 ± 33
400 MG/KG	34* ± 22	18* ± 22	13 ± 14	10 ± 13	4 ± 7	7 ± 11	5 ± 9	6 ± 12	5 ± 9

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 12/400 MG/KG

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DATE: 18AUG95
TIME: 10:51:48

Table 9
[redacted] TECHNICAL
Summary Interval Locomotor Activity for Female Rats, Day 7
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	88 ± 41	70 ± 38	53 ± 31	27 ± 28	15 ± 22	13 ± 19	10 ± 19	11 ± 20	7 ± 17
20 MG/KG	117 ± 17	88 ± 17	66 ± 28	32 ± 23	11 ± 18	4 ± 13	7 ± 17	4 ± 7	12 ± 34
100 MG/KG	119 ± 31	83 ± 23	73 ± 21	39 ± 26	15 ± 14	18 ± 26	3 ± 9	0 ± 0	1 ± 2
400 MG/KG	114 ± 31	92 ± 38	64 ± 25	43 ± 27	10 ± 24	2 ± 5	4 ± 12	3 ± 11	2 ± 6

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 11/400 MG/KG

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:48

[redacted]le 9
[redacted]ECHNICAL
Summary Interval Locomotor Activity for Female Rats, Day 14
Study Number 94-412-BF

Group	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
0 MG/KG	115 ± 26	69 ± 21	50 ± 25	33 ± 25	11 ± 17	12 ± 20	6 ± 9	12 ± 26	4 ± 13
20 MG/KG	131 ± 44	79 ± 43	46 ± 31	26 ± 23	23 ± 32	19 ± 30	6 ± 16	14 ± 25	7 ± 15
100 MG/KG	127 ± 23	76 ± 23	59 ± 35	41 ± 24	20 ± 23	11 ± 19	4 ± 8	3 ± 9	2 ± 5
400 MG/KG	123 ± 38	80 ± 38	60 ± 31	48 ± 28	37 ± 32	25 ± 34	18 ± 24	21 ± 34	5 ± 12

*Significantly different from control ($p<0.05$, ANOVA)
Mean ± S.D for 1:30:00 (hh:mm:ss) Test Session in 10 - Minute Intervals
Nominal Day 0 = 28SEP94
Number of Rats/Group: 12/0 MG/KG 12/20 MG/KG 12/100 MG/KG 11/400 MG/KG

MOTOR ACTIVITY FOR MALE RATS
TREATED WITH [redacted] TECHNICAL
STUDY NUMBER 94-412-BF

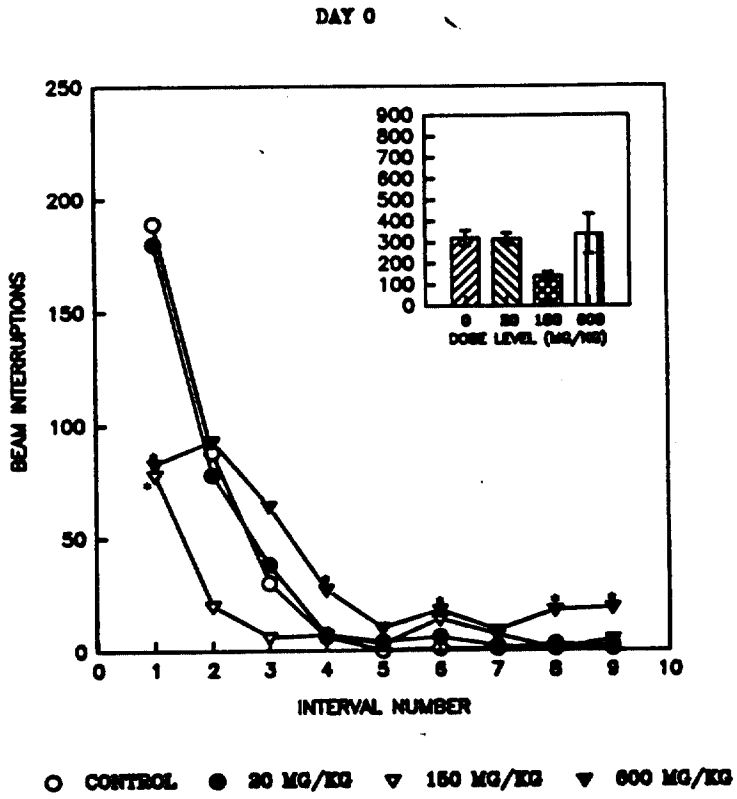

Figure 2. Motor activity for male rats on the day of treatment. Motor activity is expressed as the number of beam interruptions for each 10-minute interval and for the entire 90-minute test session (inset; mean ± S.E.) ($p \leq 0.05$, ANOVA).

MOTOR ACTIVITY FOR FEMALE RATS
TREATED [redacted] TECHNICAL
STUDY NUMBER 94-412-BF

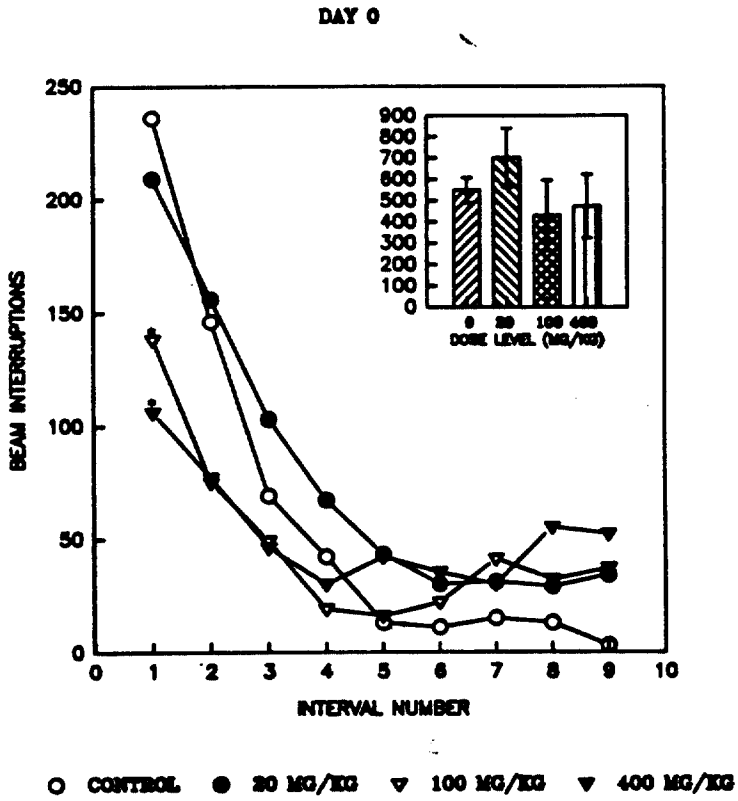

Figure 3. Motor activity for female rats on the day of treatment. Motor activity is expressed as the number of beam interruptions for each 10-minute interval and for the entire 90-minute test session (inset; mean ± S.E.) ($p \leq 0.05$, ANOVA).

Appendix I
Animal Identification Scheme - Datatox and Cage Card Numbers

Study Number 94-412-BF

Nominal Dose Mg/Kg	Males Datatox	Males Cage Card	Nominal Dose Mg/Kg	Females Datatox	Females Cage Card
0	BF0001	1112	0	BF0101	1211
	BF0002	1097		BF0102	1162
	BF0003	1111		BF0103	1209
	BF0004	1105		BF0104	1188
	BF0005	1101		BF0105	1203
	BF0006	1091		BF0106	1192
	BF0007	1133		BF0107	1182
	BF0008	1120		BF0108	1169
	BF0009	1114		BF0109	1176
	BF0010	1092		BF0110	1170
	BF0011	1096		BF0111	1198
	BF0012	1076		BF0112	1158
20	BF1001	1102	20	BF1101	1172
	BF1002	1093		BF1102	1163
	BF1003	1122		BF1103	1191
	BF1004	1124		BF1104	1179
	BF1005	1098		BF1105	1210
	BF1006	1129		BF1106	1202
	BF1007	1104		BF1107	1153
	BF1008	1079		BF1108	1155
	BF1009	1108		BF1109	1206
	BF1010	1081		BF1110	1161
	BF1011	1121		BF1111	1173
	BF1012	1134		BF1112	1168
150	BF2001	1080	100	BF2101	1181
	BF2002	1078		BF2102	1199
	BF2003	1118		BF2103	1185
	BF2004	1085		BF2104	1160
	BF2005	1126		BF2105	1164
	BF2006	1132		BF2106	1201
	BF2007	1123		BF2107	1205
	BF2008	1087		BF2108	1165
	BF2009	1125		BF2109	1194
	BF2010	1130		BF2110	1187
	BF2011	1128		BF2111	1175
	BF2012	1110		BF2112	1200
600	BF3001	1086	400	BF3101	1180
	BF3002	1083		BF3102	1204
	BF3003	1077		BF3103	1186
	BF3004	1115		BF3104	1154
	BF3005	1089		BF3105	1159
	BF3006	1131		BF3106	1156
	BF3007	1088		BF3107	1178
	BF3008	1113		BF3108	1190
	BF3009	1084		BF3109	1189
	BF3010	1127		BF3110	1177
	BF3011	1082		BF3111	1166
	BF3012	1095		BF3112	1167

Appendix II

Analytical Chemistry Report

Author:

K. D. Moore

Analytical Chemistry Report
Acute Oral Neurotoxicity Study with [redacted] Technical in Rats
Study Number 94-412-BF

ABSTRACT

Analytical chemistry procedures were conducted to confirm the identity o[redacted] in technical grade material and to determine the homogeneity, stability and actual concentration o[redacted] in dose preparation given to rats for the acute oral neurotoxicity study.

The chemical purity was 97.8%. The dose mixtures were homogeneous. [redacted] dose mixtures were stable for 8 days at room temperature. The analytically determined mean concentrations of [redacted] dose mixtures for the study were 1.96, 9.84, 15.3, 41.0, and 57.8 mg/ml, respectively, for the nominal levels of 2, 10, 15, 40, and 60 mg/ml.

INTRODUCTION

The analytical chemistry methods and results verifying the chemical identity and the homogeneity, stability and concentrations o[redacted] in dose mixtures are presented for the acute oral neurotoxicity study.

METHODS

Test Substance Analysis

The test substance was analyzed prior to the study for percent active ingredient by the sponsor.

Test Concentration Analysis

The concentration o[redacted] in each dose mixture was determined by liquid chromatographic (LC) analysis.[1]

Homogeneity, Stability and Concentration

Homogeneity was determined from dose mixtures that bracketed the proposed low and high concentrations. Three aliquots of each dose mixture prepared as they would be for the study were analyzed. The mean, standard deviation (SD) and the coefficient of variation (CV) were determined.

Stability testing was conducted on dose mixtures that bracketed the proposed low and high concentrations. Dose mixtures were prepared and stored in at room temperature as they would be for the study. The study duration was 8 days.

Th[redacted] concentration was verified in the dose mixtures used for the study.

---

1. K.D. Moore and L.S. Shelton, "A Liquid Chromatographic Method for the Determination o[redacted] in Dose Mixtures," BAYER Corporation Agriculture Report Number 106372, September 2, 1994.

RESULTS AND DISCUSSION

The active ingredient concentration i[redacted] (Batch Number 17004/93) was 97.8%. The following doses were tested for homogeneity: 1.0, 5.0 and 120 mg/ml.

Table 1

Homogeneity o[redacted]in Deionized Water Containing 0.5% Methylcellulose/0.4% Tween 80

Aliquot Number	Test Concentration,mg/ml 1.0	5.0	120
1	0.954	5.44	129
2	0.942	5.28	123
3	0.940	5.14	129
Mean	0.945	5.29	127
SD	0.008	0.15	3.4
CV	0.8%	2.8%	2.6%

A dose mixture is considered homogeneous if the CV is equal to or less than 6%. Based on CV's of 3% or less[redacted] dose mixtures were considered homogeneous.

Th[redacted]concentrations for the room temperature stability test are presented in Table 2.

Table 2

Room Temperature Stability o[redacted]in Deionized Water Containing 0.5% Methylcellulose/0.4% Tween 80

Day	Test Concentration 1 mg/ml	%Initial	5 mg/ml	%Initial	120 mg/ml	%Initial
Initial	0.945[a]	100	5.29[a]	100	127[a]	100
3	0.983	104	5.16	97.5	120	94.5
8	0.972	103	5.05	95.5	123	96.8

[a] = Mean value from the homogeneity test

[redacted]was considered stable at room temperature for eight days in the 1, 5 and 120 mg/ml dose mixtures with declines in concentration of 0, ~4 and ~3%, respectively.

The analytical concentrations o[redacted] in the dose mixtures are presented in Table 3.

Table 3

[redacted] Concentrations in Deionized Water Containing 0.5% Methylcellulose/0.4% Tween 80

Dose Level, mg/ml	MKH 3586 Concentration Actual	% Nominal
Control	ND	-
2	1.96	98.0
10	9.84	98.4
15	15.3	102
40	41.0	102
60	57.8	96.3

ND = Not Detected

The analytical concentrations for the study were 98.0 to 102% of the nominal levels.

Appendix III

Functional Observational Battery Procedure

BAYER CORPORATION
AGRICULTURE DIVISION
TOXICOLOGY
STANDARD OPERATING PROCEDURE[1]

Topic:
Functional Observational Battery

SOP No. E-200

Date: 1/28/94

Prepared By: L. P. Sheets **Approved By:**

Supercedes: 7/7/93

Introduction: The purpose of the FOB is to use noninvasive procedures to detect gross functional effects in animals resulting from chemical exposure and to quantify behavioral and neurologic effects. The FOB should be conducted blind (i.e., the observer is not told which treatment the animal has received), using standardized procedures to minimize observer variability. Variations in the test conditions should be minimized and not systematically related to treatment.

Study Conduct:

The following procedures that constitute this FOB are based on the battery described by Moser[2] (1989). Enter the results directly into the SAS FOB Computer Program, or when the FOB Program is inaccessible, use TOX FORM 286. For detailed instructions on the use of this Program see the "FOB Data Collection Program User Reference".

Perform the following tests in the order in which they are listed. Prior to FOB acclimation turn all cage cards over so that only actual cage card (tail) numbers are visible to ensure that all persons performing FOB are "blind" to treatment. Remove feeders at least 30 minutes prior to observation in order to improve visibility for home cage observations and to facilitate removal of animals from the home cage. Document feeder removal in the LOGFIL program of DATATOX or on appropriate data sheets.

Indicate '-' if normal or not present.

Score intensity of the observation as follows:
1) Slight (barely perceptible or infrequent)
2) Moderate to Severe

[1] Except for signatures by the study director and laboratory management, this is an exact copy of the Standard Operating Procedure that is maintained on file at Bayer Corporation, Agriculture Division, Toxicology.

[2] Moser, V. C. (1989). Screening Approaches to Neurotoxicity. A Functional Observational Battery. J. Amer. Coll. Toxicol. 8(1), 85-93.

Reviewed and Approved by:

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

Definitions of Individuals Performing FOB:

Observer - Performs home cage and open field observations, including the approach, touch, auditory and tail pinch responses.

Measurer - Performs all measurements. This includes the righting reflex. Enter initials for measurer into LOGFIL whenever FOB is performed.

Recorder - Records results for the observer and the measurer.

Record colors as follows:
C = Clear
W = White
R = Red
Y = Yellow
B = Brown
O = Other (list color)

I. Home Cage Observations - After observation of posture, these are performed with the cage pulled out from the rack for an unobstructed view of the rat.

A. Posture
1) standing normally
2) rearing
3) sitting or lying in a normal position
4) lying flattened, limbs may be spread out
5) lying on side and limbs in the air
6) hunched back (kyphosis)
7-10) other

B. Piloerection - indicate '+' if present

C. Gait abnormalities (score if present)
1) incoordination; excessive swaying, rocking or lurching
2) hindlimbs dragging, showing exaggerated or overcompensated movements or are splayed
3) hindfeet pointing outward from body (approximately 90°)
4) forelimbs dragging, extended or unable to support weight
5) walking on tiptoes
6) stilted
7) body dragging or flattened against surface
8-10) other

D. Involuntary motor movements (score if present)
Clonic
1) repetitive "chewing" movements of mouth and jaw
2) muscle fasciculations
3) tremors
4) myoclonic jerks
5) convulsions
6) wet dog shakes

Scores: 1) Slight (barely perceptible or infrequent)
2) Moderate or Severe

Tonic
1) contraction of extensors such that limbs are rigid and extended
2) head and body rigidly arching backward (opisthotonus)
3) head and body rigidly flexed forward (emprosthotonus)
4) explosive jumping into the air with all feet leaving the surface
5) convulsions

E. Vocalizations - indicate '+' if spontaneous (i.e., without stimuli)

F. Other
1) decreased activity
2) repetitive head bobbing (nutation)
3) increased reactivity
4-8) other

II. Observations During Handling

A. Ease of removing the rat from its cage
1) minimal resistance
2) minimal resistance with vocalizations
3) rearing, often following investigator's hand, with or without vocalizations
4) avoiding investigator's hand, with or without vocalizations
5) attempting to attack investigator's hand, with or without vocalizations

B. Reaction to being handled
1) minimal resistance, without vocalizations
2) minimal resistance, with vocalizations
3) rigid in hand, with or without vocalizations
4) squirming, twisting or attempting to bite, with or without vocalizations

C. Muscle tone (if abnormal)
1) flaccid
2) rigid

D. Palpebral closure (if abnormal)
1) slightly drooped
2) about half-closed
3) completely closed

Scores: 1) Slight (barely perceptible or infrequent)
2) Moderate or Severe

Colors: C = Clear W = White R = Red
Y = Yellow B = Brown or other

E. Pupil size - indicate '+' if dilated

F. Pupil response (test only if dilated). Note the constriction of the pupil as the beam of a penlight is brought in from the side of the rat's head. Indicate '-' if pupil constricts and '+' if unresponsive (remains dilated).

G. Lacrimation - indicate color and score if present

H. Salivation - indicate color and score if present

I. Stains (if present, indicate color and score)
   1) lacrimal
   2) nasal
   3) oral
   4) perianal
   5) urine

J. Other (if present)
   1) alopecia
   2) bite marks
   3) broken teeth/malocclusion
   4) dehydration
   5) emaciation
   6) exophthalmia
   7) missing toe nail(s)
   8) Other

III. Open Field Observations - The rat is placed in the center of a flat surface with a perimeter barrier, such as a cart, for 2 minutes. During this time, the number of rears is counted and other observations are made.

A. Piloerection - indicate '+' if present

B. Respiratory abnormalities:
   1) rapid, shallow
   2) labored
   3) gasping, mouth breathing

C. Posture:
   1) standing normally
   2) rearing
   3) sitting or lying in a normal position
   4) lying flattened, limbs may be spread out
   5) lying on side and limbs in the air
   6) hunched back (kyphosis)
   7-10) other

Scores: 1) Slight (barely perceptible or infrequent)
2) Moderate or Severe

Colors: C = Clear W = White R = Red
Y = Yellow B = Brown or other

D. Involuntary motor movements (score if present):

Clonic
1) repetitive "chewing" movements of mouth and jaw
2) muscle fasciculations
3) tremors
4) myoclonic jerks
5) convulsions
6) wet dog shakes

Tonic
1) contraction of extensors such that limbs are rigid and extended
2) head and body rigidly arching backward (opisthotonus)
3) head and body rigidly flexed forward (emprosthotonus)
4) explosive jumping into the air with all feet leaving the surface
5) convulsions

E. Stereotypy (excessive or repetitive behavior; if present):
1) circling
2) head bobbing (nutation)
3) head weaving
4) pacing
5) stereotypic grooming

F. Bizarre behavior (if present):
1) flopping
2) retropulsion
3) self-mutilation
4) tail held erect (>45°)
5) writhing

G. Gait abnormalities (score if present) Note, if the rat did not move during the 2-minute observation period, it may be gently prodded in order to observe the gait.
1) incoordination; excessive swaying, rocking or lurching
2) hindlimbs dragging, showing exaggerated or overcompensated movements or are splayed
3) hindfeet pointing outward from body (approximately 90 degrees)
4) forelimbs dragging, extended or unable to support weight
5) walking on tiptoes
6) stilted
7) body dragging or flattened against surface

Scores: 1) Slight (barely perceptible or infrequent)
2) Moderate or Severe

H. Vocalizations - indicate '+' if spontaneous (i.e., without stimuli)

I. Arousal (level of unprovoked activity and alertness; if abnormal):
1) inactive or unresponsive
2) sluggish, minimal head or body movement
3) sluggish, some exploratory movements
4) tense, agitated, sudden movements or freezing for short periods
5) hyperactive, attacking, bouts of sudden movements or freezing

J. Rearing - Defined as each time both front feet come completely off the surface, although the rat does not necessarily have to raise itself up (i.e., this is a measure of the ability of the rat to place its weight on its haunches). Includes when the rat uses the perimeter barrier as support.

K. Other

Excretion - at the end of the 2-minute period, measure:

L. Defecation - count the number of boluses. Record 'P' if partially formed, or 'D' if diarrhea is present.

M. Urination - count the number of pools. Record 'E' if polyuria (excessive volume). If urinating while moving, count dribbles as one pool.

IV. <u>Reflex/Physiologic observations and measurements</u>

Stimulus reactivity - Performed while the rat is sitting on the cart surface following open field observations.

A. Approach response - Approach the rat head-on with the end of a blunt object, such as a pencil, then hold the object approximately 3 cm from the face for approximately 4 seconds.
1) no reaction
2) slight response - e.g., ear flick, rat slowly approaching and sniffing or turning away
3) more energetic response than 2)
4) rat freezing and/or having muscle contractions
5) exaggerated reaction - jumping, biting or attacking

B. Touch response - Coming in from the side, touch rump gently with a blunt object.
1) no reaction
2) slight response-e.g., earflick, turning or walking away, with or without vocalization
3) more energetic response than 2)
4) rat freezing and/or having muscle contractions
5) exaggerated reaction - jumping, biting or attacking

C. Auditory response - Position clicker approximately 5 cm above the back of the rat and make a sudden sound.
   1) no reaction
   2) slight reaction, some evidence that the noise was heard
   3) more energetic response than 2)
   4) rat freezing and/or having muscle contractions
   5) exaggerated reaction - jumping, biting or attacking

D. Tail pinch response - metal forceps are used to squeeze the tail approximately 2-3 cm from the tip.
   1) no reaction
   2) slight response-e.g., earflick, turning or walking away with or without vocalization
   3) more energetic response than 2)
   4) rat freezing and/or having muscle contractions
   5) exaggerated reaction - jumping, biting or attacking

E. Righting reflex - The rat is held supine, then dropped from approximately 30 cm. If the rat is severely affected, this test and the landing foot splay will not be performed.
   1) normal, rat landing on feet or sternal position
   2) slightly uncoordinated
   3) landing on side
   4) landing on back
   5) test not performed due to condition of animal

F. Grip strength - Conduct the test according to SOP E-201.

G. Landing foot splay - The fourth (outermost) foot pad of each hind foot is dotted with water-based ink. The rat is dropped three times from a prone position, approximately 30 cm onto paper and the ink spots where the feet land for each trial are marked. The distance (mm) between the middle of the ink spots for each trial are measured. A tolerance of ±2mm will be considered to be acceptable. This test may not be performed due to condition of animal.

   Note as 'NP' if not performed due to animal's condition.

H. Body weight (g)

I. Body temperature - The colonic temperature (°C) is taken with a thermistor allowed to stabilize before reading. Refer to SOP E-202 for details regarding thermistor use and maintenance.

   Enter free form text for any additional observations or explanations as needed.

Appendix IV
Individual Clinical Observations for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 0 mg/kg - MALES

Animal	Observation	Nominal Days
BF0001[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-14
	ACUTE OBSERVATIONS PERIANAL STAIN	0-1
BF0002[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	1-15
BF0003[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	0-14
BF0004[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	1-15
BF0005[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-15
	ACUTE OBSERVATIONS PERIANAL STAIN	1
BF0006[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-15
	ACUTE OBSERVATIONS PERIANAL STAIN	1
BF0007[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	0-14
BF0008[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	0-14
BF0009[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	0-14

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 0 mg/kg - MALES

Animal	Observation	Nominal Days
BF0010[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	0-14
BF0011[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	1-15
BF0012[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	1-15

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 20 mg/kg - MALES

Animal	Observation	Nominal Days
BF1001[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-15
	ACUTE OBSERVATIONS	
	PERIANAL STAIN	1
BF1002[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-15
	ACUTE OBSERVATIONS	
	PERIANAL STAIN	1-2
BF1003[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-15
BF1004[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	0-14
BF1005[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	0-14
BF1006[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	4-14
	EYE	
	PTOSIS	0
	ACUTE OBSERVATIONS	
	PERIANAL STAIN	0-3
BF1007[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-15
BF1008[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-15

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Gra[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 20 mg/kg - MALES

Animal	Observation	Nominal Days
BF1009[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-14
	ACUTE OBSERVATIONS	
	PERIANAL STAIN	0-1
BF1010[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	0-14
BF1011[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	8-14
	ACUTE OBSERVATIONS	
	PERIANAL STAIN	0-7
BF1012[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-15
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	1

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grad[redacted]in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 150 mg/kg - MALES

Animal	Observation	Nominal Days
BF2001a		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-14
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0
BF2002[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	4-15
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	1
	ORAL STAIN	1
	PERIANAL STAIN	1-3
BF2003[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-15
BF2004[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-15
BF2005[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-15
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	1-2
	ORAL STAIN	1
BF2006[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-15
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	1-2
	ORAL STAIN	1
BF2007[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	0-14

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Gra[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 150 mg/kg - MALES

Animal	Observation	Nominal Days
BF2008[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-15
BF2009[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-14
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0
BF2010[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-14
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0
	PERIANAL STAIN	0-2
BF2011[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-14
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0
	ORAL STAIN	0
	PERIANAL STAIN	0-1
BF2012[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-14
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0
	ORAL STAIN	0

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 600 mg/kg - MALES

Animal	Observation	Nominal Days
BF3001[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-14
	EYE	
	PTOSIS	0
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0
	ORAL STAIN	0-1
BF3002[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	7-15
	BODY	
	CONDITION NOT OTHERWISE SPECIFIED.	
	PAWS-FORE,BOTH STAINED	2-4
	ACUTE OBSERVATIONS	
	NASAL DISCHARGE, CLEAR	1
	NASAL STAIN, RED	2-3
	ORAL STAIN	2-3
	PERIANAL STAIN	3-6
BF3003[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	1-15
	EYE	
	PTOSIS	0
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0
	ORAL STAIN	0
BF3004[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	9-14
	EYE	
	PTOSIS	0
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	0-8
	ORAL STAIN	0-1

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual [redacted] Observations for Rats Treated with
Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 600 mg/kg - MALES

Animal	Observation	Nominal Days
BF3005[b]		
	DEAD.	1 (27-SEP-94)
BF3006[b]		
	DEAD.	2 (28-SEP-94)
	ACUTE OBSERVATIONS	
	NASAL DISCHARGE, CLEAR	1
	INCREASED REACTIVITY	1
	ORAL STAIN	1
BF3007[a]		
	DEAD.	0 (26-SEP-94)
BF3008[a]		
	DEAD.	0 (26-SEP-94)
BF3009[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	5-15
	BODY	
	CONDITION NOT OTHERWISE SPECIFIED.	
	PAWS-FORE,BOTH	
	STAINED	2-4
	EYE	
	PTOSIS	1
	ACUTE OBSERVATIONS	
	SALIVATION	1
	NASAL DISCHARGE, CLEAR	1
	LACRIMAL STAIN, RED	3-4
	NASAL STAIN, RED	2-3
	ORAL STAIN	2-3
BF3010[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-14
	EYE	
	PTOSIS	0
	ACUTE OBSERVATIONS	
	SALIVATION	0
	NASAL DISCHARGE, CLEAR	0
	LACRIMAL STAIN, RED	1

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grad[redacted]n an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 600 mg/kg - MALES

Animal	Observation	Nominal Days	
BF3011[b]			
	DEAD.	1	(27-SEP-94)
	ACUTE OBSERVATIONS		
	SALIVATION	1	
	NASAL DISCHARGE, CLEAR	1	
BF3012[b]			
	GENERAL OBSERVATION		
	WITHIN NORMAL LIMITS.	3-15	
	ACUTE OBSERVATIONS		
	NASAL STAIN, RED	1-2	
	ORAL STAIN	1	
	PERIANAL STAIN	1	

[a]*Treated on nominal day 0.*
[b]*Treated on nominal day 1.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Gra[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 0 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF0101[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF0102[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF0103[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	4-11,15-16
	ACUTE OBSERVATIONS	
	LACRIMAL STAIN, RED	12-14
	PERIANAL STAIN	2-3
BF0104[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF0105[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF0106[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF0107[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF0108[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF0109[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 0 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF0110[b]	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF0111[b]	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF0112[b]	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 20 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF1101[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF1102[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF1103[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF1104[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF1105[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF1106[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF1107[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF1108[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF1109[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17
BF1110[b]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	3-17

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grade [redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 20 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF1111[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16
BF1112[a]		
	GENERAL OBSERVATION WITHIN NORMAL LIMITS.	2-16

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grade [redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 100 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF2101[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-16
BF2102[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-17
BF2103[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-16
	ACUTE OBSERVATIONS	
	NASAL STAIN, RED	2
	ORAL STAIN	2
BF2104[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-17
BF2105[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-17
BF2106[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-16
BF2107[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3,12-17
	ACUTE OBSERVATIONS	
	URINE STAIN	4-11
BF2108[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-16
BF2109[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	3-17

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 100 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF2110[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	5-16
	ACUTE OBSERVATIONS	
	URINE STAIN	3-4
	ORAL STAIN	2
BF2111[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	4-17
	ACUTE OBSERVATIONS	
	ORAL STAIN	3
BF2112[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	2-16

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 400 mg/kg - FEMALES

Animal	Observation	Nominal Days	
BF3101[a]			
	BODY		
	CONDITION NOT OTHERWISE SPECIFIED.		
	BLOOD STAINED	4-5	
	PAWS-FORE,BOTH		
	STAINED	3,6-9	
	TAIL		
	TAIL LESION	4-16	
	ACUTE OBSERVATIONS		
	SALIVATION	2	
	URINE STAIN	2-4,6-16	
	LACRIMAL STAIN, RED	3-4,7-8	
	NASAL STAIN, RED	3-8	
	ORAL STAIN	3-10	
BF3102[b]			
	GENERAL OBSERVATION		
	WITHIN NORMAL LIMITS.	5-17	
	EYE		
	PTOSIS	3	
	ACUTE OBSERVATIONS		
	SALIVATION	3	
	NASAL DISCHARGE, CLEAR	3	
	URINE STAIN	4	
	NASAL STAIN, RED	3-4	
BF3103[b]			
	DEAD.	4	(30-SEP-94)
	EYE		
	PTOSIS	3	
	ACUTE OBSERVATIONS		
	SALIVATION	3	
	NASAL DISCHARGE, CLEAR	3	
	URINE STAIN	3	

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with Technical Grad[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 400 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF3104[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	8-16
	EYE	
	PTOSIS	2
	ACUTE OBSERVATIONS	
	URINE STAIN	2-3
	NASAL STAIN, RED	2-3
	ORAL STAIN	2-7
BF3105[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	7-17
	EYE	
	PTOSIS	3
	ACUTE OBSERVATIONS	
	NASAL DISCHARGE, CLEAR	3
	URINE STAIN	4
	NASAL STAIN, RED	4-6
	ORAL STAIN	3-6
BF3106[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	11-17
	BODY	
	CONDITION NOT OTHERWISE SPECIFIED.	
	PAWS-FORE,BOTH STAINED	4-5
	ACUTE OBSERVATIONS	
	SALIVATION	3
	NASAL DISCHARGE, CLEAR	3
	URINE STAIN	3-4,6-10
	NASAL STAIN, RED	4-6
	ORAL STAIN	4-6

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with
Technical Grade [redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 400 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF3107[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	8-16
	EYE	
	PTOSIS	2
	ACUTE OBSERVATIONS	
	URINE STAIN	2-4
	NASAL STAIN, RED	2-4
	ORAL STAIN	2-3
	PERIANAL STAIN	2,4-7
BF3108[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	4-16
	ACUTE OBSERVATIONS	
	URINE STAIN	3
	NASAL STAIN, RED	2-3
	ORAL STAIN	2
BF3109[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	5-16
	ACUTE OBSERVATIONS	
	URINE STAIN	2
	NASAL STAIN, RED	2-4
	ORAL STAIN	2
BF3110[b]		
	BODY	
	CONDITION NOT OTHERWISE SPECIFIED.	
	TAIL	
	TAIL LESION	4-17
	ACUTE OBSERVATIONS	
	URINE STAIN	3-4,10-17
	NASAL STAIN, RED	3-6
	ORAL STAIN	4-6

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

Appendix IV (Continued)
Individual Clinical Observations for Rats Treated with Technical Gr[redacted] in an Acute Oral Neurotoxicity Study

Study Number 94-412-BF

Nominal Dose: 400 mg/kg - FEMALES

Animal	Observation	Nominal Days
BF3111[a]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	5-16
	ACUTE OBSERVATIONS	
	URINE STAIN	2-4
	NASAL STAIN, RED	2-3
	ORAL STAIN	2
BF3112[b]		
	GENERAL OBSERVATION	
	WITHIN NORMAL LIMITS.	5-17
	EYE	
	PTOSIS	3
	ACUTE OBSERVATIONS	
	URINE STAIN	3-4
	NASAL STAIN, RED	3
	ORAL STAIN	3

[a]*Treated on nominal day 2.*
[b]*Treated on nominal day 3.*

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:12

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	+	+	-	-	-	-	+	-	+
Sitting/Lying Normally		+	+	+	-	-	+	+	+	+	-	+	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:13

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		9	3	7	6	6	6	4	6	7	4	7	6
Defecation		0	3	1	0	0	0	3	2	0	2	0	0
Urination		1	1	1	1	1	1	1	1	2	1	1	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

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Date: 24AUG95
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Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.60	.67	.50	.56	.79	.43	.60	.57	.64	.59	.55	.71
Hindlimb - Test 1		.20	.28	.19	.15	.22	.19	.20	.20	.17	.15	.27	.21
Forelimb - Test 2		.63	.60	.59	.49	.58	.56	.54	.45	.60	.48	.40	.63
Hindlimb - Test 2		.14	.20	.27	.20	.22	.18	.21	.20	.24	.21	.27	.24
Landing Foot Splay (mm)													
Test 1		53	57	55	63	77	66	68	50	64	62	74	67
Test 2		48	67	59	49	87	83	61	51	65	69	80	61
Test 3		57	92	62	60	93	75	84	58	68	74	77	72
Body Weight (g)		162	186	183	158	201	187	158	189	182	157	199	170
Body Temperature (C)		38.2	38.6	37.6	37.9	38.4	38.5	38.4	38.4	38.7	38.7	38.3	38.3

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

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Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 20 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	-	-	-	+	-	+	+	-	-
Sitting/Lying Normally		+	+	+	+	+	+	-	+	-	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	-	+	+	+	+	+	+	+	+
Min. Resistance/Vocaliz.		-	-	-	+	-	-	-	-	-	-	-	-
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

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Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 20 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing													
		5	7	9	3	5	0	6	6	7	1	3	10
Defecation													
		4	0	0	0	7	3	0	0	0	0	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
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Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 20 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Urination		0	2	1	1	2	1	0	0	1	0	2	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.58	.56	.68	.48	.71	.60	.35	.71	.68	.54	.47	.46
Hindlimb - Test 1		.22	.17	.21	.17	.16	.21	.17	.20	.13	.20	.18	.13
Forelimb - Test 2		.64	.58	.59	.53	.72	.61	.34	.64	.56	.56	.62	.44
Hindlimb - Test 2		.25	.15	.26	.19	.25	.24	.21	.23	.20	.18	.20	.15
Landing Foot Splay (mm)													
Test 1		64	83	82	72	61	62	71	70	77	77	48	73
Test 2		52	76	91	87	43	76	80	65	78	68	66	77
Test 3		82	76	98	70	67	81	88	70	78	74	64	98
Body Weight (g)		174	184	188	157	179	186	170	194	176	158	190	141
Body Temperature (C)		38.5	38.1	37.8	38.4	38.2	38.7	38.4	37.9	38.6	38.7	38.3	38.1

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:14

Appendix V
Functional Observational Battery [redacted]TECHNICAL
Individual Animal Data for 150 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	-	-	-	-	+	-	-	-	-	+
Sitting/Lying Normally		+	-	+	+	+	+	-	+	+	+	+	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

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Date: 24AUG95
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Appendix V
Functional Observational Battery - [redacted]TECHNICAL
Individual Animal Data for 150 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		6	0	8	8	9	10	4	9	8	7	6	3
Defecation		1	0	0	4	0	1	1	0	1	0	0	3
Urination		0	1	1	0	0	0	1	0	0	0	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

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Date: 24AUG95
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Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 150 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.56	.72	.57	.42	.69	.54	.43	.72	.47	.57	.64	.68
Hindlimb - Test 1		.15	.23	.16	.24	.22	.21	.16	.23	.26	.17	.18	.23
Forelimb - Test 2		.61	.65	.63	.41	.72	.61	.41	.67	.53	.53	.68	.63
Hindlimb - Test 2		.19	.25	.20	.21	.24	.21	.17	.20	.22	.16	.20	.20
Landing Foot Splay (mm)													
Test 1		72	76	77	51	43	82	68	63	68	58	63	58
Test 2		77	67	65	56	58	87	82	72	68	57	106	63
Test 3		71	76	70	63	64	95	92	67	78	94	88	76
Body Weight (g)		158	188	188	163	197	185	155	199	175	163	189	160
Body Temperature (C)		37.8	38.4	37.2	38.4	37.8	38.3	38.3	38.4	37.7	38.5	38.1	38.5

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:14

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3005	BF3006	BF3007	BF3008	BF3009	BF3010	BF3011	BF3012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		+	-	+	-	-	-	+	-	-	-	-	-
Sitting/Lying Normally		-	+	-	+	+	+	-	+	+	+	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	-	+	+	+	+	+	+	+	+	+	+
Min. Resistance/Vocaliz.		-	+	-	-	-	-	-	-	-	-	-	-
Reaction Handled													
Minimal Resistance		+	-	+	+	+	+	+	+	+	+	+	+
Min. Resistance/Vocaliz.		-	+	-	-	-	-	-	-	-	-	-	-
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:15

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3005	BF3006	BF3007	BF3008	BF3009	BF3010	BF3011	BF3012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		5	10	7	7	7	8	3	2	0	12	5	4
Defecation		0	4	0	0	5	0	5	3	3	0	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:15

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id. Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3005	BF3006	BF3007	BF3008	BF3009	BF3010	BF3011	BF3012
Urination	1	0	0	0	1	1	1	1	1	1	1	0
REFLEX / PHYSIOLOGIC OBSERVATIONS												
Approach Response												
Slight Reaction	+	+	+	+	+	+	+	+	+	+	+	+
Touch Response												
Slight Reaction	+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response												
Slight Reaction	+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response												
Slight Reaction	+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex												
Normal Landing	+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)												
Forelimb - Test 1	.60	.63	.61	.69	.48	.52	.56	.48	.54	.58	.69	.55
Hindlimb - Test 1	.17	.27	.18	.26	.20	.21	.18	.21	.20	.27	.24	.15
Forelimb - Test 2	.67	.68	.49	.61	.60	.50	.56	.67	.63	.50	.69	.56
Hindlimb - Test 2	.22	.30	.30	.34	.25	.27	.18	.30	.22	.21	.24	.21
Landing Foot Splay (mm)												
Test 1	69	60	58	78	70	67	60	60	57	73	85	58
Test 2	72	63	58	50	67	60	64	78	63	64	84	58
Test 3	84	66	76	68	73	77	76	69	69	46	81	62
Body Weight (g)	168	192	184	200	201	188	158	197	186	156	211	164
Body Temperature (C)	38.5	38.3	38.2	37.3	37.8	37.8	38.2	38.2	38.5	38	37.8	37.2

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:15

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	+	-	-	-	-	-	-	-	-
Sitting/Lying Normally		+	+	+	-	+	+	+	+	+	+	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:15

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	-	-	+	-	-	-	+	+	+	+	+
Sluggish - Min. Movement		-	+	-	-	-	+	-	-	-	-	-	-
Sluggish - Some Movement		-	-	+	-	+	-	+	-	-	-	-	-
Rearing		3	0	0	7	0	0	0	2	6	0	2	13
Defecation		0	0	0	0	0	P	2	0	0	0	0	0
Urination		0	1	0	0	0	1	1	1	1	1	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:15

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group [redacted] Rats, DAY 0
Study Number 94-412-BF

Animal Id. Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
REFLEX / PHYSIOLOGIC OBSERVATIONS												
Approach Response												
No Reaction	-	+	-	-	-	+	+	+	-	-	-	-
Slight Reaction	+	-	+	+	+	-	-	-	+	+	+	+
Touch Response												
Slight Reaction	+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response												
Slight Reaction	+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response												
Slight Reaction	+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex												
Normal Landing	+	+	+	+	+	+	+	+	-	+	+	+
Slightly Uncoordinated	-	-	-	-	-	-	-	-	+	-	-	-
Grip Strength (kg)												
Forelimb - Test 1	.77	.76	.88	.63	.81	.73	.63	.81	.63	.75	.68	.68
Hindlimb - Test 1	.21	.18	.28	.19	.28	.14	.22	.28	.38	.25	.28	.32
Forelimb - Test 2	.74	.70	.78	.66	.83	.87	.54	.72	.66	.71	.78	.64
Hindlimb - Test 2	.20	.19	.24	.18	.25	.20	.22	.24	.27	.32	.26	.25
Landing Foot Splay (mm)												
Test 1	46	64	45	57	59	74	38	58	73	50	53	67
Test 2	57	70	75	84	98	91	57	67	47	40	58	73
Test 3	55	63	80	75	100	80	58	77	70	45	68	86
Body Weight (g)	166	187	185	162	197	186	163	194	179	158	196	176
Body Temperature (C)	37.2	36.7	36.7	38.3	36.8	37	36.8	36.7	36.3	37.7	36.6	37.9

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:16

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	-	-	-	-	-	+	-	-	-
Rearing		-	-	-	-	-	-	-	-	-	+	-	-
Sitting/Lying Normally		+	+	+	+	+	+	+	+	-	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	-	-	+	+	-	+	+	+	+
Other	ptosis	-	-	-	+	+	-	-	+	-	-	-	-
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:16

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG [redacted] Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		-	+	-	+	+	+	+	+	-	+	+	+
Oral	1 C	+	-	-	-	-	-	-	-	-	-	-	-
Perianal	1 B	+	-	+	-	-	-	-	-	+	-	-	-
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	-	+	+	+	+	+	+	+	+
Sitting/Lying Normally		-	-	-	+	-	-	-	-	-	-	-	-
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		-	-	-	-	+	-	+	+	+	+	-	+
Sluggish - Min. Movement		+	-	-	+	-	-	-	-	-	-	-	-
Sluggish - Some Movement		-	+	+	-	-	+	-	-	-	-	+	-
Rearing													
		0	0	0	0	4	0	6	2	6	4	1	1

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:16

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG [redacted] Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Other													
	ptosis	+	+	+	+	-	-	-	+	-	-	+	+
Defecation		1	0	1	0	0	2	0	0	0	0	0	2
Urination		0	1	0	1	0	1	1	1	0	0	0	1
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		+	+	+	+	-	-	-	+	-	-	+	-
Slight Reaction		-	-	-	-	+	+	+	-	+	+	-	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.73	.48	.78	.60	.83	.83	.83	.64	.88	.73	.92	.71
Hindlimb - Test 1		.21	.20	.26	.17	.20	.24	.18	.39	.19	.23	.26	.15
Forelimb - Test 2		.68	.76	.64	.68	.82	.74	.84	.73	.76	.78	.86	.67
Hindlimb - Test 2		.21	.20	.24	.17	.20	.19	.25	.21	.21	.24	.30	.22
Landing Foot Splay (mm)													
Test 1		54	68	49	68	68	66	67	90	73	57	70	68
Test 2		50	69	53	60	54	48	60	57	83	53	53	84
Test 3		75	63	61	65	71	76	65	67	69	63	80	78
Body Weight (g)		172	176	189	166	175	191	172	190	183	161	185	155
Body Temperature (C)		37.1	37	36.5	36.9	37.4	36.7	36.9	36.7	37.3	37.7	37	37.1

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:16

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 150 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	+	-	-	-	-	-	-	-	-	-
Rearing		-	-	-	-	+	-	-	-	-	-	-	-
Sitting/Lying Normally		+	+	-	+	-	+	+	+	+	+	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		-	-	-	-	-	-	+	-	-	-	+	-
Other	ptosis	+	+	+	+	+	+	-	+	+	+	-	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	-	+
Min. Resistance/Vocaliz.		-	-	-	-	-	-	-	-	-	-	+	-
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:16

Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 150 MG/KG Group [redacted]le Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	-	-	-	-	+	-	+	+	-	-	-
Nasal	1 R	-	-	-	-	+	-	-	-	-	+	-	+
Oral	1 C	-	+	-	+	-	-	-	-	-	-	+	+
	1 R	-	-	+	-	+	-	-	-	-	+	-	-
Perianal	1 B	-	-	-	-	-	-	+	-	-	+	-	-
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	-	-	+	-	+	-	+	+	+	+
Sluggish - Some Movement		-	-	+	+	-	+	-	+	-	-	-	-
Rearing		0	3	0	0	0	1	2	3	1	3	0	4

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:17

Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 150 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
Other													
	ptosis	+	-	+	+	-	+	+	+	+	-	+	+
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		1	1	1	1	1	1	1	1	1	0	1	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	+	+	-	+	+	-	+	+	-	+	-
Slight Reaction		+	-	-	+	-	-	+	-	-	+	-	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.78	.80	.89	.77	.94	.49	.68	.83	.83	.73	.98	.74
Hindlimb - Test 1		.21	.29	.19	.33	.34	.20	.32	.22	.20	.24	.28	.23
Forelimb - Test 2		.59	.83	.88	.76	.96	.73	.64	.75	.78	.57	.98	.77
Hindlimb - Test 2		.27	.25	.27	.20	.27	.21	.21	.18	.20	.19	.20	.33
Landing Foot Splay (mm)													
Test 1		46	55	60	63	48	53	69	50	50	49	68	42
Test 2		56	80	59	58	58	65	73	53	63	74	69	53
Test 3		59	72	73	54	60	81	96	49	58	53	75	43
Body Weight (g)		158	185	183	168	192	188	161	199	176	170	186	163
Body Temperature (C)		36	36.2	36.6	36	36.6	36.2	37	36.2	36.3	36.5	36.6	36.4

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
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BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:17

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3005	BF3006	BF3007	BF3008	BF3009	BF3010	BF3011	BF3012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	-	-	+	-	-	-	-	+	-
Sitting/Lying Normally		+	+	+	+	+	-	+	+	+	+	-	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	-	+	-	+	-	+
Repetitive Chewing	1	-	-	-	-	-	-	-	-	+	-	+	-
Tremors	1	-	-	-	-	-	-	+	-	+	-	+	-
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Decreased Activity		-	-	+	+	-	-	+	-	-	-	-	-
Other	ptosis	+	+	+	+	+	+	+	+	+	+	+	+
	repetitive forepaw movements	-	-	-	-	-	-	+	-	+	-	+	-
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		-	-	+	+	-	+	+	-	-	-	+	+
Min. Resistance/Vocaliz.		+	+	-	-	+	-	-	+	-	+	-	-
Avoiding Hand		-	-	-	-	-	-	-	-	+	-	-	-
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	-	+	+	+
Squirming		-	-	-	-	-	-	-	-	+	-	-	-
Muscle Tone													
Normal		+	+	+	+	-	+	-	+	-	+	-	+
Rigid		-	-	-	-	+	-	+	-	+	-	+	-
Palpebral Closure													
Half-Closed		+	+	+	+	+	+	+	+	+	+	-	+
Completely Closed		-	-	-	-	-	-	-	-	-	-	+	-
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:17

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3005	BF3006	BF3007	BF3008	BF3009	BF3010	BF3011	BF3012
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		-	-	+	-	-	+	-	-	-	+	-	+
	1 C	+	+	-	+	+	-	+	+	+	-	-	-
	2 C	-	-	-	-	-	-	-	-	-	-	+	-
Stains													
Not Observed		+	-	-	-	-	-	-	-	+	+	+	-
Nasal	1 C	-	+	-	+	-	+	-	-	-	-	-	-
	1 R	-	-	-	-	+	-	+	+	-	-	-	-
Oral	1 C	-	-	+	-	-	+	-	-	-	-	-	+
Perianal	1 B	-	-	-	-	+	-	-	-	-	-	-	-
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	-	+	-	+	-	+
Sitting/Lying Normally		-	-	-	-	-	-	+	-	-	-	-	-
Hunched Back		-	-	-	-	-	-	-	-	+	-	-	-
Other sitting on haunches with repetitive forepaw movements		-	-	-	-	-	-	-	-	-	-	+	-
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	-	+	-	+	-	+
Tremors	1	-	-	-	-	-	-	+	-	+	-	+	-
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:17

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3005	BF3006	BF3007	BF3008	BF3009	BF3010	BF3011	BF3012
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	-	+	+	+
Incoordination	1	-	-	-	-	-	-	-	-	+	-	-	-
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	-	-	-	+	-	+	-	+
Sluggish - Min. Movement		-	-	-	-	-	-	+	-	-	-	+	-
Sluggish - Some Movement		-	-	-	-	+	+	-	-	+	-	-	-
Rearing		1	1	0	1	0	0	0	0	0	4	1	3
Other													
ptosis		+	+	+	+	+	+	+	+	+	+	+	+
repetitive forepaw movements		-	-	-	-	-	-	+	-	+	-	+	-
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		1	1	1	1	1	1	0	1	0	1	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	+	+	+	+	+	+	+	+	+	+	+
Slight Reaction		+	-	-	-	-	-	-	-	-	-	-	-
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	-	+	+	+	+	+
More energetic than 2		-	-	-	-	-	-	+	-	-	-	-	-
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	-	+	-	+	+	+	-	+
Slightly Uncoordinated		-	-	-	-	+	-	+	-	-	-	-	-
Landing on Side		-	-	-	-	-	-	-	-	-	-	+	-
Grip Strength (kg)													
Forelimb - Test 1		.70	.79	.70	.86	.58	.60	.59	.80	.37	.80	NP	.64

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:18

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3005	BF3006	BF3007	BF3008	BF3009	BF3010	BF3011	BF3012
Hindlimb - Test 1		.32	.24	.14	.26	.20	.20	.23	.19	.27	.30	NP	.26
Forelimb - Test 2		.66	.52	.81	.74	.59	.79	.63	.87	.52	.77	NP	.80
Hindlimb - Test 2		.30	.34	.15	.33	.23	.20	.29	.26	.29	.21	NP	.34
Landing Foot Splay (mm)													
Test 1		63	77	64	55	88	88	75	56	44	66	66	50
Test 2		49	88	56	73	75	83	85	67	75	41	72	51
Test 3		68	74	57	63	73	78	79	48	73	60	51	52
Body Weight (g)		175	192	186	195	204	190	170	190	192	161	204	163
Body Temperature (C)		35.5	35.1	35.1	35.7	34.5	34.3	33.8	35.9	33.6	35.6	34.6	35.1

Nominal Day 0 - 26SEP94
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:18

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		+	-	-	-	+	+	+	-	+	-	-	-
Rearing		-	-	-	-	-	-	-	-	-	+	-	-
Sitting/Lying Normally		-	+	+	+	-	-	-	+	-	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	-	+	+
Min. Resistance/Vocaliz.		-	-	-	-	-	-	-	-	-	+	-	-
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
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Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG [redacted] Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	-	-	+	-	-	+	+	+	+	-
Sluggish - Some Movement		-	-	+	+	-	+	+	-	-	-	-	+
Rearing		3	3	0	1	3	0	0	3	6	0	3	1
Defecation		0	4	0	0	0	4	4	1	0	0	0	2

Nominal Day 0 - 26SEP94
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C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
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Appendix V [redacted]
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
Urination		0	1	0	0	0	1	1	1	0	1	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	+	-	+	-	-	-	+	-	+
Slight Reaction		+	+	+	-	+	-	+	+	+	-	+	-
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.93	.90	.88	.71	.92	.97	.70	.89	.79	.71	.81	.89
Hindlimb - Test 1		.34	.25	.44	.30	.25	.24	.23	.20	.19	.18	.24	.30
Forelimb - Test 2		.78	.73	.82	.63	.90	.98	.66	.83	.86	.76	.76	.81
Hindlimb - Test 2		.22	.22	.25	.30	.35	.27	.24	.30	.34	.32	.24	.36
Landing Foot Splay (mm)													
Test 1		68	58	55	88	63	60	67	46	73	43	53	68
Test 2		48	56	73	84	64	71	63	60	63	60	45	70
Test 3		57	65	72	70	74	73	89	70	65	57	62	46
Body Weight (g)		201	227	224	198	230	229	197	233	215	199	228	217
Body Temperature (C)		38.4	38.4	37.4	37.1	38.6	38.5	38.5	38.8	38.4	38.9	37.5	37.6

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:18

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG [redacted] Male Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	+	-	-	-	+	-	-	+	-	-
Rearing		-	-	-	-	-	-	-	+	-	-	-	-
Sitting/Lying Normally		+	+	-	+	+	+	-	-	+	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:18

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Male Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	-	+
Perianal	1 B	-	-	-	-	-	-	-	-	-	-	+	-
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	-	+	-	+	-	+	+	-	+	-	-
Sluggish - Some Movement		-	+	-	+	-	+	-	-	+	-	+	+
Rearing													
		3	0	0	0	0	0	6	5	0	3	0	0
Defecation													
		2	4	2	0	0	1	2	2	6	1	1	4

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:19

Appendix V
Functional Observational Batter[redacted] TECHNICAL
Individual Animal Data for 20 MG/K[redacted]ale Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Urination		1	1	0	0	0	1	1	0	1	1	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		+	-	-	+	+	+	-	-	-	-	-	+
Slight Reaction		-	+	+	-	-	-	+	+	+	+	+	-
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.83	.89	.88	.76	.91	.89	.76	.92	.80	.76	.92	.79
Hindlimb - Test 1		.27	.22	.21	.22	.33	.27	.25	.37	.29	.17	.22	.25
Forelimb - Test 2		.73	.81	.75	.75	.88	.81	.73	.74	.85	.70	.84	.73
Hindlimb - Test 2		.26	.24	.22	.28	.24	.25	.36	.35	.26	.27	.22	.19
Landing Foot Splay (mm)													
Test 1		73	69	72	63	59	57	74	48	77	84	58	67
Test 2		59	61	81	74	40	51	73	46	70	49	55	58
Test 3		54	68	68	61	54	68	82	72	72	68	54	75
Body Weight (g)		205	199	227	210	207	228	220	224	220	189	218	202
Body Temperature (C)		37.9	37.9	38	37.1	37.6	38.5	38.2	37.2	38.1	38.7	37.9	37.7

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:19

Appendix V [redacted] TECHNICAL
Functional Observational Battery [redacted]
Individual Animal Data for 150 MG/KG Group Male Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	+	-	-	-	+	-	-	-	-	-
Sitting/Lying Normally		+	-	-	+	+	+	-	+	+	+	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:19

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 150 MG/K[redacted]ale Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		-	-	+	-	-	-	+	+	+	-	-	+
Sluggish - Some Movement		+	+	-	+	+	+	-	-	-	+	+	-
Rearing													
		2	0	0	1	1	0	2	0	4	0	0	4
Defecation													
		0	0	0	0	0	3	0	0	4	0	0	0
Urination													
		0	1	0	0	0	1	1	1	0	0	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:19

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 150 MG/K[redacted] Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	+	+	-	-	-	-	+	-
Slight Reaction		+	+	+	+	-	-	+	+	+	+	-	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.49	.86	.85	.78	1.09	.76	.84	.91	.83	.73	.92	.73
Hindlimb - Test 1		.23	.31	.24	.24	.20	.26	.18	.32	.34	.20	.18	.30
Forelimb - Test 2		.68	.84	.81	.78	.96	.73	.64	.80	.76	.81	.98	.65
Hindlimb - Test 2		.24	.30	.19	.24	.21	.24	.20	.29	.32	.18	.25	.32
Landing Foot Splay (mm)													
Test 1		73	80	73	76	75	73	59	83	78	52	91	63
Test 2		56	73	58	66	56	78	69	63	57	66	52	69
Test 3		65	72	88	62	64	74	79	73	47	69	77	71
Body Weight (g)		198	227	221	205	226	229	200	237	220	200	221	211
Body Temperature (C)		37.6	38.2	37.5	38.3	37.2	37.6	38.3	37.4	37.6	37.7	37.1	37.9

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:20

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/[redacted] Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3009	BF3010	BF3012
HOME CAGE OBSERVATIONS								
Posture								
Standing Normally		+	+	-	-	-	-	-
Sitting/Lying Normally		-	-	+	+	+	+	+
Piloerection								
Not Observed		+	+	+	+	+	+	+
Gait Abnormalities								
Not Observed		+	+	+	+	+	+	+
Involuntary Motor Clonic								
Not Observed		+	+	+	+	+	+	+
Involuntary Motor Tonic								
Not Observed		+	+	+	+	+	+	+
Vocalizations								
Not Observed		+	+	+	+	+	+	+
Other								
Not Observed		+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING								
Ease of Removal								
Minimal Resistance		+	+	+	+	+	+	+
Reaction Handled								
Minimal Resistance		+	+	+	+	+	+	+
Muscle Tone								
Normal		+	+	+	+	+	+	+
Palpebral Closure								
Normal		+	+	+	+	+	+	+
Pupil Size								
Normal		+	+	+	+	+	+	+
Pupil Response								
Not Observed		+	+	+	+	+	+	+
Lacrimation								
Not Observed		+	+	+	+	+	+	+
Salivation								
Not Observed		+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:20

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3009	BF3010	BF3012
Stains								
Not Observed		+	+	+	-	+	+	+
Nasal	1 R	-	-	-	+	-	-	-
Other								
Not Observed		+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS								
Piloerection								
Not Observed		+	+	+	+	+	+	+
Respiratory Abnormalities								
Not Observed		+	+	+	+	+	+	+
Posture								
Standing Normally		+	+	+	+	+	+	+
Involuntary Motor Clonic								
Not Observed		+	+	+	+	+	+	+
Involuntary Motor Tonic								
Not Observed		+	+	+	+	+	+	+
Stereotypy								
Not Observed		+	+	+	+	+	+	+
Bizarre Behavior								
Not Observed		+	+	+	+	+	+	+
Gait Abnormalities								
Not Observed		+	+	+	+	+	+	+
Vocalizations								
Not Observed		+	+	+	+	+	+	+
Arousal								
Normal		-	+	+	+	+	-	-
Sluggish - Some Movement		+	-	-	-	-	+	+
Rearing		0	3	5	6	1	0	0
Defecation		1	0	1	0	4	4	0
Urination		1	1	1	0	1	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:20

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3009	BF3010	BF3012
REFLEX / PHYSIOLOGIC OBSERVATIONS								
Approach Response								
No Reaction		+	-	-	-	-	+	-
Slight Reaction		-	+	+	+	+	-	+
Touch Response								
Slight Reaction		+	+	+	+	+	+	+
Auditory Response								
Slight Reaction		+	+	+	+	+	+	+
Tail Pinch Response								
Slight Reaction		+	+	+	+	+	+	+
Righting Reflex								
Normal Landing		+	+	+	+	+	+	+
Grip Strength (kg)								
Forelimb - Test 1		.87	.84	.84	.92	.87	.75	.77
Hindlimb - Test 1		.30	.33	.24	.37	.29	.23	.25
Forelimb - Test 2		.74	.73	.66	.87	.77	.69	.64
Hindlimb - Test 2		.29	.24	.23	.34	.33	.26	.23
Landing Foot Splay (mm)								
Test 1		66	58	72	77	63	65	54
Test 2		51	53	81	79	71	42	60
Test 3		50	62	81	64	63	48	47
Body Weight (g)		210	223	226	232	211	193	200
Body Temperature (C)		37.8	38.1	38.4	38.5	38.2	37.8	38

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:20

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	-	-	-	+	-	+	+	-	-
Sitting/Lying Normally		+	+	+	+	+	+	-	+	-	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:21

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Male Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		-	+	-	+	+	-	-	-	+	+	+	-
Sluggish - Some Movement		+	-	+	-	-	+	+	+	-	-	-	+
Rearing		0	3	0	2	0	0	0	1	8	0	3	0
Defecation		0	0	0	0	0	0	6	0	0	1	0	3
Urination		0	0	0	0	0	0	1	0	0	0	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:21

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG [redacted] Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0001	BF0002	BF0003	BF0004	BF0005	BF0006	BF0007	BF0008	BF0009	BF0010	BF0011	BF0012
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	-	-	-	+	+	+	-	-
Slight Reaction		+	+	+	+	+	+	+	-	-	-	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.84	.87	.93	.79	.86	.93	.74	.87	.89	.76	.83	.78
Hindlimb - Test 1		.28	.24	.31	.26	.32	.25	.24	.33	.29	.25	.39	.29
Forelimb - Test 2		.81	.77	.79	.78	.90	.78	.78	.82	.88	.76	.82	.71
Hindlimb - Test 2		.25	.23	.27	.26	.39	.39	.29	.31	.22	.29	.27	.42
Landing Foot Splay (mm)													
Test 1		65	60	56	38	64	85	58	68	63	65	54	52
Test 2		57	53	60	55	86	48	46	59	57	59	55	49
Test 3		54	67	55	62	87	68	66	52	59	60	48	68
Body Weight (g)		217	240	242	216	249	250	212	255	236	214	244	242
Body Temperature (C)		37.8	38.3	37.6	36.7	37.8	37.4	38.3	37.8	38.8	38.1	37.4	37.3

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:21

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Male Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		+	-	-	-	-	-	-	-	+	+	-	-
Rearing		-	-	-	-	-	-	+	-	-	-	-	-
Sitting/Lying Normally		-	+	+	+	+	+	-	+	-	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:21

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG [redacted] Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	-	-	-	-	-	+	+	+	+	-	-
Sluggish - Some Movement		-	+	+	+	+	+	-	-	-	-	+	+
Rearing		5	0	0	0	0	0	7	5	2	5	0	0
Defecation		0	1	3	0	0	5	0	3	4	3	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

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Date: 24AUG95
Time: 8:08:21

Appendix V
Functional Observational Battery [redacted] ECHNICAL
Individual Animal Data for 20 MG/KG [redacted] Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1001	BF1002	BF1003	BF1004	BF1005	BF1006	BF1007	BF1008	BF1009	BF1010	BF1011	BF1012
Urination		0	0	1	0	0	1	2	1	1	1	1	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	-	+	-	-	-	-	-	-
Slight Reaction		+	+	+	+	+	-	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.94	.93	.92	.88	.88	.81	.91	.89	.92	.79	1.08	.83
Hindlimb - Test 1		.34	.24	.24	.37	.26	.25	.44	.29	.39	.35	.24	.31
Forelimb - Test 2		.83	.86	.85	.66	.90	.81	.75	.74	.85	.75	1.05	.78
Hindlimb - Test 2		.35	.37	.29	.35	.27	.27	.39	.31	.27	.31	.21	.27
Landing Foot Splay (mm)													
Test 1		58	77	68	68	47	40	50	69	68	92	64	72
Test 2		65	60	58	71	40	53	63	53	74	72	53	61
Test 3		68	45	68	62	50	55	65	83	78	70	49	60
Body Weight (g)		224	213	248	231	223	244	237	247	243	210	238	228
Body Temperature (C)		37.9	37.9	37.8	37.5	37.7	38.1	38.6	37.5	37.5	38.8	38.1	37.6

Nominal Day 0 - 26SEP94
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:21

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 150 MG/KG [redacted]e Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	-	+	-	-	+	-	-	-	-	-
Rearing		-	-	-	-	-	-	-	-	-	+	-	-
Sitting/Lying Normally		+	-	+	-	+	+	-	+	+	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:22

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 150 MG/KG Group Male Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	-	+	+	-	-	+	-	+	+	-	-
Sluggish - Some Movement		-	+	-	-	+	+	-	+	-	-	+	+
Rearing		0	0	0	7	0	0	3	0	2	2	0	0
Defecation		0	5	0	1	0	1	0	0	1	0	0	1

Nominal Day 0 - 26SEP94
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:22

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 150 MG/KG [redacted] Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2001	BF2002	BF2003	BF2004	BF2005	BF2006	BF2007	BF2008	BF2009	BF2010	BF2011	BF2012
Urination		0	1	0	0	0	1	2	0	1	0	0	1
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	-	-	-	-	-	-	-	+
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	-
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.86	.85	.90	.89	1.07	.88	.74	.78	.76	.81	.68	.72
Hindlimb - Test 1		.21	.33	.28	.27	.29	.28	.37	.27	.36	.19	.24	.30
Forelimb - Test 2		.84	.79	.85	.88	1.06	.88	.56	.77	.77	.78	.94	.74
Hindlimb - Test 2		.30	.30	.39	.33	.25	.28	.19	.29	.27	.19	.20	.24
Landing Foot Splay (mm)													
Test 1		49	75	65	81	38	74	67	62	77	89	49	77
Test 2		48	45	73	67	47	68	64	55	63	62	46	57
Test 3		57	67	72	81	53	69	53	66	69	55	65	58
Body Weight (g)		208	247	245	232	245	254	221	261	236	220	240	232
Body Temperature (C)		37.4	37.7	37.7	38.5	37.1	37.2	38	37.6	37.8	38.4	37.7	38.1

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:22

Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 600 MG/KG [redacted] Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3009	BF3010	BF3012
HOME CAGE OBSERVATIONS								
Posture								
Standing Normally		+	+	+	-	-	-	-
Sitting/Lying Normally		-	-	-	+	+	+	+
Piloerection								
Not Observed		+	+	+	+	+	+	+
Gait Abnormalities								
Not Observed		+	+	+	+	+	+	+
Involuntary Motor Clonic								
Not Observed		+	+	+	+	+	+	+
Involuntary Motor Tonic								
Not Observed		+	+	+	+	+	+	+
Vocalizations								
Not Observed		+	+	+	+	+	+	+
Other								
Not Observed		+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING								
Ease of Removal								
Minimal Resistance		+	+	+	+	+	+	+
Reaction Handled								
Minimal Resistance		+	+	+	+	+	+	+
Muscle Tone								
Normal		+	+	+	+	+	+	+
Palpebral Closure								
Normal		+	+	+	+	+	+	+
Pupil Size								
Normal		+	+	+	+	+	+	+
Pupil Response								
Not Observed		+	+	+	+	+	+	+
Lacrimation								
Not Observed		+	+	+	+	+	+	+
Salivation								
Not Observed		+	+	+	+	+	+	+

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:22

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG Group Male Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3009	BF3010	BF3012
Stains								
Not Observed		+	+	+	+	+	+	+
Other								
Not Observed		+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS								
Piloerection								
Not Observed		+	+	+	+	+	+	+
Respiratory Abnormalities								
Not Observed		+	+	+	+	+	+	+
Posture								
Standing Normally		+	+	+	+	+	+	+
Involuntary Motor Clonic								
Not Observed		+	+	+	+	+	+	+
Involuntary Motor Tonic								
Not Observed		+	+	+	+	+	+	+
Stereotypy								
Not Observed		+	+	+	+	+	+	+
Bizarre Behavior								
Not Observed		+	+	+	+	+	+	+
Gait Abnormalities								
Not Observed		+	+	+	+	+	+	+
Vocalizations								
Not Observed		+	+	+	+	+	+	+
Arousal								
Normal		-	+	+	+	-	-	-
Sluggish - Some Movement		+	-	-	-	+	+	+
Rearing		0	10	3	9	0	0	0
Defecation		0	0	0	0	1	0	0
Urination		0	1	1	1	1	0	0

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 24AUG95
Time: 8:08:22

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 600 MG/KG [redacted] Male Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3001	BF3002	BF3003	BF3004	BF3009	BF3010	BF3012
REFLEX / PHYSIOLOGIC OBSERVATIONS								
Approach Response								
Slight Reaction		+	+	+	+	+	+	+
Touch Response								
Slight Reaction		+	+	+	+	+	+	+
Auditory Response								
Slight Reaction		+	+	+	+	+	+	+
Tail Pinch Response								
Slight Reaction		+	+	+	+	+	+	+
Righting Reflex								
Normal Landing		+	+	+	+	+	+	+
Grip Strength (kg)								
Forelimb - Test 1		.88	.74	.90	.98	.76	.68	.78
Hindlimb - Test 1		.24	.40	.29	.38	.27	.45	.31
Forelimb - Test 2		.83	.90	.90	1.05	.68	.80	.82
Hindlimb - Test 2		.27	.27	.29	.22	.25	.47	.26
Landing Foot Splay (mm)								
Test 1		53	76	67	64	67	52	67
Test 2		48	70	69	49	58	42	57
Test 3		54	75	67	64	72	54	62
Body Weight (g)		228	250	248	248	248	220	228
Body Temperature (C)		38	38	38.5	38.2	37.5	37.5	37.1

Nominal Day 0 - 26SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:36

Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 0 MG/KG G[redacted]e Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		+	-	-	+	-	-	-	-	-	+	+	-
Sitting/Lying Normally		-	+	+	-	+	+	+	+	+	-	-	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:36

Appendix V [redacted]
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		6	5	8	11	12	12	7	7	4	9	8	8
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		0	1	1	0	0	1	0	0	0	0	0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:36

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	+	-	+	-	-	-	-	-
Slight Reaction		+	+	+	+	-	+	-	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.66	.67	.39	.61	.45	.52	.51	.43	.60	.40	.44	.52
Hindlimb - Test 1		.19	.20	.14	.22	.12	.15	.19	.15	.19	.15	.20	.16
Forelimb - Test 2		.73	.52	.49	.55	.51	.58	.50	.48	.64	.55	.54	.63
Hindlimb - Test 2		.21	.19	.15	.22	.13	.15	.24	.15	.17	.15	.16	.19
Landing Foot Splay (mm)													
Test 1		63	45	37	43	43	67	64	30	44	58	47	33
Test 2		65	40	32	47	49	47	47	42	48	38	58	40
Test 3		65	40	32	60	63	68	60	67	64	37	62	53
Body Weight (g)		142	132	129	134	123	129	130	124	146	131	127	138
Body Temperature (C)		38.7	38.2	37.6	38.8	37.6	37.5	37.5	38.7	37.4	38.1	38.3	38

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:36

Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 20 MG/KG [redacted]le Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	-	-	-	+	-	+	-	-	-
Rearing		-	-	-	-	-	-	-	-	-	+	-	-
Sitting/Lying Normally		+	+	+	+	+	+	-	+	-	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:36

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		10	8	8	6	10	10	4	5	9	9	7	10
Defecation		0	0	0	0	0	0	1	0	0	0	0	0

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:37

Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
Urination		1	0	0	1	0	0	0	0	0	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.58	.76	.48	.51	.37	.60	.60	.53	.54	.71	.70	.49
Hindlimb - Test 1		.29	.18	.18	.21	.15	.17	.14	.16	.32	.22	.19	.24
Forelimb - Test 2		.68	.67	.34	.59	.38	.58	.52	.54	.52	.52	.77	.70
Hindlimb - Test 2		.22	.24	.17	.18	.18	.17	.16	.16	.23	.15	.24	.22
Landing Foot Splay (mm)													
Test 1		40	63	53	51	34	65	48	53	47	49	57	62
Test 2		50	59	47	40	38	80	50	47	61	39	39	78
Test 3		54	67	50	43	42	65	55	68	58	46	43	53
Body Weight (g)		138	135	135	126	117	123	136	124	149	134	129	131
Body Temperature (C)		37.7	39.1	37.5	38	37.6	37.8	38.8	38.6	38.7	38.9	37.5	38.4

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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:37

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		+	+	-	+	-	+	+	-	-	-	-	+
Sitting/Lying Normally		-	-	+	-	+	-	-	+	+	+	+	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	-	+	+	+	+	+
Min. Resistance/Vocaliz.		-	-	-	-	-	-	+	-	-	-	-	-
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:37

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing													
		10	6	4	5	14	18	4	9	8	8	11	9
Defecation													
		0	0	0	0	0	0	0	0	0	0	0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:37

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Urination		0	0	1	0	0	0	1	1	0	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.59	.53	.54	.39	.57	.50	.81	.60	.43	.51	.44	.46
Hindlimb - Test 1		.15	.20	.24	.11	.20	.16	.28	.15	.24	.15	.12	.25
Forelimb - Test 2		.37	.58	.54	.37	.55	.54	.74	.54	.61	.46	.45	.59
Hindlimb - Test 2		.16	.28	.27	.15	.18	.15	.22	.21	.23	.14	.10	.20
Landing Foot Splay (mm)													
Test 1		48	43	51	53	52	66	47	39	70	39	45	37
Test 2		45	46	77	41	54	68	35	37	53	46	42	55
Test 3		44	47	67	37	50	65	31	38	83	44	49	55
Body Weight (g)		137	128	137	120	126	131	136	128	141	125	133	138
Body Temperature (C)		39.2	38	36.8	38.5	38	39.4	39.1	38.7	36.7	37.7	38.1	38.2

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:37

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3103	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		+	-	-	-	-	+	-	-	-	-	-	+
Rearing		-	+	-	-	-	-	-	-	-	-	-	-
Sitting/Lying Normally		-	-	+	+	+	-	+	+	+	+	+	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:37

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3103	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		7	10	8	9	10	11	10	11	7	5	8	10
Defecation		0	0	0	0	0	0	0	0	0	4	0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:38

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY Pretreatment
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3103	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Urination		0	0	0	0	2	0	1	0	1	1	0	1
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	-	-	-	-	+	-	-	-
Slight Reaction		+	+	+	+	+	+	+	+	-	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.66	.52	.41	.28	.41	.62	.54	.52	.59	.59	.42	.64
Hindlimb - Test 1		.22	.14	.20	.12	.13	.21	.19	.14	.17	.29	.17	.25
Forelimb - Test 2		.53	.39	.59	.43	.31	.51	.57	.49	.56	.58	.46	.57
Hindlimb - Test 2		.20	.18	.13	.12	.12	.21	.17	.12	.21	.15	.20	.26
Landing Foot Splay (mm)													
Test 1		45	53	62	37	45	52	53	52	55	47	43	30
Test 2		47	46	48	45	40	65	63	60	50	37	67	50
Test 3		52	68	51	32	58	78	56	52	51	61	79	48
Body Weight (g)		133	127	134	116	128	141	115	122	134	131	135	144
Body Temperature (C)		38.1	38.5	37.6	37.2	38.2	38.7	37.1	38.3	38.5	37.4	38.5	38.9

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:38

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group [redacted]le Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	-	-	-	-	-	+	-	-	-	-
Rearing		-	-	+	-	+	-	-	-	-	-	-	-
Sitting/Lying Normally		+	-	-	+	-	+	+	-	+	+	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:38

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG [redacted] Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		-	+	+	+	+	+	+	+	+	+	+	+
Sluggish - Some Movement		+	-	-	-	-	-	-	-	-	-	-	-
Rearing													
		0	5	6	3	8	1	1	17	2	4	0	2
Other													
	ptosis	-	-	-	-	-	-	-	-	-	-	-	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:38

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		0	0	0	1	0	0	0	0	0	0	1	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		+	-	-	-	-	+	+	-	+	-	-	-
Slight Reaction		-	+	+	+	+	-	-	+	-	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.79	.44	.67	.64	.68	.66	.75	.44	.76	.59	.75	.63
Hindlimb - Test 1		.22	.18	.32	.31	.23	.17	.15	.24	.21	.20	.21	.20
Forelimb - Test 2		.74	.69	.73	.67	.58	.61	.79	.53	.52	.73	.76	.70
Hindlimb - Test 2		.15	.13	.23	.30	.24	.21	.17	.17	.20	.23	.24	.20
Landing Foot Splay (mm)													
Test 1		47	45	37	83	57	51	48	43	68	45	57	60
Test 2		45	45	49	86	61	58	51	65	43	37	44	49
Test 3		47	48	58	53	56	38	54	73	50	42	49	55
Body Weight (g)		129	122	119	115	115	116	122	120	136	122	121	136
Body Temperature (C)		36.3	37.4	38	36.9	38.7	37	36.1	38.8	36.5	36.2	36.4	36

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:38

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group [redacted]le Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	-	-	-	-	-	-	+	-	-
Rearing		-	-	+	-	-	-	-	-	-	-	-	-
Sitting/Lying Normally		+	+	-	+	+	+	+	+	+	-	+	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	-	+	+	+	+	+	+	+
Other	ptosis	-	-	-	-	+	-	-	-	-	-	-	-
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:38

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	-	+	-	+	+	+	+	+
Sluggish - Some Movement		-	-	-	-	+	-	+	-	-	-	-	-
Rearing													
		4	5	10	3	1	7	0	7	4	4	7	9
Defecation													
		0	0	0	0	0	0	0	0	0	0	0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:39

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
Urination		1	0	0	0	0	0	0	0	0	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	-	-	+	-	+	-	-	-
Slight Reaction		+	+	+	+	+	+	-	+	-	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.68	.85	.63	.60	.66	.72	.74	.66	.66	.74	.67	.77
Hindlimb - Test 1		.26	.24	.23	.24	.21	.19	.25	.26	.30	.15	.17	.29
Forelimb - Test 2		.69	.83	.65	.62	.63	.76	.76	.66	.76	.59	.71	.83
Hindlimb - Test 2		.27	.29	.25	.22	.18	.18	.22	.16	.22	.21	.22	.25
Landing Foot Splay (mm)													
Test 1		37	68	55	53	48	45	53	35	51	46	53	66
Test 2		43	65	57	63	63	38	50	87	57	48	43	61
Test 3		57	75	53	61	65	53	62	49	55	37	38	67
Body Weight (g)		123	122	126	120	112	114	122	120	140	129	121	122
Body Temperature (C)		36.3	37	37.7	37	37	37.4	36.7	37	37.1	37.5	37.6	37.3

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:39

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	-	-	-	-	-	-	-	-	+	-
Sitting/Lying Normally		+	-	+	+	+	+	+	+	+	+	-	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		-	-	-	-	+	-	+	-	-	-	+	-
Other	ptosis	+	+	+	+	-	+	-	+	+	+	-	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	-	+	+	+	+	+	+	+	+	+	+
Min. Resistance/Vocaliz.		-	+	-	-	-	-	-	-	-	-	-	-
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	-	+	+
Half-Closed		-	-	-	-	-	-	-	-	-	+	-	-
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:39

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	-	+	+	+	+	+	+	-	-	+
Nasal	1 R	-	-	+	-	-	-	-	-	-	-	+	-
Oral	1 R	-	-	+	-	-	-	-	-	-	+	+	-
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing													
		2	3	1	3	4	2	1	2	3	4	3	3
Other													
	ptosis	-	-	+	+	-	-	-	+	+	-	+	+

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:39

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		0	0	1	0	0	0	0	0	0	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		+	-	-	-	-	+	-	-	-	+	-	-
Slight Reaction		-	+	+	+	+	-	+	+	+	-	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	-	+	-	+	+	+	+	+	+
Slightly Uncoordinated		-	-	-	+	-	+	-	-	-	-	-	-
Grip Strength (kg)													
Forelimb - Test 1		.51	.74	.81	.69	.78	.72	.84	.54	.82	.73	.77	.73
Hindlimb - Test 1		.16	.21	.18	.22	.21	.32	.18	.29	.30	.11	.27	.21
Forelimb - Test 2		.44	.73	.77	.64	.73	.73	.93	.68	.78	.57	.80	.68
Hindlimb - Test 2		.13	.19	.17	.19	.20	.19	.18	.31	.29	.18	.24	.21
Landing Foot Splay (mm)													
Test 1		51	46	64	45	46	39	33	37	49	25	33	45
Test 2		56	44	60	53	33	50	30	38	35	29	33	35
Test 3		58	55	50	41	47	52	41	30	26	53	47	42
Body Weight (g)		128	117	129	115	113	122	121	119	134	115	124	131
Body Temperature (C)		35.2	36.5	35.4	35.6	36.5	36.8	35.8	36.1	36.7	36.7	36.2	35.9

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:39

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG [redacted] Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3103	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	+	-	-	-	-	-	-	-	-	-
Sitting/Lying Normally		-	+	-	+	+	+	+	+	+	+	+	+
Other sitting on haunches with repetitive forepaw movements		+	-	-	-	-	-	-	-	-	-	-	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		-	+	+	+	+	+	+	+	+	+	+	+
Incoordination	1	+	-	-	-	-	-	-	-	-	-	-	-
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Decreased Activity		-	+	-	-	-	-	-	-	-	-	-	-
Other	ptosis	+	+	+	+	+	+	+	+	+	+	+	+
repetitive forepaw movement		+	-	-	-	-	-	-	-	-	-	-	-
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		-	+	+	+	+	+	+	+	+	+	+	+
Avoiding Hand		+	-	-	-	-	-	-	-	-	-	-	-
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		-	+	+	+	+	+	+	+	+	+	+	+
Rigid		+	-	-	-	-	-	-	-	-	-	-	-
Palpebral Closure													
Half-Closed		-	+	+	+	+	+	+	+	+	+	+	+
Completely Closed		+	-	-	-	-	-	-	-	-	-	-	-
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:39

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3103	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	-	+	-	-	+	-	+	-	+	+	-
	1 C	-	+	-	+	+	-	+	-	+	-	-	+
Salivation													
Not Observed		-	-	-	+	-	+	-	+	-	-	+	-
	1 C	+	+	+	-	+	-	-	-	+	+	-	+
	1 R	-	-	-	-	-	-	+	-	-	-	-	-
Stains													
Nasal	1 C	+	+	+	+	+	-	-	+	+	+	-	+
	1 R	-	-	-	-	-	+	+	-	-	-	-	-
Oral	1 C	-	-	-	+	-	-	-	-	-	-	+	-
Perianal	1 B	-	-	-	-	-	-	+	-	-	-	-	-
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		-	+	+	+	+	+	+	+	+	+	+	+
Other		+	-	-	-	-	-	-	-	-	-	-	-
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		-	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
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Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3103	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Gait Abnormalities (continued)													
Incoordination	1	+	-	-	-	-	-	-	-	-	-	-	-
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		-	-	+	-	+	+	-	-	+	-	+	+
Sluggish - Min. Movement		+	-	-	-	-	-	-	-	-	-	-	-
Sluggish - Some Movement		-	+	-	+	-	-	+	+	-	+	-	-
Rearing		4	1	0	1	2	1	0	1	1	0	4	1
Other													
	ptosis	+	+	+	+	+	-	+	+	+	+	+	+
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		0	1	1	1	1	1	1	1	1	1	1	1
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		+	+	+	+	+	+	+	+	-	+	+	+
Slight Reaction		-	-	-	-	-	-	-	-	+	-	-	-
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		-	+	+	+	+	+	+	+	+	-	-	-
Slightly Uncoordinated		-	-	-	-	-	-	-	-	-	+	+	-
Landing on Side		+	-	-	-	-	-	-	-	-	-	-	+
Grip Strength (kg)													
Forelimb - Test 1		.32	.44	.83	.75	.45	.69	.78	.68	.54	.78	.84	.75
Hindlimb - Test 1		.17	.24	.20	.21	.23	.17	.21	.14	.18	.18	.18	.17
Forelimb - Test 2		NP	.42	.78	.64	.64	.66	.66	.66	.52	.64	.81	.73

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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:40

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 0
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3103	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Hindlimb - Test 2		.11	.20	.28	.15	.12	.19	.21	.22	.22	.12	.20	.21
Landing Foot Splay (mm)													
Test 1		45	54	47	52	55	47	67	60	47	51	52	24
Test 2		56	55	48	43	70	60	53	57	59	65	58	35
Test 3		52	64	57	66	56	67	43	59	54	68	61	51
Body Weight (g)		122	117	127	110	123	130	111	114	128	121	129	134
Body Temperature (C)		32.4	33.5	35.7	34.9	34.7	35.7	33.9	35.2	33.9	34	35.5	34.1

Nominal Day 0 - 28SEP94
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:40

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	-	+	+	-	+	+	-	+	+	-
Sitting/Lying Normally		+	-	+	-	-	+	-	-	+	-	-	+
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:40

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		-	+	+	+	+	+	+	+	+	+	+	+
Sluggish - Some Movement		+	-	-	-	-	-	-	-	-	-	-	-
Rearing		0	7	4	5	7	3	5	17	2	5	13	5
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		0	0	0	1	0	0	0	0	0	0	0	1

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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:40

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.79	.64	.67	.75	.68	.67	.78	.64	.64	.71	.75	.75
Hindlimb - Test 1		.35	.30	.20	.28	.26	.29	.24	.24	.23	.22	.23	.23
Forelimb - Test 2		.80	.71	.72	.70	.58	.68	.69	.53	.64	.56	.75	.77
Hindlimb - Test 2		.35	.34	.25	.30	.28	.21	.28	.29	.22	.15	.23	.28
Landing Foot Splay (mm)													
Test 1		42	64	44	43	46	42	64	54	57	62	53	53
Test 2		44	53	33	57	50	62	58	54	35	41	43	49
Test 3		36	48	38	54	52	48	59	53	38	38	65	55
Body Weight (g)		153	151	147	153	146	146	145	154	160	144	139	158
Body Temperature (C)		38.1	39	37.1	38.2	38.5	37.6	38.4	38.8	36.9	38	38.6	37.6

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:40

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	-	+	-	-	+	-	-	-	-	+
Rearing		-	-	-	-	-	-	-	-	-	+	-	-
Sitting/Lying Normally		+	-	+	-	+	+	-	+	+	-	+	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:41

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		1	10	3	3	1	3	2	3	7	9	4	7
Defecation		0	0	0	0	0	0	0	0	0	0	0	0

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Time: 11:21:41

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
Urination		0	0	0	0	0	0	0	0	0	0	0	3
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	-	-	-	-	+	-	-	-
Slight Reaction		+	+	+	+	+	+	+	+	-	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.70	.94	.53	.81	.65	.79	.64	.70	.86	.65	.84	.91
Hindlimb - Test 1		.32	.34	.29	.32	.27	.31	.31	.27	.24	.28	.23	.39
Forelimb - Test 2		.70	.80	.57	.83	.66	.66	.66	.64	.86	.64	.84	.79
Hindlimb - Test 2		.30	.30	.20	.32	.19	.23	.31	.26	.27	.27	.22	.32
Landing Foot Splay (mm)													
Test 1		48	51	47	54	35	60	46	44	52	38	53	53
Test 2		52	45	48	54	30	57	54	45	28	45	41	57
Test 3		58	55	51	58	64	56	46	57	34	47	48	51
Body Weight (g)		148	147	157	141	139	141	150	145	162	157	154	147
Body Temperature (C)		37.3	39	37.6	38.2	36.9	37.5	38.4	37.4	37.4	38.8	37.2	38.3

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:41

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	-	+	+	+	+	-	-	-	-
Rearing		+	-	-	-	-	-	-	-	-	-	+	+
Sitting/Lying Normally		-	+	+	+	-	-	-	-	+	+	-	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:41

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	-	+	+	+	+	+
Urine	1 Y	-	-	-	-	-	-	+	-	-	-	-	-
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	-	+	+	+	+	+	+	+	+	+
Sluggish - Some Movement		-	-	+	-	-	-	-	-	-	-	-	-
Rearing		7	3	0	5	9	10	6	7	2	3	11	6
Defecation		0	0	0	0	0	0	0	0	0	0	0	0

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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:41

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Urination		0	0	1	0	0	0	0	0	0	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
No Reaction		-	-	-	-	-	-	+	-	-	-	-	+
Slight Reaction		+	+	+	+	+	+	-	+	+	+	+	-
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		-	+	+	+	+	+	+	+	+	+	+	+
Slightly Uncoordinated		+	-	-	-	-	-	-	-	-	-	-	-
Grip Strength (kg)													
Forelimb - Test 1		.69	.68	.70	.46	.80	.85	.86	.47	.79	.63	.67	.78
Hindlimb - Test 1		.18	.30	.24	.23	.26	.33	.20	.33	.25	.16	.27	.33
Forelimb - Test 2		.64	.51	.78	.51	.71	.78	.78	.65	.77	.67	.67	.79
Hindlimb - Test 2		.15	.22	.18	.21	.36	.33	.21	.34	.34	.12	.31	.32
Landing Foot Splay (mm)													
Test 1		64	25	68	53	44	65	37	48	74	43	67	63
Test 2		50	50	67	50	23	58	25	50	61	43	77	46
Test 3		63	52	65	63	32	61	37	58	67	41	70	40
Body Weight (g)		157	144	155	151	138	151	151	149	159	132	146	154
Body Temperature (C)		39	37.7	37.1	37.2	38.5	38.9	38.5	39	38.2	37.2	38.4	38.7

Nominal Day 0 - 28SEP94
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+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:42

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
HOME CAGE OBSERVATIONS												
Posture												
Standing Normally		+	+	-	+	+	-	+	+	-	-	+
Rearing		-	-	-	-	-	-	-	-	+	-	-
Sitting/Lying Normally		-	-	+	-	-	+	-	-	-	+	-
Piloerection												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Vocalizations												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Other												
Not Observed		-	+	+	+	+	+	+	+	-	+	+
	tail lesions	+	-	-	-	-	-	-	-	+	-	-
OBSERVATIONS DURING HANDLING												
Ease of Removal												
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+
Reaction Handled												
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+
Muscle Tone												
Normal		+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure												
Normal		+	+	+	+	+	+	+	+	+	+	+
Pupil Size												
Normal		+	+	+	+	+	+	+	+	+	+	+
Pupil Response												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Lacrimation												
Not Observed		+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:42

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Salivation												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Stains												
Not Observed		-	+	+	+	-	+	+	+	-	+	+
Oral	1 R	+	-	-	-	-	-	-	-	-	-	-
Urine	1 Y	-	-	-	-	+	-	-	-	+	-	-
	2 Y	+	-	-	-	-	-	-	-	-	-	-
Other												
Not Observed		-	+	+	+	+	+	+	+	+	+	+
Other	forepaws stained	+	-	-	-	-	-	-	-	-	-	-
OPEN FIELD OBSERVATIONS												
Piloerection												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Posture												
Standing Normally		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Stereotypy												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Vocalizations												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Arousal												
Normal		+	-	+	+	+	+	+	+	+	+	+
Sluggish - Some Movement		-	+	-	-	-	-	-	-	-	-	-
Rearing		6	2	5	10	15	4	9	8	6	6	7

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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:42

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 7
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Defecation		0	0	0	0	0	0	0	0	0	0	0
Urination		0	0	0	0	1	0	0	1	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS												
Approach Response												
No Reaction		-	-	+	-	-	+	-	-	-	-	-
Slight Reaction		+	+	-	+	+	-	+	+	+	+	+
Touch Response												
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+
Auditory Response												
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response												
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+
Righting Reflex												
Normal Landing		+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)												
Forelimb - Test 1		.48	.57	.66	.65	.76	.58	.60	.57	.67	.79	.76
Hindlimb - Test 1		.15	.27	.24	.23	.42	.22	.22	.26	.31	.19	.23
Forelimb - Test 2		.49	.58	.59	.65	.73	.61	.64	.71	.71	.76	.73
Hindlimb - Test 2		.23	.25	.18	.18	.39	.21	.21	.21	.22	.19	.30
Landing Foot Splay (mm)												
Test 1		26	33	56	47	51	43	65	64	55	78	35
Test 2		53	45	50	57	38	29	49	53	45	54	29
Test 3		59	58	47	56	68	35	58	51	48	54	50
Body Weight (g)		125	145	143	147	157	136	141	155	150	156	159
Body Temperature (C)		37.7	37.2	37.8	38.4	38.6	36.9	38.6	39.3	37.9	37.5	38.9

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:42

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group [redacted] Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	-	-	+	-	-	-	+	+	-	+	+
Rearing		-	+	-	-	-	+	+	-	-	-	-	-
Sitting/Lying Normally		+	-	+	-	+	-	-	-	-	+	-	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:42

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		0	14	3	11	0	8	5	10	2	5	7	8
Defecation		0	0	0	0	0	0	0	0	0	0	0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:42

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 0 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF0101	BF0102	BF0103	BF0104	BF0105	BF0106	BF0107	BF0108	BF0109	BF0110	BF0111	BF0112
Urination		0	0	0	0	0	0	0	0	0	0	0	1
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.82	.79	.73	.78	.32	.67	.95	.74	.73	.48	.89	.77
Hindlimb - Test 1		.28	.38	.24	.35	.27	.21	.26	.29	.22	.21	.22	.33
Forelimb - Test 2		.81	.78	.81	.67	.34	.61	.89	.64	.75	.38	.69	.88
Hindlimb - Test 2		.27	.29	.31	.34	.23	.19	.22	.25	.28	.20	.23	.32
Landing Foot Splay (mm)													
Test 1		53	48	48	48	20	63	35	58	59	31	52	30
Test 2		53	44	47	39	39	43	37	54	45	48	55	47
Test 3		48	38	40	50	55	62	35	62	38	46	57	39
Body Weight (g)		166	152	153	160	155	158	159	166	163	152	151	170
Body Temperature (C)		38.1	39.5	37.3	38.2	36.9	38	38.6	38.4	37.1	37.4	38.3	38.1

Nominal Day 0 - 28SEP94
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:42

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		-	+	-	+	-	+	-	-	+	+	-	+
Sitting/Lying Normally		+	-	+	-	+	-	+	+	-	-	+	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
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BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:43

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	-	+	+	+	+	+	+	+	+	+
Sluggish - Some Movement		-	-	+	-	-	-	-	-	-	-	-	-
Rearing		4	8	0	5	8	4	1	3	6	8	10	7
Defecation		0	0	0	0	0	0	0	0	0	0	0	0
Urination		1	0	0	0	0	0	0	0	0	0	0	1

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:43

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 20 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF1101	BF1102	BF1103	BF1104	BF1105	BF1106	BF1107	BF1108	BF1109	BF1110	BF1111	BF1112
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.74	.94	.61	.86	.68	.78	.65	.48	.88	.72	.91	.83
Hindlimb - Test 1		.18	.26	.32	.30	.23	.37	.33	.25	.41	.28	.25	.24
Forelimb - Test 2		.89	.91	.57	.82	.66	.75	.68	.60	.74	.68	.88	.83
Hindlimb - Test 2		.36	.29	.25	.33	.27	.39	.37	.22	.21	.20	.29	.37
Landing Foot Splay (mm)													
Test 1		50	70	50	44	40	37	53	52	47	40	47	52
Test 2		60	67	37	43	56	33	51	47	50	45	47	49
Test 3		55	73	42	53	63	61	62	48	48	52	45	48
Body Weight (g)		152	155	164	146	149	152	160	157	170	166	165	157
Body Temperature (C)		37.5	38.6	37.2	38.6	38.5	38	38.2	36.8	38.7	39.1	37.7	38.5

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:43

Appendix V
Functional Observational Battery [redacted]ECHNICAL
Individual Animal Data for 100 MG/KG [redacted]le Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
HOME CAGE OBSERVATIONS													
Posture													
Standing Normally		+	-	-	-	+	-	+	+	+	-	-	+
Rearing		-	+	-	-	-	-	-	-	-	-	-	-
Sitting/Lying Normally		-	-	+	+	-	+	-	-	-	+	+	-
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OBSERVATIONS DURING HANDLING													
Ease of Removal													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Reaction Handled													
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+	+
Muscle Tone													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Size													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Pupil Response													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Lacrimation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:43

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Salivation													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stains													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Other													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS													
Piloerection													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Posture													
Standing Normally		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Stereotypy													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Vocalizations													
Not Observed		+	+	+	+	+	+	+	+	+	+	+	+
Arousal													
Normal		+	+	+	+	+	+	+	+	+	+	+	+
Rearing		6	6	3	3	9	4	1	6	3	0	3	6
Defecation		0	0	0	0	0	0	0	0	0	0	0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:43

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 100 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF2101	BF2102	BF2103	BF2104	BF2105	BF2106	BF2107	BF2108	BF2109	BF2110	BF2111	BF2112
Urination		0	0	0	0	0	0	0	0	0	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS													
Approach Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Touch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Auditory Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response													
Slight Reaction		+	+	+	+	+	+	+	+	+	+	+	+
Righting Reflex													
Normal Landing		+	+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)													
Forelimb - Test 1		.62	.78	.74	.68	.82	.77	.82	.72	.86	.61	.57	.74
Hindlimb - Test 1		.16	.31	.38	.26	.28	.35	.18	.32	.25	.19	.29	.27
Forelimb - Test 2		.34	.68	.74	.66	.83	.83	.80	.64	.72	.61	.58	.60
Hindlimb - Test 2		.18	.34	.24	.22	.19	.24	.17	.26	.31	.17	.27	.32
Landing Foot Splay (mm)													
Test 1		38	48	57	42	45	73	38	29	53	42	60	48
Test 2		50	51	52	64	43	54	28	40	67	37	35	46
Test 3		49	45	57	47	40	40	30	27	43	44	44	37
Body Weight (g)		164	153	168	162	148	163	162	162	165	138	157	160
Body Temperature (C)		38.6	37.9	37.6	36.9	37.1	37.6	38.9	38.5	38.2	37.1	37	38.7

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:43

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG [redacted] ale Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
HOME CAGE OBSERVATIONS												
Posture												
Standing Normally		+	-	+	-	+	+	+	-	-	-	-
Rearing		-	-	-	-	-	-	-	+	+	-	+
Sitting/Lying Normally		-	+	-	+	-	-	-	-	-	+	-
Piloerection												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Vocalizations												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Other												
Not Observed		-	+	+	+	+	+	+	+	-	+	+
	tail lesions	+	-	-	-	-	-	-	-	+	-	-
OBSERVATIONS DURING HANDLING												
Ease of Removal												
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+
Reaction Handled												
Minimal Resistance		+	+	+	+	+	+	+	+	+	+	+
Muscle Tone												
Normal		+	+	+	+	+	+	+	+	+	+	+
Palpebral Closure												
Normal		+	+	+	+	+	+	+	+	+	+	+
Pupil Size												
Normal		+	+	+	+	+	+	+	+	+	+	+
Pupil Response												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Lacrimation												
Not Observed		+	+	+	+	+	+	+	+	+	+	+

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:44

Appendix V
Functional Observational Battery - [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Salivation												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Stains												
Not Observed		-	+	+	+	+	+	+	+	-	+	+
Urine	1 Y	+	-	-	-	-	-	-	-	+	-	-
Other												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
OPEN FIELD OBSERVATIONS												
Piloerection												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Respiratory Abnormalities												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Posture												
Standing Normally		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Clonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Involuntary Motor Tonic												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Stereotypy												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Bizarre Behavior												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Gait Abnormalities												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Vocalizations												
Not Observed		+	+	+	+	+	+	+	+	+	+	+
Arousal												
Normal		+	+	+	+	+	+	+	+	+	+	+
Rearing		5	5	5	5	16	5	9	10	8	6	5
Defecation		0	0	0	0	0	0	0	0	0	0	0

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORP. - Agriculture Division, Toxicology

Date: 23AUG95
Time: 11:21:44

Appendix V
Functional Observational Battery [redacted] TECHNICAL
Individual Animal Data for 400 MG/KG Group Female Rats, DAY 14
Study Number 94-412-BF

Animal Id.	Severity/Color	BF3101	BF3102	BF3104	BF3105	BF3106	BF3107	BF3108	BF3109	BF3110	BF3111	BF3112
Urination		0	0	0	0	0	0	0	0	0	0	0
REFLEX / PHYSIOLOGIC OBSERVATIONS												
Approach Response Slight Reaction		+	+	+	+	+	+	+	+	+	+	+
Touch Response Slight Reaction		+	+	+	+	+	+	+	+	+	+	+
Auditory Response Slight Reaction		+	+	+	+	+	+	+	+	+	+	+
Tail Pinch Response Slight Reaction		+	+	+	+	+	+	+	+	+	+	+
Righting Reflex Normal Landing		+	+	+	+	+	+	+	+	+	+	+
Grip Strength (kg)												
Forelimb - Test 1		.66	.65	.80	.55	.64	.68	.69	.54	.81	.83	.72
Hindlimb - Test 1		.28	.20	.39	.31	.36	.21	.28	.26	.38	.28	.24
Forelimb - Test 2		.61	.62	.75	.59	.49	.60	.70	.43	.76	.85	.61
Hindlimb - Test 2		.23	.18	.24	.29	.33	.24	.25	.16	.26	.26	.28
Landing Foot Splay (mm)												
Test 1		47	53	47	59	54	52	55	58	47	48	53
Test 2		60	43	59	40	53	27	47	59	52	46	47
Test 3		57	63	62	45	57	55	62	63	59	51	47
Body Weight (g)		149	160	157	155	168	148	150	158	162	167	175
Body Temperature (C)		38.5	37.9	37.5	37.3	38.6	37.2	38.9	39.4	38.1	37.5	38.8

Nominal Day 0 - 28SEP94
1=Slight, 2=Moderate to Severe
C=Clear, R=Red, W=White, B=Brown, Y=Yellow, O=Other
+ = Applicable, - = Not Applicable

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:19

Appendix VI
[redacted] TECHNICAL
Individual Session Motor Activity for Group 0 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
0001	717	406	405	911
0002	498	115	504	482
0003	655	366	591	776
0004	654	557	767	1104
0005	517	219	628	599
0006	783	366	608	873
0007	887	464	726	960
0008	841	232	519	908
0009	527	201	553	661
0010	983	327	924	1356
0011	740	356	745	755
0012	490	230	506	328

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:19

Appendix VI
[redacted] TECHNICAL
Individual Session Motor Activity for Group 20 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
1001	846	242	613	997
1002	709	439	892	1113
1003	592	367	601	515
1004	697	356	586	697
1005	439	217	433	634
1006	853	285	631	381
1007	956	290	781	770
1008	472	186	541	489
1009	282	210	606	1169
1010	936	366	599	770
1011	562	337	815	517
1012	901	508	757	844

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:20

Appendix VI
[redacted]ECHNICAL
Individual Session Motor Activity for Group 150 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
2001	452	97	772	875
2002	671	23	661	633
2003	532	69	720	1179
2004	802	133	615	866
2005	536	227	853	710
2006	562	175	501	542
2007	559	190	607	725
2008	614	100	1023	608
2009	670	124	581	967
2010	732	229	704	614
2011	511	177	364	626
2012	859	145	579	597

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:20

[redacted]dix VI
[redacted]TECHNICAL
Individual Session Motor Activity for Group 600 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
3001	754	203	1092	1100
3002	434	1071	289	626
3003	719	330	431	392
3004	582	796	519	722
3005	416	42		
3006	600	339		
3007	323	29		
3008	631	591		
3009	742	230	190	428
3010	774	185	502	563
3011	988	61		
3012	1069	196	800	1119

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:57

Appendix VI
[redacted]TECHNICAL
Individual Session Motor Activity for Group 0 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
0101	1260	650	674	624
0102	994	304	1302	1052
0103	793	465	1167	1099
0104	918	243	853	790
0105	984	645	198	674
0106	224	695	1114	1356
0107	1127	536	918	1284
0108	1191	870	829	620
0109	823	453	101	542
0110	767	867	516	482
0111	749	364	675	1047
0112	658	499	1387	865

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:57

[redacted]dix VI
[redacted]TECHNICAL
Individual Session Motor Activity for Group 20 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
1101	834	483	742	161
1102	1196	491	1121	1299
1103	893	1451	807	693
1104	776	474	906	1108
1105	1010	406	945	934
1106	967	766	970	1600
1107	799	389	652	471
1108	890	619	998	869
1109	825	533	1330	934
1110	1029	420	860	476
1111	1121	1919	1071	1807
1112	934	469	785	1032

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:57

[redacted]dix VI
[redacted]ECHNICAL
Individual Session [redacted]ctivity for Group 100 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
2101	842	304	1015	739
2102	876	259	1348	875
2103	809	180	645	1029
2104	614	2217	996	963
2105	1002	184	668	383
2106	1502	343	1152	1201
2107	943	162	1041	972
2108	1314	209	743	1346
2109	704	212	1079	734
2110	778	239	1216	881
2111	861	546	1169	1206
2112	934	297	809	1289

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:57

[redacted]dix VI
[redacted]TECHNICAL
Individual Session Motor Activity for Group 400 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
3101	1055	1917	225	786
3102	1148	540	626	810
3103	975	759		
3104	852	160	1139	1266
3105	927	665	684	109
3106	980	526	1031	1202
3107	778	51	846	1499
3108	796	59	1026	1216
3109	904	114	1212	1471
3110	948	433	736	1361
3111	825	163	965	1311
3112	1222	279	1088	1066

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:20

Appendix VII
[redacted] TECHNICAL
Individual Session Locomotor Activity for Group 0 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
0001	234	144	134	358
0002	214	37	158	176
0003	241	127	175	281
0004	265	197	272	410
0005	237	97	253	274
0006	304	80	222	291
0007	403	152	261	310
0008	344	81	196	364
0009	187	85	180	235
0010	328	101	322	440
0011	225	108	238	249
0012	241	97	234	170

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:21

Appendix VII
[redacted]TECHNICAL
Individual Session Locomotor Activity for Group 20 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
1001	350	69	222	381
1002	281	182	350	397
1003	214	79	222	183
1004	295	117	213	234
1005	159	102	115	249
1006	355	89	221	155
1007	401	115	280	345
1008	154	65	173	168
1009	115	85	211	403
1010	323	73	158	261
1011	214	136	297	188
1012	300	175	297	321

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:21

Appendix VII
[redacted] TECHNICAL
Individual Session Locomotor Activity for Group 150 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
2001	200	34	298	383
2002	301	10	296	295
2003	263	18	259	433
2004	313	35	229	312
2005	224	82	328	332
2006	194	15	176	194
2007	268	55	228	300
2008	236	32	392	227
2009	239	27	210	361
2010	289	43	235	215
2011	197	51	149	183
2012	394	45	229	241

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:18:21

[redacted]ndix VII
[redacted]ECHNICAL
Individual Session Locomotor Activity for Group 600 MG/KG Male Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
3001	332	64	399	449
3002	173	28	122	219
3003	290	158	174	154
3004	198	309	144	290
3005	131	2		
3006	267	131		
3007	193	17		
3008	263	210		
3009	318	59	71	157
3010	277	52	173	213
3011	374	12		
3012	371	46	295	453

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:58

Appendix VII
[redacted]ECHNICAL
Individual Session Locomotor Activity for Group 0 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
0101	564	203	311	268
0102	354	89	430	428
0103	279	191	520	405
0104	387	67	295	272
0105	358	187	22	220
0106	81	195	369	482
0107	413	174	344	437
0108	444	335	274	242
0109	302	147	38	154
0110	238	270	155	153
0111	244	132	240	396
0112	277	162	514	272

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:58

[redacted]dix VII
[redacted]TECHNICAL
Individual Session Locomotor Activity for Group 20 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
1101	255	166	312	49
1102	513	135	433	535
1103	350	407	302	276
1104	276	153	301	388
1105	468	142	360	373
1106	388	224	351	570
1107	281	112	213	176
1108	288	194	320	268
1109	306	155	452	329
1110	369	91	324	171
1111	386	684	388	719
1112	369	104	334	370

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:58

[redacted]dix VII
[redacted]ECHNICAL
Individual Session [redacted]or Activity for Group 100 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
2101	304	91	370	261
2102	362	65	543	321
2103	252	42	192	375
2104	257	773	368	293
2105	383	67	256	145
2106	542	69	410	468
2107	364	39	370	298
2108	656	64	290	543
2109	252	58	402	229
2110	284	65	394	295
2111	301	106	331	392
2112	319	69	260	478

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:23:58

[redacted]dix VII
[redacted]ECHNICAL
Individual Session Locomotor Activity for Group 400 MG/KG Female Rats
Study Number 94-412-BF

Animal No.	Pretreatment	Day 0	Day 7	Day 14
3101	364	1	92	280
3102	442	236	209	251
3103	396	149		
3104	382	36	454	462
3105	307	204	223	32
3106	351	182	422	460
3107	335	35	449	626
3108	284	17	367	491
3109	360	49	473	608
3110	361	158	295	476
3111	296	39	356	522
3112	418	112	346	381

1:30:00 (hh:mm:ss) Test Session
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:47

[redacted]dix VIII
[redacted]ECHNICAL

Individual Interval Motor Activity for Group 0 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	235	205	112	53	94	5	1	10	2
0002	214	158	52	55	0	0	0	0	19
0003	320	203	47	81	0	0	4	0	0
0004	376	212	66	0	0	0	0	0	0
0005	223	160	101	33	0	0	0	0	0
0006	278	227	111	67	1	99	0	0	0
0007	316	251	163	127	30	0	0	0	0
0008	311	263	236	31	0	0	0	0	0
0009	229	121	90	23	0	64	0	0	0
0010	336	252	179	87	24	105	0	0	0
0011	293	238	111	98	0	0	0	0	0
0012	213	154	123	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:47

[redacted]ndix VIII
[redacted]TECHNICAL

Individual Interval Motor [redacted] for Group 20 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	280	254	206	54	52	0	0	0	0
1002	324	99	50	72	36	48	0	80	0
1003	235	270	83	0	0	0	4	0	0
1004	218	198	170	101	6	2	2	0	0
1005	262	112	52	13	0	0	0	0	0
1006	221	212	175	76	10	5	86	68	0
1007	365	203	123	50	87	0	0	0	128
1008	202	156	96	0	0	0	0	1	17
1009	206	76	0	0	0	0	0	0	0
1010	212	234	181	124	48	87	49	0	1
1011	274	229	59	0	0	0	0	0	0
1012	363	263	149	23	96	0	0	3	4

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:47

[redacted]dix VIII
[redacted]TECHNICAL
Individual Interval Motor Activity for Group 150 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	209	166	65	9	3	0	0	0	0
2002	284	198	117	42	21	2	0	7	0
2003	289	184	59	0	0	0	0	0	0
2004	316	269	175	42	0	0	0	0	0
2005	258	179	31	68	0	0	0	0	0
2006	214	201	103	42	0	2	0	0	0
2007	207	191	110	36	0	15	0	0	0
2008	262	245	107	0	0	0	0	0	0
2009	298	196	141	34	0	1	0	0	0
2010	348	228	156	0	0	0	0	0	0
2011	248	174	73	0	0	16	0	0	0
2012	378	313	168	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:47

[redacted]dix VIII
[redacted]ECHNICAL

Individual Interval Motor [redacted] for Group 600 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	255	223	158	65	53	0	0	0	0
3002	175	71	90	0	0	0	56	42	0
3003	214	174	111	100	30	78	1	0	11
3004	251	190	129	0	0	0	0	12	0
3005	234	130	20	0	0	0	32	0	0
3006	213	245	81	0	0	61	0	0	0
3007	190	133	0	0	0	0	0	0	0
3008	187	131	167	80	57	9	0	0	0
3009	290	233	63	125	17	0	2	0	12
3010	281	258	184	44	0	0	0	7	0
3011	280	243	225	137	103	0	0	0	0
3012	347	270	223	114	73	1	4	8	29

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:47

[redacted]dix VIII
[redacted]ECHNICAL

Individual Interval Motor [redacted] for Group 0 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	202	149	50	0	1	3	1	0	0
0002	86	20	0	0	0	0	9	0	0
0003	217	90	59	0	0	0	0	0	0
0004	311	140	41	54	2	3	3	0	3
0005	136	83	0	0	0	0	0	0	0
0006	254	26	40	0	0	0	2	27	17
0007	218	128	92	18	1	0	1	6	0
0008	155	65	5	0	0	0	0	5	2
0009	150	51	0	0	0	0	0	0	0
0010	170	124	33	0	0	0	0	0	0
0011	211	111	34	0	0	0	0	0	0
0012	161	69	0	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:47

[redacted]ndix VIII
[redacted] TECHNICAL
Individual Interval Motor Activity for Group 20 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	171	39	0	2	0	23	2	1	4
1002	231	124	51	33	0	0	0	0	0
1003	168	58	89	1	0	24	14	9	4
1004	188	141	10	0	0	17	0	0	0
1005	156	59	2	0	0	0	0	0	0
1006	205	67	9	1	0	0	3	0	0
1007	216	59	10	0	0	5	0	0	0
1008	136	50	0	0	0	0	0	0	0
1009	109	68	33	0	0	0	0	0	0
1010	139	64	132	20	3	3	1	4	0
1011	207	124	6	0	0	0	0	0	0
1012	228	88	114	24	43	5	6	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:48

Appendix VIII
[redacted] TECHNICAL
Individual Interval Motor Activity for Group 150 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	51	19	5	0	0	13	9	0	0
2002	23	0	0	0	0	0	0	0	0
2003	69	0	0	0	0	0	0	0	0
2004	84	12	16	0	0	21	0	0	0
2005	117	35	4	20	5	36	0	3	7
2006	90	28	6	2	3	45	0	1	0
2007	73	43	7	1	0	11	46	8	1
2008	57	10	0	11	0	4	18	0	0
2009	86	24	0	0	0	0	0	0	14
2010	107	4	22	31	21	24	2	0	18
2011	110	34	1	11	0	0	0	0	21
2012	73	25	6	2	11	14	12	0	2

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:48

Appendix VIII
[redacted] TECHNICAL
Individual Interval Motor Activity for Group 600 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	123	29	12	3	14	0	16	4	2
3002	30	646	299	7	0	0	1	36	52
3003	111	79	80	25	12	10	10	3	0
3004	181	171	146	81	24	75	5	69	44
3005	42	0	0	0	0	0	0	0	0
3006	154	48	21	22	21	33	11	18	11
3007	1	0	0	0	3	25	0	0	0
3008	193	129	184	85	0	0	0	0	0
3009	25	0	20	43	3	37	21	40	41
3010	43	13	5	41	28	5	10	8	32
3011	8	1	0	0	0	3	17	21	11
3012	79	5	3	16	12	22	14	14	31

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:48

[redacted]ndix VIII
[redacted]TECHNICAL

Individual Interval Motor Activity for Group 0 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	256	146	3	0	0	0	0	0	0
0002	303	119	46	8	3	16	0	9	0
0003	301	198	83	0	0	0	0	0	9
0004	272	195	191	90	19	0	0	0	0
0005	300	266	62	0	0	0	0	0	0
0006	337	142	8	121	0	0	0	0	0
0007	189	140	161	74	133	18	0	11	0
0008	273	215	29	0	0	0	0	0	2
0009	245	150	158	0	0	0	0	0	0
0010	200	247	220	167	90	0	0	0	0
0011	291	200	112	68	16	0	0	0	58
0012	216	154	58	68	2	2	6	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:48

[redacted]dix VIII
[redacted]ECHNICAL

Individual Interval Motor Activity for Group 20 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	287	179	124	23	0	0	0	0	0
1002	296	248	177	92	35	0	42	0	2
1003	274	159	129	34	2	0	3	0	0
1004	221	197	108	18	0	0	4	7	31
1005	158	167	41	39	0	0	13	9	6
1006	228	235	113	31	6	9	9	0	0
1007	299	216	80	106	75	5	0	0	0
1008	251	155	97	37	0	0	0	1	0
1009	283	256	67	0	0	0	0	0	0
1010	213	146	138	100	1	0	1	0	0
1011	269	253	171	78	44	0	0	0	0
1012	263	162	132	145	55	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:48

[redacted]dix VIII
[redacted]ECHNICAL
Individual Interval Motor [redacted] for Group 150 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	226	197	219	39	81	0	2	5	3
2002	288	182	110	43	38	0	0	0	0
2003	262	212	164	75	4	0	0	3	0
2004	270	283	62	0	0	0	0	0	0
2005	276	295	143	128	11	0	0	0	0
2006	200	149	112	40	0	0	0	0	0
2007	208	214	20	164	0	1	0	0	0
2008	250	180	186	246	14	117	30	0	0
2009	288	255	31	3	4	0	0	0	0
2010	256	193	204	43	0	0	0	8	0
2011	194	152	10	8	0	0	0	0	0
2012	253	182	144	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:48

[redacted]dix VIII
[redacted]TECHNICAL

Individual Interval Motor [redacted] for Group 600 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	235	277	160	163	87	123	29	1	17
3002	150	72	46	21	0	0	0	0	0
3003	240	159	32	0	0	0	0	0	0
3004	199	167	68	82	0	0	0	0	3
3009	140	50	0	0	0	0	0	0	0
3010	228	179	91	4	0	0	0	0	0
3012	350	328	111	10	0	0	0	0	1

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:48

[redacted]ndix VIII
[redacted]TECHNICAL
Individual Interval Motor [redacted] for Group 0 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	310	202	225	149	13	12	0	0	0
0002	267	138	1	13	0	0	6	0	57
0003	218	194	184	129	36	0	0	8	7
0004	352	191	178	149	120	66	1	0	47
0005	232	148	87	61	31	23	17	0	0
0006	357	229	92	131	64	0	0	0	0
0007	309	210	126	96	42	57	95	22	3
0008	376	226	134	78	94	0	0	0	0
0009	298	213	76	0	29	45	0	0	0
0010	298	192	249	125	134	80	141	89	48
0011	259	190	159	64	78	5	0	0	0
0012	209	62	57	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:49

[redacted]odix VIII
[redacted]TECHNICAL
Individual Interval Motor [redacted]or Group 20 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	325	253	114	80	0	0	44	165	16
1002	322	280	137	112	90	131	6	0	35
1003	337	162	11	0	4	1	0	0	0
1004	268	183	211	35	0	0	0	0	0
1005	277	185	95	66	0	0	0	8	3
1006	266	88	5	2	0	15	5	0	0
1007	355	243	172	0	0	0	0	0	0
1008	307	146	14	9	6	0	6	0	1
1009	382	236	109	79	48	14	174	122	5
1010	247	175	167	101	58	13	9	0	0
1011	301	127	83	0	6	0	0	0	0
1012	338	222	163	102	19	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:49

[redacted]ndix VIII
[redacted]TECHNICAL
Individual Interval Motor [redacted]r Group 150 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	260	242	138	82	85	66	2	0	0
2002	278	173	101	77	4	0	0	0	0
2003	308	246	227	204	164	11	9	0	10
2004	290	233	179	61	7	0	0	0	96
2005	219	170	152	87	67	1	7	6	1
2006	203	143	98	50	3	2	27	2	14
2007	211	198	95	72	0	44	78	27	0
2008	213	152	117	90	34	1	0	1	0
2009	337	233	256	141	0	0	0	0	0
2010	268	241	70	28	0	0	0	7	0
2011	184	194	95	52	76	4	0	21	0
2012	250	172	170	5	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:49

[redacted]ndix VIII
[redacted]TECHNICAL
Individual Interval Motor Activity for Group 600 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	345	242	145	159	174	35	0	0	0
3002	181	149	87	64	18	0	1	125	1
3003	182	147	48	0	15	0	0	0	0
3004	324	173	132	41	40	2	5	1	4
3009	164	155	63	46	0	0	0	0	0
3010	188	128	103	67	5	39	33	0	0
3012	313	203	126	130	176	68	31	69	3

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP9

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:48

[redacted]dix VIII
[redacted]ECHNICAL
Individual Interval Motor [redacted] for Group 0 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	303	244	242	283	157	28	0	0	3
0102	288	269	161	105	102	0	0	0	69
0103	277	271	231	14	0	0	0	0	0
0104	304	332	144	0	138	0	0	0	0
0105	295	250	170	137	132	0	0	0	0
0106	175	7	15	17	0	0	0	10	0
0107	265	230	184	198	140	110	0	0	0
0108	312	362	178	216	123	0	0	0	0
0109	336	243	243	1	0	0	0	0	0
0110	282	233	162	73	11	4	0	0	2
0111	255	196	208	90	0	0	0	0	0
0112	306	167	147	38	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:48

[redacted]dix VIII
[redacted]TECHNICAL

Individual Interval Motor Activity for Group 20 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	268	244	186	97	4	9	0	26	0
1102	419	391	282	104	0	0	0	0	0
1103	237	239	191	222	4	0	0	0	0
1104	238	224	197	109	7	1	0	0	0
1105	372	297	215	124	2	0	0	0	0
1106	315	216	233	203	0	0	0	0	0
1107	305	207	189	98	0	0	0	0	0
1108	272	205	183	148	69	3	2	8	0
1109	309	245	179	77	15	0	0	0	0
1110	353	264	190	166	51	1	0	0	4
1111	295	259	212	198	42	74	41	0	C
1112	259	207	203	189	76	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

[redacted]dix VIII
[redacted]ECHNICAL
Individual Interval Motor Activity for Group 100 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	373	236	183	50	0	0	0	0	0
2102	308	259	244	65	0	0	0	0	0
2103	299	251	180	0	0	6	73	0	0
2104	263	201	150	0	0	0	0	0	0
2105	335	238	173	226	30	0	0	0	0
2106	370	336	289	250	80	177	0	0	0
2107	294	184	136	196	125	8	0	0	0
2108	286	279	261	214	271	3	0	0	0
2109	317	218	169	0	0	0	0	0	0
2110	241	218	160	80	79	0	0	0	0
2111	384	238	196	43	0	0	0	0	0
2112	315	248	232	123	15	1	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

[redacted] Appendix VIII
[redacted] TECHNICAL
Individual Interval Motor Activity for Group 400 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	367	196	209	133	125	25	0	0	0
3102	295	212	246	214	169	12	0	0	0
3103	287	295	253	140	0	0	0	0	0
3104	307	268	209	68	0	0	0	0	0
3105	281	243	185	66	52	78	0	18	4
3106	301	211	161	147	62	0	0	0	98
3107	286	265	143	84	0	0	0	0	0
3108	316	259	174	47	0	0	0	0	0
3109	269	171	98	75	64	223	4	0	0
3110	346	287	212	103	0	0	0	0	0
3111	316	214	253	42	0	0	0	0	0
3112	366	289	235	204	58	70	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

[redacted]ndix VIII
[redacted] TECHNICAL

Individual Interval Motor Activity for Group 0 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	258	152	155	85	0	0	0	0	0
0102	186	48	0	0	0	14	56	0	0
0103	187	95	103	0	1	10	69	0	0
0104	155	81	0	0	3	4	0	0	0
0105	251	165	11	65	35	54	44	17	3
0106	242	150	134	54	13	0	3	94	5
0107	191	134	82	10	69	43	7	0	0
0108	321	251	31	157	19	12	3	43	33
0109	258	168	27	0	0	0	0	0	0
0110	227	258	230	134	18	0	0	0	0
0111	245	80	39	0	0	0	0	0	0
0112	311	174	14	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

[redacted]dix VIII
[redacted]TECHNICAL

Individual Interval Motor Activity for Group 20 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	211	192	80	0	0	0	0	0	0
1102	159	117	118	76	11	2	1	3	4
1103	239	215	169	172	73	166	176	106	135
1104	181	89	68	76	60	0	0	0	0
1105	164	83	82	3	70	0	0	3	1
1106	207	175	178	115	30	35	5	0	21
1107	216	173	0	0	0	0	0	0	0
1108	182	159	107	90	81	0	0	0	0
1109	256	75	143	0	6	1	1	31	20
1110	240	92	4	47	36	1	0	0	0
1111	293	300	227	190	150	151	183	195	230
1112	162	202	64	30	0	4	1	5	1

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

Appendix VIII
[redacted]ECHNICAL
Individual Interval Motor [redacted] for Group 100 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	143	57	77	0	0	0	0	11	16
2102	124	75	7	0	0	0	0	0	53
2103	77	89	14	0	0	0	0	0	0
2104	226	257	245	218	118	176	320	357	300
2105	108	51	0	0	0	11	14	0	0
2106	146	96	64	0	37	0	0	0	0
2107	111	31	0	0	0	0	20	0	0
2108	165	39	5	0	0	0	0	0	0
2109	149	40	23	0	0	0	0	0	0
2110	108	48	3	2	7	40	31	0	0
2111	141	73	102	0	2	32	105	16	75
2112	160	40	52	6	29	4	5	1	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

[redacted]dix VIII
[redacted]ECHNICAL

Individual Interval Motor Activity for Group 400 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	149	306	103	68	347	222	78	334	310
3102	160	84	69	71	34	55	23	23	21
3103	51	76	65	12	43	55	106	167	184
3104	103	5	9	20	8	5	2	8	0
3105	143	218	89	84	0	12	65	25	29
3106	163	7	1	11	57	62	68	85	72
3107	35	0	11	0	0	0	0	5	0
3108	51	0	4	0	0	0	4	0	0
3109	72	12	22	0	0	0	7	1	0
3110	126	107	132	64	4	0	0	0	0
3111	88	29	11	17	11	4	1	1	1
3112	125	76	33	12	0	5	7	16	5

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

[redacted]dix VIII
[redacted]ECHNICAL

Individual Interval Motor Activity for Group 0 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	141	180	141	134	3	73	0	2	0
0102	321	303	198	164	53	43	48	163	9
0103	242	236	227	186	163	67	45	0	1
0104	310	246	160	95	42	0	0	0	0
0105	83	13	16	16	38	6	0	26	0
0106	352	340	213	159	14	1	0	14	21
0107	233	190	117	64	100	64	56	36	58
0108	206	161	107	6	1	0	31	151	166
0109	77	3	0	0	0	0	5	15	1
0110	204	167	133	12	0	0	0	0	0
0111	305	224	139	2	0	0	0	0	5
0112	291	182	232	153	153	145	188	18	25

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

Appendix VIII
[redacted]TECHNICAL
Individual Interval Motor Activity for Group 20 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	298	213	209	22	0	0	0	0	0
1102	340	280	163	16	0	0	0	31	291
1103	257	146	129	179	24	0	0	46	26
1104	295	240	146	66	0	8	113	38	0
1105	349	287	183	123	3	0	0	0	0
1106	333	274	315	43	0	0	2	3	0
1107	296	221	113	21	1	0	0	0	0
1108	278	223	200	157	129	11	0	0	0
1109	347	268	155	131	85	126	192	26	0
1110	249	258	150	138	12	39	7	0	7
1111	280	173	276	135	167	0	0	0	40
1112	258	171	168	137	51	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:49

Appendix VIII
[redacted] TECHNICAL
Individual Interval Motor Activity for Group 100 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	396	314	238	26	41	0	0	0	0
2102	400	291	229	183	16	118	111	0	0
2103	247	220	173	5	0	0	0	0	0
2104	240	214	205	185	111	41	0	0	0
2105	249	150	138	84	10	37	0	0	0
2106	384	340	274	118	36	0	0	0	0
2107	262	211	245	146	112	65	0	0	0
2108	256	193	207	78	0	0	0	0	9
2109	365	192	229	87	0	199	7	0	0
2110	258	272	207	200	112	128	29	0	10
2111	334	257	215	120	165	78	0	0	0
2112	294	168	134	139	72	2	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:50

[redacted]ndix VIII
[redacted]TECHNICAL

Individual Interval Motor Activity for Group 400 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	158	17	7	0	0	0	0	0	43
3102	204	224	144	54	0	0	0	0	0
3104	294	247	223	175	193	7	0	0	0
3105	302	189	142	51	0	0	0	0	0
3106	324	297	183	190	0	37	0	0	0
3107	204	210	211	151	70	0	0	0	0
3108	304	378	229	115	0	0	0	0	0
3109	341	314	182	114	0	6	94	143	18
3110	217	234	209	76	0	0	0	0	0
3111	242	245	226	236	0	0	0	0	16
3112	264	258	220	181	50	70	37	0	8

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:50

Appendix VIII
TECHNICAL
Individual Interval Motor Activity for Group 0 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	172	237	135	48	20	0	0	12	0
0102	281	169	102	94	56	178	67	105	0
0103	312	199	160	225	81	67	55	0	0
0104	373	244	135	38	0	0	0	0	0
0105	232	198	141	57	43	0	0	3	0
0106	380	187	260	91	0	9	52	226	151
0107	307	199	214	237	121	99	80	26	1
0108	258	183	55	124	0	0	0	0	0
0109	238	114	131	59	0	0	0	0	0
0110	240	195	44	0	0	1	0	0	2
0111	251	223	220	133	125	91	4	0	0
0112	283	257	195	99	0	0	0	31	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:50

[redacted]ndix VIII
[redacted]TECHNICAL
Individual Interval Motor Activity for Group 20 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	122	1	0	5	3	5	1	8	16
1102	390	305	207	76	0	12	0	160	149
1103	296	181	154	62	0	0	0	0	0
1104	284	181	154	118	113	49	16	184	9
1105	307	268	100	0	69	134	0	8	48
1106	414	339	170	161	136	207	94	79	0
1107	264	174	12	21	0	0	0	0	0
1108	311	184	195	150	1	2	2	6	18
1109	364	333	180	10	17	18	4	6	2
1110	284	58	0	80	53	1	0	0	0
1111	487	326	197	113	199	222	187	34	42
1112	275	223	212	204	110	8	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:50

[redacted]ndix VIII
[redacted]TECHNICAL

Individual Interval Motor Activity for Group 100 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	316	138	17	108	27	0	0	85	48
2102	338	241	164	100	30	0	0	0	2
2103	358	248	197	160	55	0	11	0	0
2104	303	217	146	119	115	63	0	0	0
2105	219	138	26	0	0	0	0	0	0
2106	320	233	319	151	73	34	3	64	4
2107	309	236	255	135	37	0	0	0	0
2108	333	180	255	136	196	160	86	0	0
2109	309	150	138	79	51	7	0	0	0
2110	307	236	166	54	44	74	0	0	0
2111	282	232	175	181	130	95	90	15	6
2112	354	339	264	241	90	1	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:50

[redacted]ndix VIII
[redacted]TECHNICAL
Individual Interval Motor [redacted] for Group 400 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	239	100	106	27	55	13	33	143	70
3102	241	201	189	86	93	0	0	0	0
3104	314	248	168	183	251	102	0	0	0
3105	73	2	0	8	0	0	0	0	26
3106	306	217	138	202	19	138	152	30	0
3107	326	338	296	201	67	0	26	245	0
3108	346	250	274	176	170	0	0	0	0
3109	358	210	120	147	117	190	111	128	90
3110	289	234	169	134	218	158	74	85	0
3111	366	292	206	129	0	165	153	0	0
3112	290	241	179	196	160	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP9

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:49

[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	96	68	35	14	21	0	0	0	0
0002	101	55	26	24	0	0	0	0	8
0003	132	69	14	26	0	0	0	0	0
0004	159	84	22	0	0	0	0	0	0
0005	122	61	38	16	0	0	0	0	0
0006	130	82	34	27	0	31	0	0	0
0007	156	112	66	54	15	0	0	0	0
0008	137	109	82	16	0	0	0	0	0
0009	82	37	32	12	0	24	0	0	0
0010	131	92	56	15	5	29	0	0	0
0011	96	68	27	34	0	0	0	0	0
0012	108	71	62	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:49

[redacted] Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	147	91	71	26	15	0	0	0	0
1002	161	30	18	28	5	11	0	28	0
1003	106	83	25	0	0	0	0	0	0
1004	113	84	73	25	0	0	0	0	0
1005	99	44	13	3	0	0	0	0	0
1006	101	88	68	30	4	2	29	33	0
1007	163	77	61	29	25	0	0	0	46
1008	72	56	26	0	0	0	0	0	0
1009	91	24	0	0	0	0	0	0	0
1010	96	86	65	41	2	32	1	0	0
1011	117	79	18	0	0	0	0	0	0
1012	139	93	43	8	17	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:50

[redacted]dix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 150 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	104	78	18	0	0	0	0	0	0
2002	157	91	44	9	0	0	0	0	0
2003	158	85	20	0	0	0	0	0	0
2004	124	115	57	17	0	0	0	0	0
2005	126	59	9	30	0	0	0	0	0
2006	92	74	20	8	0	0	0	0	0
2007	113	96	32	17	0	10	0	0	0
2008	108	95	33	0	0	0	0	0	0
2009	115	61	50	12	0	1	0	0	0
2010	150	89	50	0	0	0	0	0	0
2011	118	52	21	0	0	6	0	0	0
2012	190	131	73	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:50

[redacted]ndix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 600 MG/KG Male Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	138	86	71	19	18	0	0	0	0
3002	78	29	34	0	0	0	18	14	0
3003	106	68	49	37	0	30	0	0	0
3004	112	55	28	0	0	0	0	3	0
3005	84	37	4	0	0	0	6	0	0
3006	92	115	29	0	0	31	0	0	0
3007	119	74	0	0	0	0	0	0	0
3008	95	47	68	30	17	6	0	0	0
3009	163	91	20	40	4	0	0	0	0
3010	121	86	63	7	0	0	0	0	0
3011	123	90	80	47	34	0	0	0	0
3012	146	112	94	19	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:50

Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	85	42	17	0	0	0	0	0	0
0002	30	3	0	0	0	0	4	0	0
0003	79	24	24	0	0	0	0	0	0
0004	111	42	17	26	1	0	0	0	0
0005	65	32	0	0	0	0	0	0	0
0006	71	8	1	0	0	0	0	0	0
0007	86	36	27	3	0	0	0	0	0
0008	64	17	0	0	0	0	0	0	0
0009	64	21	0	0	0	0	0	0	0
0010	67	20	14	0	0	0	0	0	0
0011	69	31	8	0	0	0	0	0	0
0012	74	23	0	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:50

[redacted]dix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	61	3	0	0	0	5	0	0	0
1002	108	50	16	8	0	0	0	0	0
1003	66	1	12	0	0	0	0	0	0
1004	64	45	0	0	0	8	0	0	0
1005	74	27	1	0	0	0	0	0	0
1006	70	19	0	0	0	0	0	0	0
1007	86	25	4	0	0	0	0	0	0
1008	54	11	0	0	0	0	0	0	0
1009	48	23	14	0	0	0	0	0	0
1010	47	13	13	0	0	0	0	0	0
1011	87	46	3	0	0	0	0	0	0
1012	92	20	37	9	15	0	2	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:50

Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 150 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	21	7	1	0	0	5	0	0	0
2002	10	0	0	0	0	0	0	0	0
2003	18	0	0	0	0	0	0	0	0
2004	24	0	5	0	0	6	0	0	0
2005	47	17	0	7	0	11	0	0	0
2006	7	6	0	0	0	2	0	0	0
2007	34	0	5	0	0	0	11	5	0
2008	17	3	0	5	0	3	4	0	0
2009	21	1	0	0	0	0	0	0	5
2010	30	2	5	0	6	0	0	0	0
2011	31	9	1	4	0	0	0	0	6
2012	23	12	2	0	8	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

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[redacted]dix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 600 MG/KG Male Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	43	11	0	2	3	0	2	3	0
3002	1	0	0	0	0	0	0	11	16
3003	59	48	38	10	0	3	0	0	0
3004	59	59	49	44	6	36	2	32	22
3005	2	0	0	0	0	0	0	0	0
3006	30	22	15	15	11	20	2	8	8
3007	1	0	0	0	0	16	0	0	0
3008	72	67	71	0	0	0	0	0	0
3009	5	0	5	7	1	9	6	11	15
3010	17	4	0	16	1	0	2	0	12
3011	2	0	0	0	0	0	1	8	1
3012	23	1	0	8	0	10	3	1	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

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TIME: 8:47:50

[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	95	38	1	0	0	0	0	0	0
0002	103	40	15	0	0	0	0	0	0
0003	96	52	23	0	0	0	0	0	4
0004	103	62	78	19	10	0	0	0	0
0005	138	92	23	0	0	0	0	0	0
0006	123	50	5	44	0	0	0	0	0
0007	89	50	61	32	29	0	0	0	0
0008	118	73	5	0	0	0	0	0	0
0009	91	46	43	0	0	0	0	0	0
0010	81	78	64	65	34	0	0	0	0
0011	104	64	27	22	4	0	0	0	17
0012	113	72	30	19	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
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[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	111	54	48	9	0	0	0	0	0
1002	143	90	65	34	4	0	14	0	0
1003	132	65	18	7	0	0	0	0	0
1004	110	72	31	0	0	0	0	0	0
1005	57	46	3	9	0	0	0	0	0
1006	90	81	37	13	0	0	0	0	0
1007	134	82	26	38	0	0	0	0	0
1008	91	42	28	11	0	0	0	1	0
1009	111	84	16	0	0	0	0	0	0
1010	64	36	45	13	0	0	0	0	0
1011	104	86	65	28	14	0	0	0	0
1012	109	44	59	61	24	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:51

[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 150 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	99	77	87	6	29	0	0	0	0
2002	157	64	45	16	14	0	0	0	0
2003	99	80	51	28	1	0	0	0	0
2004	93	117	19	0	0	0	0	0	0
2005	113	101	63	47	4	0	0	0	0
2006	101	50	22	3	0	0	0	0	0
2007	79	82	5	62	0	0	0	0	0
2008	93	61	68	112	3	38	17	0	0
2009	99	97	11	3	0	0	0	0	0
2010	94	64	63	13	0	0	0	1	0
2011	82	57	6	4	0	0	0	0	0
2012	103	62	64	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
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[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 600 MG/KG Male Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	101	96	66	71	30	33	0	0	2
3002	75	20	19	8	0	0	0	0	0
3003	104	61	9	0	0	0	0	0	0
3004	74	44	0	25	0	0	0	0	1
3009	63	8	0	0	0	0	0	0	0
3010	91	57	25	0	0	0	0	0	0
3012	142	113	35	5	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

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Appendix IX
TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0001	130	78	83	59	3	5	0	0	0
0002	99	51	0	5	0	0	0	0	21
0003	98	70	68	45	0	0	0	0	0
0004	153	72	70	54	37	11	0	0	13
0005	127	71	37	28	2	9	0	0	0
0006	124	74	30	46	17	0	0	0	0
0007	113	66	43	38	8	6	36	0	0
0008	155	95	51	22	41	0	0	0	0
0009	112	71	27	0	12	13	0	0	0
0010	114	62	98	28	35	26	58	19	0
0011	92	63	45	24	24	1	0	0	0
0012	107	33	30	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:51

[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1001	148	79	43	27	0	0	14	68	2
1002	147	111	55	39	37	0	0	0	8
1003	132	44	5	0	2	0	0	0	0
1004	109	52	73	0	0	0	0	0	0
1005	130	72	33	14	0	0	0	0	0
1006	114	29	2	1	0	6	3	0	0
1007	176	103	66	0	0	0	0	0	0
1008	121	47	0	0	0	0	0	0	0
1009	167	91	46	16	10	0	59	14	0
1010	94	57	70	28	12	0	0	0	0
1011	125	37	26	0	0	0	0	0	0
1012	131	83	56	44	7	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 8:47:51

[redacted]dix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 150 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2001	115	105	53	32	50	28	0	0	0
2002	158	78	31	28	0	0	0	0	0
2003	140	86	89	75	41	2	0	0	0
2004	122	91	47	19	0	0	0	0	33
2005	108	77	79	36	20	1	7	3	1
2006	101	45	32	16	0	0	0	0	0
2007	98	83	43	28	0	20	24	4	0
2008	82	57	43	34	11	0	0	0	0
2009	129	88	93	51	0	0	0	0	0
2010	97	75	24	16	0	0	0	3	0
2011	77	55	29	18	0	0	0	4	0
2012	96	81	64	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
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[redacted]dix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 600 MG/KG Male Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3001	144	95	67	54	67	22	0	0	0
3002	78	58	25	20	5	0	0	33	0
3003	84	51	12	0	7	0	0	0	0
3004	134	70	57	13	16	0	0	0	0
3009	83	58	0	16	0	0	0	0	0
3010	75	44	47	28	0	14	5	0	0
3012	153	96	54	55	53	10	0	32	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 26SEP94

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Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	124	109	108	135	75	12	0	0	1
0102	126	85	40	40	37	0	0	0	26
0103	123	88	65	3	0	0	0	0	0
0104	133	138	64	0	52	0	0	0	0
0105	123	85	58	43	49	0	0	0	0
0106	69	0	3	5	0	0	0	4	0
0107	108	80	72	69	48	36	0	0	0
0108	132	129	63	86	34	0	0	0	0
0109	146	76	79	1	0	0	0	0	0
0110	112	70	44	12	0	0	0	0	0
0111	86	58	65	35	0	0	0	0	0
0112	132	77	58	10	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

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Appendix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	108	67	52	25	0	3	0	0	0
1102	185	170	116	42	0	0	0	0	0
1103	93	81	80	94	2	0	0	0	0
1104	95	71	71	39	0	0	0	0	0
1105	177	134	97	60	0	0	0	0	0
1106	146	72	89	81	0	0	0	0	0
1107	118	71	70	22	0	0	0	0	0
1108	123	69	51	34	11	0	0	0	0
1109	135	88	59	18	6	0	0	0	0
1110	133	86	60	71	18	1	0	0	0
1111	108	95	70	70	11	21	11	0	0
1112	123	68	85	79	14	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

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Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 100 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	160	82	51	11	0	0	0	0	0
2102	138	100	93	31	0	0	0	0	0
2103	106	77	47	0	0	3	19	0	0
2104	114	83	60	0	0	0	0	0	0
2105	142	83	66	83	9	0	0	0	0
2106	156	104	89	99	26	68	0	0	0
2107	117	69	49	79	48	2	0	0	0
2108	186	137	118	91	123	1	0	0	0
2109	127	71	54	0	0	0	0	0	0
2110	100	79	57	22	26	0	0	0	0
2111	139	88	61	13	0	0	0	0	0
2112	125	77	74	41	2	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

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[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 400 MG/KG Female Rats, Pretreatment
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	137	75	58	39	47	8	0	0	0
3102	119	76	97	75	71	4	0	0	0
3103	122	113	104	57	0	0	0	0	0
3104	160	116	86	20	0	0	0	0	0
3105	114	76	59	21	15	19	0	3	0
3106	127	70	47	57	19	0	0	0	31
3107	156	104	51	24	0	0	0	0	0
3108	120	86	63	15	0	0	0	0	0
3109	118	67	34	22	23	96	0	0	0
3110	142	107	73	39	0	0	0	0	0
3111	124	80	81	11	0	0	0	0	0
3112	130	98	85	72	13	20	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
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Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	91	54	42	16	0	0	0	0	0
0102	64	12	0	0	0	7	6	0	0
0103	82	44	31	0	0	6	28	0	0
0104	46	21	0	0	0	0	0	0	0
0105	91	44	2	20	11	12	7	0	0
0106	101	40	37	16	1	0	0	0	0
0107	70	32	26	2	23	19	2	0	0
0108	163	116	4	52	0	0	0	0	0
0109	93	44	10	0	0	0	0	0	0
0110	68	76	81	39	6	0	0	0	0
0111	91	27	14	0	0	0	0	0	0
0112	108	50	4	0	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

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[redacted]ndix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	80	55	31	0	0	0	0	0	0
1102	53	34	23	25	0	0	0	0	0
1103	67	62	43	50	26	53	57	33	16
1104	75	21	21	19	17	0	0	0	0
1105	61	27	20	1	33	0	0	0	0
1106	68	53	62	28	2	11	0	0	0
1107	79	33	0	0	0	0	0	0	0
1108	63	45	35	28	23	0	0	0	0
1109	102	26	27	0	0	0	0	0	0
1110	88	3	0	0	0	0	0	0	0
1111	123	95	80	62	54	53	69	68	80
1112	48	41	8	7	0	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

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[redacted]dix IX
[redacted]ECHNICAL
Individual Interval Locomotor Activity for Group 100 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	55	15	10	0	0	0	0	4	7
2102	45	6	0	0	0	0	0	0	14
2103	23	14	5	0	0	0	0	0	0
2104	65	79	74	65	40	64	126	143	117
2105	42	18	0	0	0	3	4	0	0
2106	37	14	12	0	6	0	0	0	0
2107	28	7	0	0	0	0	4	0	0
2108	51	13	0	0	0	0	0	0	0
2109	43	9	6	0	0	0	0	0	0
2110	37	11	0	0	0	8	9	0	0
2111	44	17	9	0	0	7	10	3	16
2112	37	8	13	2	7	2	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

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[redacted]ndix IX
[redacted]TECHNICAL

Individual Interval Locomotor Activity for Group 400 MG/KG Female Rats, Day 0
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	1	0	0	0	0	0	0	0	0
3102	58	40	23	35	20	28	10	13	9
3103	3	25	27	4	16	21	19	20	14
3104	29	0	0	7	0	0	0	0	0
3105	61	62	39	29	0	2	1	4	6
3106	46	3	0	2	10	27	28	37	29
3107	25	0	8	0	0	0	0	2	0
3108	16	0	0	0	0	0	1	0	0
3109	33	2	10	0	0	0	4	0	0
3110	61	41	28	27	1	0	0	0	0
3111	21	7	2	7	0	2	0	0	0
3112	54	36	16	3	0	3	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:51

Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	66	90	67	58	2	28	0	0	0
0102	123	101	68	37	20	13	14	54	0
0103	129	108	101	79	59	30	14	0	0
0104	125	76	51	34	9	0	0	0	0
0105	12	0	10	0	0	0	0	0	0
0106	135	124	86	24	0	0	0	0	0
0107	107	76	41	26	29	22	19	7	17
0108	72	60	23	0	0	0	5	54	60
0109	30	1	0	0	0	0	1	6	0
0110	51	51	51	2	0	0	0	0	0
0111	101	85	54	0	0	0	0	0	0
0112	103	71	80	62	58	59	66	6	9

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:52

Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	140	86	86	0	0	0	0	0	0
1102	137	110	45	6	0	0	0	16	119
1103	118	60	46	53	0	0	0	19	6
1104	106	86	38	20	0	3	35	13	0
1105	137	107	64	52	0	0	0	0	0
1106	117	107	120	7	0	0	0	0	0
1107	111	69	27	6	0	0	0	0	0
1108	90	87	67	44	29	3	0	0	0
1109	133	103	55	42	22	45	52	0	0
1110	123	93	51	49	7	1	0	0	0
1111	104	66	109	37	57	0	0	0	15
1112	91	76	82	69	16	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:52

Appendix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 100 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	167	112	74	6	11	0	0	0	0
2102	177	104	95	73	6	58	30	0	0
2103	82	55	54	1	0	0	0	0	0
2104	91	85	75	82	26	9	0	0	0
2105	106	56	44	28	7	15	0	0	0
2106	135	123	103	36	13	0	0	0	0
2107	96	86	93	43	24	28	0	0	0
2108	97	79	79	31	0	0	0	0	4
2109	150	65	87	19	0	79	2	0	0
2110	103	100	67	71	38	8	0	0	7
2111	113	74	63	29	39	13	0	0	0
2112	106	54	36	49	15	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:52

Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 400 MG/KG Female Rats, Day 7
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	65	5	3	0	0	0	0	0	19
3102	77	71	50	11	0	0	0	0	0
3104	130	99	81	62	79	3	0	0	0
3105	113	55	40	15	0	0	0	0	0
3106	149	112	74	74	0	13	0	0	0
3107	141	124	94	70	20	0	0	0	0
3108	114	145	73	35	0	0	0	0	0
3109	166	124	72	35	0	0	41	35	0
3110	92	97	72	34	0	0	0	0	0
3111	114	87	76	76	0	0	0	0	3
3112	92	94	72	64	14	10	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

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DATE: 18AUG95
TIME: 10:51:52

Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 0 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
0101	96	110	48	14	0	0	0	0	0
0102	115	68	44	43	23	63	27	45	0
0103	142	70	54	80	28	17	14	0	0
0104	135	73	47	17	0	0	0	0	0
0105	93	76	39	12	0	0	0	0	0
0106	160	59	100	25	0	0	9	84	45
0107	146	66	70	71	37	28	19	0	0
0108	116	59	19	48	0	0	0	0	0
0109	86	22	31	15	0	0	0	0	0
0110	83	60	10	0	0	0	0	0	0
0111	96	94	80	46	44	34	2	0	0
0112	106	71	53	28	0	0	0	14	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:52

Appendix IX
[redacted] TECHNICAL
Individual Interval Locomotor Activity for Group 20 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
1101	43	0	0	1	0	0	0	1	4
1102	175	126	87	27	0	5	0	66	49
1103	135	67	53	21	0	0	0	0	0
1104	105	57	44	47	46	17	5	67	0
1105	138	105	35	0	26	49	0	4	16
1106	184	129	58	50	46	67	15	21	0
1107	96	66	4	10	0	0	0	0	0
1108	118	56	77	17	0	0	0	0	0
1109	153	124	45	0	5	2	0	0	0
1110	112	18	0	28	13	0	0	0	0
1111	207	122	76	36	108	85	56	12	17
1112	111	80	71	73	34	1	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:52

Appendix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 100 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
2101	112	43	5	44	7	0	0	32	18
2102	141	90	58	32	0	0	0	0	0
2103	148	87	72	54	10	0	4	0	0
2104	102	68	42	32	31	18	0	0	0
2105	88	49	8	0	0	0	0	0	0
2106	167	107	123	45	26	0	0	0	0
2107	118	70	74	36	0	0	0	0	0
2108	146	74	95	57	83	62	26	0	0
2109	117	46	36	19	11	0	0	0	0
2110	123	73	45	18	16	20	0	0	0
2111	115	85	61	58	29	32	12	0	0
2112	146	115	94	93	30	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

BAYER CORPORATION - TOXICOLOGY

DATE: 18AUG95
TIME: 10:51:52

Appendix IX
[redacted]TECHNICAL
Individual Interval Locomotor Activity for Group 400 MG/KG Female Rats, Day 14
Study Number 94-412-BF

Animal No.	Int. 1	Int. 2	Int. 3	Int. 4	Int. 5	Int. 6	Int. 7	Int. 8	Int. 9
3101	110	27	32	6	21	0	8	51	25
3102	85	57	59	30	20	0	0	0	0
3104	132	88	58	66	96	22	0	0	0
3105	31	0	0	1	0	0	0	0	0
3106	125	101	64	72	5	39	48	6	0
3107	152	134	112	88	29	0	5	106	0
3108	152	101	107	72	59	0	0	0	0
3109	163	91	51	53	46	78	44	47	35
3110	124	92	51	38	77	42	29	23	0
3111	150	108	69	41	0	90	64	0	0
3112	126	76	62	59	58	0	0	0	0

1:30:00 (hh:mm:ss) Test Session 10 - Minute Intervals
Nominal Day 0 = 28SEP94

Appendix X

Pathology Report

Study Number 94-412-BF

Pathology Report
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GENERAL

The purpose of this study was to provide information regarding the potential for technical grade [redacted] to produce acute neurotoxic effects following exposure by oral gavage.

The test substance was administered to young adult Fischer 344 rats (12 rats/sex/dose group) by oral gavage in single nominal doses of 0 (vehicle), 20, 150, or 600 mg/kg for males and 0 (vehicle), 20, 100, or 400 mg/kg for females. The test animals were killed fifteen days following exposure to the test compound.

The animal care, gross pathology, and micropathology evaluations were performed by the Toxicology Department, Agriculture Division, Bayer Corporation, Stilwell, KS (Action Plan 94-412-BF).

MATERIALS AND METHODS

Animal Care

Young adult male and female Fischer 344 rats from SASCO, Inc. (Madison, WI) were used as test animals in this study. The test animals were housed in the Toxicology Building at Bayer Corporation, Stilwell, KS. Constant environmental control was maintained throughout the study.

See Section A for the complete Animal Care Report (page 318).

Gross Pathology

Twelve animals per sex were assigned to each dose group for euthanasia and gross necropsy to be performed fifteen days following treatment with the test compound. This included six animals/sex/dose group allocated for perfusion fixation and tissue collection. The necropsies involved an examination of all organs, body cavities, cut surfaces, and external orifices and surfaces. All gross abnormalities were recorded.

The six rats/sex/dose group allocated for tissue collection were anesthetized with sodium pentobarbital and euthanized by intravascular perfusion with aldehyde fixative. The intravascular perfusion consisted of a brief flush with 0.7% sodium nitrite in phosphate buffer followed by a solution of 4% formaldehyde and 4% glutaraldehyde in phosphate buffer. The brain, spinal cord (including dorsal root ganglia and spinal nerve roots), both eyes with optic nerves, selected peripheral nerves (sciatic, tibial, and sural), gasserian ganglia, gastrocnemius muscle, and physical identifier were collected from the perfused animals and post-fixed in 10% phosphate buffered formalin.

The spinal cord, dorsal root ganglia, and spinal nerve roots in low- and mid-dose animals undergoing perfusion fixation were collected at necropsy but were not subsequently dissected from the vertebral column and examined grossly unless they were processed for micropathology. These tissues are nevertheless listed as within normal limits on the necropsy summary table to indicate that they were collected.

In order to ensure a minimum number of animals with optimally preserved tissues for microscopic examination, the remaining six animals per sex at each dose level were available as replacements in the event of early death or inadequate perfusion of any of the rats originally allocated for tissue collection. If not used as a replacement, these extra rats were sacrificed by carbon dioxide asphyxiation, necropsied, and discarded without tissue collection.

Terminal Body and Organ Weights

Terminal body weights and brain weights were obtained at necropsy on those animals undergoing perfusion fixation. Terminal body weights were taken after anesthesia just prior to perfusion fixation. The brains were weighed after perfusion fixation. No other organs were weighed.

Micropathology

Micropathology examinations were conducted on a comprehensive battery of neural tissues from perfusion-fixed control and high-dose rats of both sexes. The brains from mid-dose rats of both sexes were also examined due to the presence of treatment-related lesions in high-dose rats. No tissues from low-dose rats were examined.

The following tissues were examined from perfusion-fixed control and high-dose rats: eight sequential levels of the brain (coronal sections: Levels 1 to 8), four levels of the spinal cord (cervical, thoracic, lumbar: transverse and longitudinal section at each level, and cauda equina: longitudinal section including conus medullaris), left and right gasserian ganglia (longitudinal sections), spinal nerve roots and dorsal root ganglia (two pairs from both the cervical and lumbar enlargements), left and right sciatic nerves (transverse and longitudinal sections), left and right tibial nerves (transverse sections), left and right sural nerves (transverse sections), left and right optic nerves (transverse sections), left and right eyes, and gastrocnemius muscle (unilateral transverse section).

The brains only were processed and examined in mid-dose rats.

The brains from all animals were trimmed in a standard manner using a metal rodent brain matrix (RBM-4000C, Activational Systems, Inc., Warren, MI). Each of the resulting eight standard brain levels was surveyed for any histopathologic alteration. The microscopic evaluation included the following major brain regions: olfactory bulbs (Level 1); cerebral cortex (Levels 2 to 6); caudate-putamen/globus pallidus (Levels 2 to 5); hippocampus (Levels 5 to 6); thalamus (Levels 4 to 5); hypothalamus (Levels 4 to 5); midbrain including tectum, tegmentum, and cerebral peduncles (Level 6); cerebellum (Levels 7 to 8); and medulla oblongata (Levels 7 to 8).

Brain and spinal cord tissues were embedded in paraffin and sectioned at approximately 5 µm. Three sections were collected from each level and stained with Hematoxylin and Eosin (H & E), Luxol Fast Blue-Cresyl Violet, and Sevier-Munger stains, respectively. The spinal nerve roots and dorsal root ganglia, the gasserian ganglia, the gastrocnemius muscle, the optic nerve, and the eyes were embedded in glycol methacrylate (GMA), sectioned at 2 to 3 µm, and stained with a modified Lee's stain. Peripheral nerve tissues (sciatic, tibial, and sural) were embedded in epoxy resin, cut at approximately 1 µm, and stained with Toluidine Blue.

After an initial microscopic review of tissues from high-dose and mid-dose rats relative to control tissues, 'Brain, Level 5' from control, mid-, and high-dose animals were shuffled and re-examined without knowledge of the dose groups to verify the presence of treatment-related lesions. The incidence and severity grading recorded in the pathology data tables reflect the results of this blind review.

Individual animal data were entered into a computerized laboratory data system (DATATOX, Instem Computer Systems, Stone, Staffordshire, England) for subsequent presentation and analysis. The severity of nonneoplastic lesions was assessed by the

pathologist and was graded based on the following subjective criteria:

(1)	NORMAL	:	No recognizable lesion was present, or extent of tissue change was considered within normal biological "background" range based on the training and experience of the veterinary pathologist or veterinary ophthalmologist.
(2)	MINIMAL - GRADE 1	:	The distribution and/or extent of the observation was the **least** amount or degree discernible, yet recordable, with little tissue destruction or change from normal.
(3)	MILD - GRADE 2 OR SLIGHT	:	This amount of change is easily detected but generally still is of limited degree, amount, or intensity from that considered to be normal.
(4)	MODERATE - GRADE 3	:	The distribution, amount, and/or extent of the observation was clearly visible, well-developed with definite tissue destruction or change from normal. This grade indicates that there **may be** a relatively large area of involvement (focal, multifocal, or diffuse), multiple cell involvement, and/or the majority of the organ or tissue may be involved. This grade would be noticeably increased over a "mild/slight" grade of a similar observation.
(5)	MARKED - GRADE 4	:	The distribution, amount, and/or extent of the observation was extensive with marked tissue destruction or change from normal. This grade indicates that there **is** a large area involved (focal, multifocal, or diffuse), multiple cell involvement, and/or the majority of the organ or tissue is involved. This degree of involvement could greatly compromise the ability of the tissue or organ to function normally.
(6)	SEVERE - GRADE 5	:	The distribution, amount, and/or extent of the observation would be the most severe or extensive level that one could encounter. This grade would indicate that the observation was extensively developed and represent nearly total tissue destruction or involvement. This grade could definitely compromise the whole animal or organ involved and may or may not be reversible.
(7)	PRESENT	:	A non-quantitated, non-neoplastic, morphologic change is present. For such lesions, it may be difficult to assign a grade as it is usually not possible to determine the extent of involvement or size. These changes are usually single occurrences within a section. The study pathologist should be consistent with these lesions throughout the study. The pathologist may assign a similar grade for such lesions or may opt to not give such lesions a grade at all.

Statistics

Software packages from Instem Computer Systems (Stone, Staffordshire, England) and SAS (SAS Institute Inc., Cary, NC) were used to perform statistical evaluations.

Continuous data were evaluated initially using Bartlett's Test to analyze for homogeneity of variances among groups. Groups with homogeneous variances were further analyzed using an Analysis of Variance (ANOVA) followed by Dunnett's Test for pairwise comparisons. In the event of non-homogeneous variances, data were analyzed using the nonparametric Kruskal-Wallis Test followed by a Mann-Whitney U Test for pairwise comparisons.

Micropathology frequency data were analyzed using a Chi-Square Test followed by a one-tailed Fisher's Exact Test in cases of significant variation by the Chi-Square analysis. Micropathology severity grades were analyzed using a Kruskal-Wallis Test followed by a Mann-Whitney U Test for pairwise comparisons.

A probability value of $p \leq 0.05$ was accepted as significant for all statistical tests with the exception of Bartlett's Test, in which a probability value of $p \leq 0.001$ was used.

RESULTS AND DISCUSSION

Animal Care

The animal care procedures and room conditions during this study were in accordance with accepted standards of laboratory animal care in compliance with the *Animal Welfare Act of 1966* (Public Law 89-544) and its amendments, as well as the *Guide for Care and Use of Laboratory Animals* (NIH Publication No. 86-23, Revised 1985). The facility in which the study was conducted is fully accredited by the American Association for the Accreditation of Laboratory Animal Care (AAALAC) in addition to being a registered research facility with the United States Department of Agriculture (USDA).

See Section A for the complete Animal Care Report (page 318).

Early Deaths

Five high-dose male rats (600 mg/kg) and one high-dose female rat (400 mg/kg) died prior to scheduled termination. The males died the day of treatment or the following morning. The female rat died the day after treatment.

Gross Pathology

Individual gross observations for all animals which underwent a necropsy examination are presented in Table GP1-IND (page 352) and are summarized in Table GP1-SUM (page 321).

Salivation was observed in four of the five high-dose males and the one high-dose female rat that died before study termination. In addition, there was edema in the ventral neck area in one of the early-death males, and there was urine staining in the early-death female rat.

At study termination, the tip of the tail was missing in one high-dose female (BF3101) apparently due to self-mutilation.

No other gross observations were noted which were considered treatment-related. Reduced testicular size in one low-dose male (BF1006) was considered incidental.

Terminal Body and Organ Weights

Individual terminal body weights and brain weights (absolute and relative) are presented in Table OW1K-IND (page 361) and are summarized in Table OW1K-SUM (page 338).

There were no treatment-related differences in terminal body weight or brain weight between perfused control and treated rats of either sex at study termination. A statistical increase in relative brain weight in low-dose females, which was associated with a non-statistical decrease in mean terminal body weight, was considered incidental and unrelated to test-compound exposure.

Micropathology

The tissue accountability, sectioning quality, and staining quality were considered adequate for microscopic evaluation of this study for pathologic alterations.

Individual micropathology data with accompanying gross necropsy findings for all animals examined microscopically are presented in Table GPMP1-IND (page 370). Table MP1-SUM (page 341) contains a summary of micropathology incidence data including mean lesion severity grades. Table MP1-SUM (page 341) lists diagnostic terms without the descriptive zones and qualifiers included for each diagnosis in Table GPMP1-IND (page 370). These zones and qualifiers which provide information about lesion location and distribution are discussed in the narrative where necessary.

Neuronal necrosis was observed in one high-dose male (BF3009, 600 mg/kg) and one high-dose female (BF3101, 400 mg/kg). Neuronal necrosis was limited to the midline of the thalamus (Brain, Level 5) in the region of the reuniens thalamic nucleus. The necrotic neurons were shrunken with eosinophilic cytoplasm and pyknotic or karyorrhectic nuclei (Figure 1, page 316). The surrounding neuropil was very slightly vacuolated. Neurons in other brain regions were morphologically normal.

Neuronal necrosis was not present in the brains of the mid-dose animals (150 mg/kg in males, 100 mg/kg in females). The midline thalamus was specifically examined in each mid-dose animal. Tissues from low-dose animals were not examined due to the lack of a pathologic response at the mid-dose.

Several additional incidental microscopic changes unrelated to treatment were present in control and/or treated animals. These alterations were generally minimal and included but were not limited to degeneration of scattered individual nerve fibers in the trapezoid body (Brain, Level 7) and spinal cord; swelling of solitary axons in the brain and spinal cord; corneal mineralization; and unilateral degeneration of the retina, optic nerve, and central optic pathways. These changes have been previously reported as spontaneous alterations in the rat (1-10).

SUMMARY AND CONCLUSIONS

Single oral gavage with technical grad[redacted] at nominal doses of 0, 20, 150, and 600 mg/kg in male rats and 0, 20, 100, and 400 mg/kg in female rats for the purpose of detecting potential neurotoxic effects resulted in the following observations:

1. Five high-dose male rats (600 mg/kg) and one high-dose female rat (400 mg/kg) died prior to the scheduled termination as a result of treatment with the test compound.

2. Salivation, ventral neck edema, and urine staining were noted in some of the early-death animals at necropsy. At study termination, self-mutilation of the tail was noted in one high-dose female (400 mg/kg).

3. There were no differences in terminal body weights or brain weights between perfused control and treated animals in either sex which were a result of test-compound exposure.

4. Neuronal necrosis was observed in the brain (thalamus) of one high-dose male (600 mg/kg) and one high-dose female (400 mg/kg) as a result of test-compound exposure. All other high-dose animals and all mid-dose animals of both sexes were unaffected on micropathologic review.

5. A NOEL of 150 mg/kg in male rats and 100 mg/kg in female rats was established based on gross necropsy, terminal body weight and brain weight, and micropathology.

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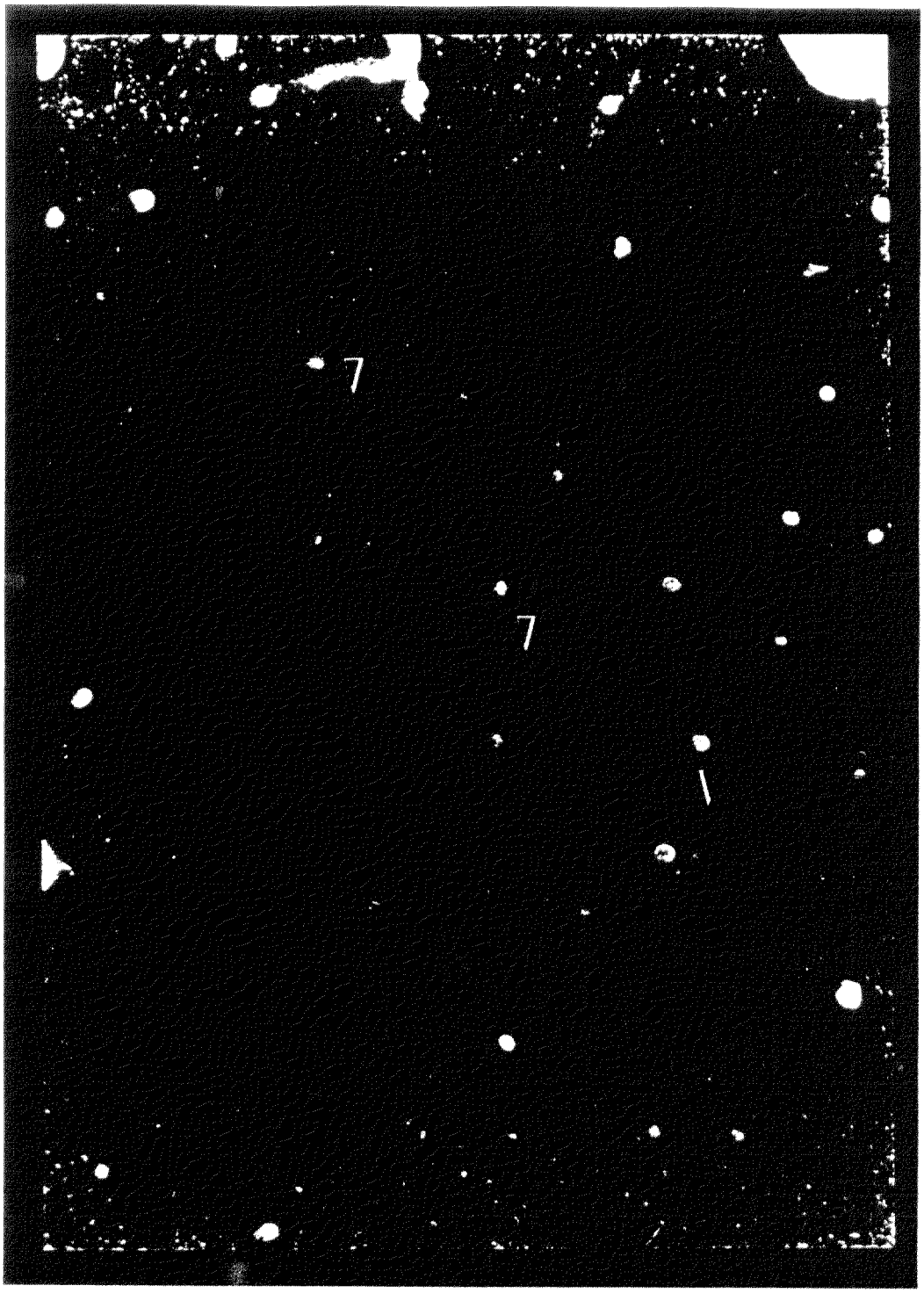
FIGURE 1



Neuronal necrosis (arrowheads) in the thalamus of a male rat following treatment with 600 mg/k[redacted] by oral gavage. The necrotic neurons are shrunken and eosinophilic with pyknotic or karyorrhectic nuclei. (Animal No. BF3009; 400X original magnification; Hematoxylin & Eosin stain.)

LEGEND FOR PATHOLOGY TABLES

1. Table number containing an "IND" or "SUM" indicates an individual or summary table, respectively.

2. In tables generated by Instem's DATATOX, the day a laboratory action was performed for an individual animal may be slightly different from the nominal day listed for that action for purposes of analysis and presentation in a summary table. This is inherent in the operation of DATATOX and does not indicate an error in the data record.

SECTION A

ANIMAL CARE REPORT

STUDY NUMBER 94-412-BF

ANIMAL CARE REPORT

Study Number 94-412-BF

An Experimental Acute Oral Neurotoxicity Screening Study with Technical Grade [redacted] in Fischer 344 Rats

DATES

Animal Arrival Date: August 30, 1994
Shipment Released for Study Date: September 6, 1994
Study Animal Termination Date: October 14, 1994
Room Number 303 TOX Building

ANIMAL INFORMATION

Species/Strain: *Rattus norvegicus* Fischer 344

Source: SASCO, Inc, Madison, Wisconsin

Number in Shipment: 60 Males, 60 Females received; 60 Males, 60 Females released for study.

Animals Used for Study:
Females: 1153-1156, 1158-1182, 1184-1192, 1194, 1198-1206, 1209-1211
Males: 1076-1089, 1091-1093, 1095-1098, 1100-1102, 1104-1105, 1108-1115, 1118, 1120-1134

Method of Shipment: Vendor vehicle

Birth Date: Males and Females: July 26, 1994

Shipment Examination Date: August 30, 1994

Acclimation Period Dates: August 30 to September 6, 1994

Shipment Release Form Signed: September 6, 1994

ANIMAL CARE AND HOUSING

Caging Type: Individually housed in stainless steel wire mesh cages providing a 66.5 square inch area. The required area for rats weighing less than 500 grams is 60.0 square inches.

Bedding Type/Changes: Deotized Animal Cage Board was used in pans changed at least three times weekly from August 30, 1994, until October 14, 1994.

Room Disinfection: A quaternary ammonium compound was used to disinfect the room at least once every three weeks from August 30, 1994, until October 14, 1994.

Rack Changes: Racks were changed at least once every three weeks from August 30, 1994, until October 14, 1994. Animals were received into clean racks, which were changed according to the three-week schedule.

Feeding: Animals were fed Purina Rodent Laboratory Chow #5001-4 (etts), *ad libitum*, daily from August 30, 1994, until October 14, 1994.

Lighting: A 12-hour light/dark cycle was maintained from August 30, 1994, until October 14, 1994.

Water: Kansas City Water District provides water for our facility. Water is provided *ad libitum* using an Edstrom automatic watering system.

Environmental Condition: Temperature/Humidity
Temperature: 18.3° to 25.6°C
Humidity: 40% to 70% RH

Deviations: None, Edstrom Watchdog report filed with raw data

Pest Control Use: None

Identification: Cage cards by Animal Care technicians; tail tattoos by Toxicology technicians

Randomization: A SAS program was used to randomize the animals. Animal Care technicians performed the randomization on August 30, 1994.

CONCLUSION:

The animal care procedures and room conditions during this study were in accordance with accepted standards of laboratory animal care in compliance with the *Animal Welfare Act of 1966* (Public Law 89-544) and its amendments, as well as the *Guide for Care and Use of Laboratory Animals* (NIH Publication No. 86-23, Revised, 1985), and should not affect the health of animals engaged in the study. The facility in which the study was conducted is fully accredited with the American Association for the Accreditation of Laboratory Animal Care (AAALAC) in addition to being a registered research facility with the United States Department of Agriculture (USDA).

Date: October 24, 1994

SECTION B

MEAN/SUMMARY DATA TABLES

TABLE GP1-SUM

GROSS PATHOLOGY SUMMARY

STUDY NUMBER 94-412-BF

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
DIGESTIVE SYSTEM				
salivary glands				
VENTRAL NECK EDEMA				
Incidence (%)	0 (0.0)	0 (0.0)	0 (0.0)	1 (100.0)
N	0	0	0	1
Mean time of death	0.0	0.0	0.0	1.0

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
INTEGUMENTARY SYSTEM				
forelimb				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
MUSCULAR SYSTEM				
muscle, gastrocnemius				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group Dosage No. of Animals	A 0 Mg/Kg 12	B 20 Mg/Kg 12	C 150 Mg/Kg 12	D 600 Mg/Kg 12
NERVOUS SYSTEM				
brain				
WITHIN NORMAL LIMITS				
Incidence (%)	12 (100.0)	12 (100.0)	12 (100.0)	12 (100.0)
N	12	12	12	12
Mean time of death	15.5	15.5	15.5	9.4
nerve, optic				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
spinal cord				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)[f]	6 (100.0)[f]	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
ganglion, gasserian				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
sciatic, nerve, left				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5

[f] These tissues in low- and medium-dose animals were collected at necropsy but were not subsequently dissected from the vertebral column and examined grossly since they were not processed for micropathology. They are nevertheless listed as within normal limits to indicate that they were collected.

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
sciatic, nerve, right				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
nerve, sural, left				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
nerve, sural, right				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
nerve, tibial, left				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
nerve, tibial, right				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
spinal nerve roots				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)[£]	6 (100.0)[£]	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5
ganglion, dorsal root				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)[£]	6 (100.0)[£]	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5

[£] These tissues in low- and medium-dose animals were collected at necropsy but were not subsequently dissected from the vertebral column and examined grossly since they were not processed for micropathology. They are nevertheless listed as within normal limits to indicate that they were collected.

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
ORGANS OF SPECIAL SENSE				
eyes				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
ORGAN SYSTEM OTHER				
external observations				
SALIVATION				
Incidence (%)	0 (0.0)	0 (0.0)	0 (0.0)	4 (100.0)
N	0	0	0	4
Mean time of death	0.0	0.0	0.0	1.0
whole animal				
WITHIN NORMAL LIMITS				
Incidence (%)	12 (100.0)	11 (100.0)	12 (100.0)	8 (100.0)
N	12	11	12	8
Mean time of death	15.5	15.5	15.5	13.6
physical identifier				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	15.5	15.5	15.5	15.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 15:43

Necropsy Summary Incidence Report

Group	A	B	C	D
Dosage	0 Mg/Kg	20 Mg/Kg	150 Mg/Kg	600 Mg/Kg
No. of Animals	12	12	12	12
REPRODUCTIVE SYSTEM				
testicles				
REDUCED IN SIZE				
Incidence (%)	0 (0.0)	1 (100.0)	0 (0.0)	0 (0.0)
N	0	1	0	0
Mean time of death	0.0	15.0	0.0	0.0

[End of report]

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 14:43

Necropsy Summary Incidence Report

Group	A	B	E	F
Dosage	0 Mg/Kg	20 Mg/Kg	100 Mg/Kg	400 Mg/Kg
No. of Animals	12	12	12	12
INTEGUMENTARY SYSTEM				
skin, tail				
MISSING				
Incidence (%)	0 (0.0)	0 (0.0)	0 (0.0)	1 (100.0)
forelimb				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 14:43

Necropsy Summary Incidence Report

Group	A	B	E	F
Dosage	0 Mg/Kg	20 Mg/Kg	100 Mg/Kg	400 Mg/Kg
No. of Animals	12	12	12	12
MUSCULAR SYSTEM				
muscle, gastrocnemius				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 14:43

Necropsy Summary Incidence Report

Group	A	B	E	F
Dosage	0 Mg/Kg	20 Mg/Kg	100 Mg/Kg	400 Mg/Kg
No. of Animals	12	12	12	12
NERVOUS SYSTEM				
brain				
WITHIN NORMAL LIMITS				
Incidence (%)	12 (100.0)	12 (100.0)	12 (100.0)	12 (100.0)
N	12	12	12	12
Mean time of death	17.5	17.5	17.5	16.3
nerve, optic				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
spinal cord				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)[£]	6 (100.0)[£]	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
ganglion, gasserian				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
sciatic, nerve, left				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5

[£] These tissues in low- and medium-dose animals were collected at necropsy but were not subsequently dissected from the vertebral column and examined grossly since they were not processed for micropathology. They are nevertheless listed as within normal limits to indicate that they were collected.

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 14:43

Necropsy Summary Incidence Report

Group	A	B	E	F
Dosage	0 Mg/Kg	20 Mg/Kg	100 Mg/Kg	400 Mg/Kg
No. of Animals	12	12	12	12
sciatic, nerve, right				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
nerve, sural, left				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
nerve, sural, right				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
nerve, tibial, left				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
nerve, tibial, right				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 14:43

Necropsy Summary Incidence Report

Group	A	B	E	F
Dosage	0 Mg/Kg	20 Mg/Kg	100 Mg/Kg	400 Mg/Kg
No. of Animals	12	12	12	12
spinal nerve roots				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)[£]	6 (100.0)[£]	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5
ganglion, dorsal root				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)[£]	6 (100.0)[£]	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5

[£] These tissues in low- and medium-dose animals were collected at necropsy but were not subsequently dissected from the vertebral column and examined grossly since they were not processed for micropathology. They are nevertheless listed as within normal limits to indicate that they were collected.

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 14:43

Necropsy Summary Incidence Report

Group	A	B	E	F
Dosage	0 Mg/Kg	20 Mg/Kg	100 Mg/Kg	400 Mg/Kg
No. of Animals	12	12	12	12
ORGANS OF SPECIAL SENSE				
eyes				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-SUM
ALL ANIMALS

Date : 29-NOV-95
Time : 14:43
Page : 7

Necropsy Summary Incidence Report

Group	A	B	E	F
Dosage	0 Mg/Kg	20 Mg/Kg	100 Mg/Kg	400 Mg/Kg
No. of Animals	12	12	12	12
ORGAN SYSTEM OTHER				
external observations				
SALIVATION				
Incidence (%)	0 (0.0)	0 (0.0)	0 (0.0)	1 (100.0)
N	0	0	0	1
Mean time of death	0.0	0.0	0.0	4.0
VENTRUM WET/STAINED				
Incidence (%)	0 (0.0)	0 (0.0)	0 (0.0)	1 (100.0)
N	0	0	0	1
Mean time of death	0.0	0.0	0.0	4.0
whole animal				
WITHIN NORMAL LIMITS				
Incidence (%)	12 (100.0)	12 (100.0)	12 (100.0)	10 (100.0)
N	12	12	12	10
Mean time of death	17.5	17.5	17.5	17.5
physical identifier				
WITHIN NORMAL LIMITS				
Incidence (%)	6 (100.0)	6 (100.0)	6 (100.0)	6 (100.0)
N	6	6	6	6
Mean time of death	17.5	17.5	17.5	17.5

[End of report]

TABLE OW1K-SUM

ABSOLUTE AND RELATIVE ORGAN AND TERMINAL BODY WEIGHT SUMMARY

STUDY NUMBER 94-412-BF

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE OW1K-SUM
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:52

Mean Organ/Body Weight Ratios — Excluding Ill and Dead Animals.

MALES		Day 15 TermBW g	Day 15 Brain g	Day 15 Brn/BW %
0 Mg/Kg	Mean	239.5	1.564	0.654
	SD	17.1	0.102	0.023
	n	6	6	6
20 Mg/Kg	Mean	242.9	1.640	0.676
	SD	8.3	0.060	0.041
	n	6	6	6
150 Mg/Kg	Mean	243.6	1.628	0.670
	SD	17.5	0.096	0.044
	n	6	6	6
600 Mg/Kg	Mean	242.8	1.617	0.667
	SD	11.5	0.038	0.035
	n	6	6	6

Statistics: Anova + Dunnetts tests. (Two-Sided) * P<=5% ; Exp.Unit = Animal
TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE OW1K-SUM
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:53

Mean Organ/Body Weight Ratios

Excluding Ill and Dead Animals.

FEMALES		Day 17 TermBW g	Day 17 Brain g	Day 17 Brn/BW %
0 Mg/Kg	Mean	163.7	1.578	0.965
	SD	5.3	0.036	0.039
	n	6	6	6
20 Mg/Kg	Mean	153.9	1.577	1.025*
	SD	4.6	0.039	0.026
	n	6	6	6
100 Mg/Kg	Mean	164.3	1.564	0.953
	SD	6.3	0.054	0.028
	n	6	6	6
400 Mg/Kg	Mean	158.8	1.514	0.955
	SD	10.0	0.056	0.039
	n	6	6	6

Statistics: Anova + Dunnetts tests. (Two-Sided) * P<=5% ; Exp.Unit = Animal
TermBW = Terminal Body Weight Brain = Brain
Brn/BW = Brain/BW

TABLE MP1-SUM

MICROPATHOLOGY SUMMARY

(Incidence and Mean Lesion Grade)

STUDY NUMBER 94-412-BF

BAYER Agriculture Division - Toxicology

Date: 28NOV1995
Time: 15:58:14

Table NP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY W[redacted] TECHNICAL IN RATS

Study Number 94-412-BF

ORGAN and LESION		Males Level (MG/KG) 0	20	150	600
BRAIN, LEVEL 1	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	6
BRAIN, LEVEL 2	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	6
BRAIN, LEVEL 3	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	6
BRAIN, LEVEL 4	# Tissues Examined	6		6	6
No Abnormality Detected		5	-	6	5
Degeneration, Nerve Fiber		1 (1.0)	-	-	1 (2.0)
BRAIN, LEVEL 5	# Tissues Examined	6		6	6
No Abnormality Detected		5	-	6	4
Necrosis, Neuronal		-	-	-	1 (2.0)
Degeneration, Nerve Fiber		1 (1.0)	-	-	1 (3.0)
BRAIN, LEVEL 6	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	5

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
ER = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Date: 28NOV1995
Time: 15:58:14

Table MP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL IN RATS

Study Number 94-412-BF

ORGAN and LESION		Males Level (MG/KG) 0	20	150	600
BRAIN, LEVEL 6 (continued)					
Degeneration, Nerve Fiber		-	-	-	1 (1.0)
BRAIN, LEVEL 7	# Tissues Examined	6		6	6
No Abnormality Detected		-	-	1	1
Axonal Swelling		2 (1.0)	-	-	1 (1.0)
Degeneration, Nerve Fiber		6 (1.0)	-	5 (1.0)	4 (1.0)
BRAIN, LEVEL 8	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	5
Axonal Swelling		-	-	-	1 (1.0)
EYES	# Tissues Examined	6		0	6
No Abnormality Detected		2	-	-	2
FREE TEXT		1	-	-	-
Degeneration		1 (1.0)	-	-	1 (4.0)

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Table MP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted]TECHNICAL IN RATS

Study Number 94-412-BF

ORGAN and LESION		Males Level (MG/KG) 0	20	150	600
EYES (continued)					
Dysplasia		-	-	-	1 (2.0)
Synechia		1 (2.0)	-	-	-
Cataract		-	-	-	1 (1.0)
Mineralization, Cornea		4 (1.0)	-	-	4 (1.0)
GANGLION, DORSAL ROOT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
GANGLION, GASSERIAN	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
MUSCLE,GASTROCNEMIUS	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE, SURAL, LEFT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE, SURAL, RIGHT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
ER = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Table NP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL IN RATS

Study Number 94-412-RF

ORGAN and LESION		Males Level (MG/KG) 0	20	150	600
NERVE,SCIATIC,LEFT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE,SCIATIC,RIGHT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE,TIBIAL,LEFT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE,TIBIAL,RIGHT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
OPTIC NERVES	# Tissues Examined	6		0	6
No Abnormality Detected		5	-	-	5
Degeneration, Nerve Fiber		1 (1.0)	-	-	1 (4.0)
SPINAL CORD, CAUDA EQUINA	# Tissues Examined	6		0	6
No Abnormality Detected		2	-	-	4
Axonal Swelling		4 (1.0)	-	-	2 (1.0)
SPINAL CORD,CERVICAL	# Tissues Examined	6		0	6
No Abnormality Detected		2	-	-	3

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Date: 28NOV1995
Time: 15:58:14

Table MP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL IN RATS

Study Number 94-412-RF

ORGAN and LESION		Males Level (MG/KG) 0	20	150	600
SPINAL CORD,CERVICAL (continued)					
Axonal Swelling		3 (1.0)	-	-	2 (1.0)
Degeneration, Nerve Fiber		2 (1.0)	-	-	1 (1.0)
SPINAL CORD,LUMBAR	# Tissues Examined	6		0	6
No Abnormality Detected		3	-	-	1
Axonal Swelling		3 (1.0)	-	-	3 (1.0)
Degeneration, Nerve Fiber		-	-	-	2 (1.0)
SPINAL CORD,THORACIC	# Tissues Examined	6		0	6
No Abnormality Detected		4	-	-	4
Axonal Swelling		2 (1.0)	-	-	1 (1.0)
Degeneration, Nerve Fiber		1 (1.0)	-	-	2 (1.0)
SPINAL NERVE ROOTS	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Date: 28NOV1995
Time: 16:01:57

Table NP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL IN RATS

Study Number 94-412-BF

ORGAN and LESION		Females Level (MG/KG) 0	20	100	400
BRAIN, LEVEL 1	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	6
BRAIN, LEVEL 2	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	6
BRAIN, LEVEL 3	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	6
BRAIN, LEVEL 4	# Tissues Examined	6		6	6
No Abnormality Detected		5	-	6	6
Degeneration, Nerve Fiber		1 (2.0)	-	-	-
BRAIN, LEVEL 5	# Tissues Examined	6		6	6
No Abnormality Detected		5	-	6	5
Necrosis, Neuronal		-	-	-	1 (2.0)
Degeneration, Nerve Fiber		1 (3.0)	-	-	-
BRAIN, LEVEL 6	# Tissues Examined	6		6	6
No Abnormality Detected		5	-	6	6

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Date: 28NOV1995
Time: 16:01:58

Table MP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted]TECHNICAL IN RATS

Study Number 94-412-BF

ORGAN and LESION		Females Level (MG/KG) 0	20	100	400
BRAIN, LEVEL 6 (continued)					
Degeneration, Nerve Fiber		1 (1.0)	-	-	-
BRAIN, LEVEL 7	# Tissues Examined	6		6	6
No Abnormality Detected		3	-	-	2
Axonal Swelling		-	-	-	1 (1.0)
Degeneration, Nerve Fiber		3 (1.0)	-	6 (1.0)	4 (1.0)
BRAIN, LEVEL 8	# Tissues Examined	6		6	6
No Abnormality Detected		6	-	6	6
EYES	# Tissues Examined	6		0	6
No Abnormality Detected		3	-	-	5
Degeneration		1 (4.0)	-	-	-
Synechia		1 (2.0)	-	-	-
Mineralization, Cornea		3 (1.0)	-	-	1 (1.0)

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Table MP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL IN RATS

Study Number 94-412-NF

ORGAN and LESION		Females Level (MG/KG) 0	20	100	400
GANGLION, DORSAL ROOT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
GANGLION, GASSERIAN	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
MUSCLE,GASTROCNEMIUS	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE, SURAL, LEFT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE, SURAL, RIGHT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE,SCIATIC,LEFT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE,SCIATIC,RIGHT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE,TIBIAL,LEFT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6
NERVE,TIBIAL,RIGHT	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Table MP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL IN RATS

Study Number 94-412-BF

ORGAN and LESION		Females Level (MG/KG) 0	20	100	400
OPTIC NERVES	# Tissues Examined	6		0	6
No Abnormality Detected		5	-	-	6
Degeneration, Nerve Fiber		1 (4.0)	-	-	-
SPINAL CORD, CAUDA EQUINA	# Tissues Examined	6		0	6
No Abnormality Detected		4	-	-	2
Axonal Swelling		2 (1.0)	-	-	4 (1.0)
SPINAL CORD,CERVICAL	# Tissues Examined	6		0	6
No Abnormality Detected		2	-	-	3
Axonal Swelling		2 (1.0)	-	-	-
Degeneration, Nerve Fiber		2 (1.0)	-	-	3 (1.0)
SPINAL CORD,LUMBAR	# Tissues Examined	6		0	6
No Abnormality Detected		3	-	-	4
Axonal Swelling		3 (1.0)	-	-	2 (1.0)

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

BAYER Agriculture Division - Toxicology

Date: 28NOV1995
Time: 16:01:58

Table NP 1-SUM
MICROPATHOLOGY INCIDENCE AND AVERAGE GRADE SUMMARY
ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL IN RATS

Study Number 94-412-BF

ORGAN and LESION		Females Level (MG/KG) 0	20	100	400
SPINAL CORD,THORACIC	# Tissues Examined	6		0	6
No Abnormality Detected		-	-	-	1
Axonal Swelling		1 (1.0)	-	-	3 (1.0)
Degeneration, Nerve Fiber		5 (1.0)	-	-	4 (1.0)
SPINAL NERVE ROOTS	# Tissues Examined	6		0	6
No Abnormality Detected		6	-	-	6

() = Average severity of animals with lesion: 1 (minimal) to 5 (severe).
Blank severity field = neoplasm or lesion which is not graded.
* = Significantly different from control (p<=0.05).
- = No incidence.
NR = At least one ungraded lesion.

SECTION C

INDIVIDUAL DATA TABLES

TABLE GP1-IND

INDIVIDUAL GROSS PATHOLOGY DATA

STUDY NUMBER 94-412-BF

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted]TECHNICAL
Bayer Corp., Agriculture Division - Toxicology

Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 15:40

Necropsy History Report

Group: A Dosage: 0 Mg/Kg

Animal Number	Day of Death	Observation
BF0001	15	All findings normal
BF0002	16	All findings normal
BF0003	15	All findings normal
BF0004	16	All findings normal
BF0005	16	All findings normal
BF0006	16	All findings normal
BF0007	15	All findings normal
BF0008	15	All findings normal
BF0009	15	All findings normal
BF0010	15	All findings normal
BF0011	16	All findings normal
BF0012	16	All findings normal

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH[redacted]ECHNICAL
Bayer Corp., Agriculture Division - Toxi[redacted]

Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 15:40

N e c r o p s y H i s t o r y R e p o r t Group: B Dosage: 20 Mg/Kg

Animal Number	Day of Death	Observation
BF1001	16	All findings normal
BF1002	16	All findings normal
BF1003	16	All findings normal
BF1004	15	All findings normal
BF1005	15	All findings normal
BF1006	15	testicles, REDUCED IN SIZE, bilateral Remaining tissues normal
BF1007	16	All findings normal
BF1008	16	All findings normal
BF1009	15	All findings normal
BF1010	15	All findings normal
BF1011	15	All findings normal
BF1012	16	All findings normal

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 15:40

Necropsy History Report Group: C Dosage: 150 Mg/Kg

Animal Number	Day of Death	Observation
BF2001	15	All findings normal
BF2002	16	All findings normal
BF2003	16	All findings normal
BF2004	16	All findings normal
BF2005	16	All findings normal
BF2006	16	All findings normal
BF2007	15	All findings normal
BF2008	16	All findings normal
BF2009	15	All findings normal
BF2010	15	All findings normal
BF2011	15	All findings normal
BF2012	15	All findings normal

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 15:40

Necropsy History Report Group: D Dosage: 600 Mg/Kg

Animal Number	Day of Death	Observation
BF3001	15	All findings normal
BF3002	16	All findings normal
BF3003	16	All findings normal
BF3004	15	All findings normal
BF3005	1	external observations, SALIVATION, minimal salivary glands, submaxillary, VENTRAL NECK EDEMA Remaining tissues normal
BF3006	2	external observations, SALIVATION Remaining tissues normal
BF3007	0	All findings normal
BF3008	0	external observations, SALIVATION, minimal Remaining tissues normal
BF3009	16	All findings normal
BF3010	15	All findings normal
BF3011	1	external observations, SALIVATION Remaining tissues normal
BF3012	16	All findings normal

*** end of report ***

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 14:47

Necropsy History Report

Group: A Dosage: 0 Mg/Kg

Animal Number	Day of Death	Observation
BF0101	18	All findings normal
BF0102	17	All findings normal
BF0103	17	All findings normal
BF0104	18	All findings normal
BF0105	17	All findings normal
BF0106	17	All findings normal
BF0107	17	All findings normal
BF0108	17	All findings normal
BF0109	18	All findings normal
BF0110	18	All findings normal
BF0111	18	All findings normal
BF0112	18	All findings normal

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]ECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 14:47

Necropsy History Report Group: B Dosage: 20 Mg/Kg

Animal Number	Day of Death	Observation
BF1101	17	All findings normal
BF1102	18	All findings normal
BF1103	17	All findings normal
BF1104	17	All findings normal
BF1105	17	All findings normal
BF1106	18	All findings normal
BF1107	18	All findings normal
BF1108	18	All findings normal
BF1109	18	All findings normal
BF1110	18	All findings normal
BF1111	17	All findings normal
BF1112	17	All findings normal

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL
Bayer Corp., Agriculture Division - To[redacted]ology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 14:47

Necropsy History Report Group: E Dosage: 100 Mg/Kg

Animal Number	Day of Death	Observation
BF2101	17	All findings normal
BF2102	18	All findings normal
BF2103	17	All findings normal
BF2104	18	All findings normal
BF2105	18	All findings normal
BF2106	17	All findings normal
BF2107	18	All findings normal
BF2108	17	All findings normal
BF2109	18	All findings normal
BF2110	17	All findings normal
BF2111	18	All findings normal
BF2112	17	All findings normal

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female
Days : 0 to 28

TABLE GP1-IND
ALL ANIMALS

Date : 29-NOV-95
Time : 14:47

Necropsy History Report Group: F Dosage: 400 Mg/Kg

Animal Number	Day of Death	Observation
BF3101	17	skin, tail, MISSING DISTAL TIP MISSING Remaining tissues normal
BF3102	18	All findings normal
BF3103	4	external observations, SALIVATION external observations, VENTRUM WET/STAINED URINE STAIN Remaining tissues normal
BF3104	17	All findings normal
BF3105	18	All findings normal
BF3106	18	All findings normal
BF3107	17	All findings normal
BF3108	17	All findings normal
BF3109	17	All findings normal
BF3110	18	All findings normal
BF3111	17	All findings normal
BF3112	18	All findings normal

*** end of report ***

TABLE OW1K-IND

INDIVIDUAL ABSOLUTE AND RELATIVE

ORGAN AND TERMINAL BODY WEIGHT DATA

STUDY NUMBER 94-412-BF

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:58

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

MALES	Animal No.	Day 15 TermBW g	Day 15 Brain g	Day 15 Brn/BW %
0 Mg/Kg	A BF0003	249.3	1.558	0.625
	A BF0004	219.0	1.436	0.656
	A BF0005	258.0	1.614	0.626
	A BF0006	251.2	1.677	0.668
	A BF0007	217.9	1.449	0.665
	A BF0009	241.4	1.647	0.682
0 Mg/Kg	Mean	239.5	1.564	0.654
	SD	17.1	0.102	0.023
	n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL
Bayer Corp., Agriculture Division - Tox[redacted]
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:58

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

MALES		Animal No.	Day 15 TermBW g	Day 15 Brain g	Day 15 Brn/BW %
20 Mg/Kg	B	BF1003	254.5	1.599	0.628
	B	BF1004	236.8	1.574	0.665
	B	BF1006	249.5	1.615	0.647
	B	BF1007	242.6	1.719	0.709
	B	BF1011	242.5	1.622	0.669
	B	BF1012	231.7	1.711	0.738
20 Mg/Kg		Mean	242.9	1.640	0.676
		SD	8.3	0.060	0.041
		n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:58

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

MALES		Animal No.	Day 15 TermBW g	Day 15 Brain g	Day 15 Brn/BW %
150 Mg/Kg	C	BF2001	215.1	1.594	0.741
	C	BF2002	246.1	1.708	0.694
	C	BF2006	257.6	1.595	0.619
	C	BF2008	264.8	1.781	0.673
	C	BF2011	242.9	1.538	0.633
	C	BF2012	235.3	1.552	0.660
150 Mg/Kg		Mean	243.6	1.628	0.670
		SD	17.5	0.096	0.044
		n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]BCHEMICAL
Bayer Corp., Agriculture Division - Tox[redacted]
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:58

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

MALES		Animal No.	Day 15 TermBW g	Day 15 Brain g	Day 15 Brn/BW %
600 Mg/Kg	D	BF3001	238.0	1.578	0.663
	D	BF3002	251.9	1.655	0.657
	D	BF3004	253.6	1.567	0.618
	D	BF3009	253.1	1.644	0.650
	D	BF3010	227.6	1.610	0.707
	D	BF3012	232.7	1.646	0.707
600 Mg/Kg		Mean	242.8	1.617	0.667
		SD	11.5	0.038	0.035
		n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]ECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:57

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

FEMALES		Animal No.	Day 17 TermBW g	Day 17 Brain g	Day 17 Brn/BW %
0 Mg/Kg	A	BF0101	164.0	1.516	0.924
	A	BF0102	157.1	1.605	1.022
	A	BF0105	161.1	1.577	0.979
	A	BF0107	159.9	1.582	0.989
	A	BF0109	169.7	1.620	0.955
	A	BF0112	170.2	1.566	0.920
0 Mg/Kg		Mean	163.7	1.578	0.965
		SD	5.3	0.036	0.039
		n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:57

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

FEMALES		Animal No.	Day 17 TermBW g	Day 17 Brain g	Day 17 Brn/BW %
20 Mg/Kg	B	BF1101	148.8	1.536	1.038
	B	BF1102	157.9	1.581	1.001
	B	BF1104	149.7	1.529	1.021
	B	BF1105	154.8	1.626	1.050
	B	BF1106	153.2	1.612	1.052
	B	BF1107	159.9	1.580	0.988
20 Mg/Kg		Mean	153.9	1.577	1.025
		SD	4.6	0.039	0.026
		n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:57

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

FEMALES		Animal No.	Day 17 TermBW g	Day 17 Brain g	Day 17 Brn/BW %
100 Mg/Kg	E	BF2101	165.6	1.619	0.978
	E	BF2102	154.4	1.469	0.951
	E	BF2103	173.1	1.577	0.911
	E	BF2106	166.9	1.600	0.959
	E	BF2107	164.8	1.535	0.931
	E	BF2111	160.7	1.583	0.985
100 Mg/Kg		Mean	164.3	1.564	0.953
		SD	6.3	0.054	0.028
		n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE OW1K-IND
KILLED ANIMALS

Date : 29-NOV-95
Time : 14:57

Individual Organ/Body Weight Ratios (with means) Excluding Ill and Dead Animals.

FEMALES		Animal No.	Day 17 TermBW g	Day 17 Brain g	Day 17 Brn/BW %
400 Mg/Kg	F	BF3101	153.6	1.502	0.978
	F	BF3105	152.6	1.528	1.001
	F	BF3107	150.4	1.433	0.953
	F	BF3108	154.0	1.507	0.979
	F	BF3110	166.9	1.503	0.901
	F	BF3112	175.5	1.608	0.916
400 Mg/Kg		Mean	158.8	1.514	0.955
		SD	10.0	0.056	0.039
		n	6	6	6

TermBW = Terminal Body Weight
Brn/BW = Brain/BW
Brain = Brain

TABLE GPMP1-IND

INDIVIDUAL GROSS PATHOLOGY/MICROPATHOLOGY DATA WITH A GROSS/MICROPATHOLOGY CORRELATION

STUDY NUMBER 94-412-BF

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:09
Page : 1

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0003 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,CERVICAL Degeneration, Nerve Fiber Minimal

SPINAL CORD, CAUDA EQUINA Axonal Swelling Minimal

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,LUMBAR, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-RF
Species: Rat
Sex : Male

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:09

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: RF0004 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Bilateral
SPINAL CORD,CERVICAL	Axonal Swelling Minimal
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
SPINAL CORD,THORACIC	Axonal Swelling Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:09

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0005 Death: 13-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Bilateral
BRAIN, LEVEL 7	Axonal Swelling Minimal : CEREBELLAR NUCLEUS
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,CERVICAL, SPINAL CORD,LUMBAR, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:09

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0006 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES 'RIGHT EYE TORN AT NECROPSY;LENS LOST; REMAINING TISSUE NORMAL.'

SPINAL CORD,LUMBAR Axonal Swelling Minimal

BRAIN, LEVEL 7,Trapezoid Body Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,CERVICAL, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0007 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Left Synechia Slight Left
EYES,Retina	Degeneration Minimal Left
OPTIC NERVES	Degeneration, Nerve Fiber Minimal Left
SPINAL CORD,CERVICAL	Degeneration, Nerve Fiber Minimal Axonal Swelling Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal Axonal Swelling Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 4,Optic Chiasma	Degeneration, Nerve Fiber Minimal Left : ROSTRAL CHIASM
BRAIN, LEVEL 5,Optic Tract	Degeneration, Nerve Fiber Minimal Right
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0009 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Bilateral
SPINAL CORD,CERVICAL	Axonal Swelling Minimal
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal
BRAIN, LEVEL 7	Axonal Swelling Minimal : CEREBELLAR WHITE MATTER

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : C Dose : 150 Mg/Kg

Animal: BF2001 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted]TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:09

Pathology History Report Group : C Dose : 150 Mg/Kg

Animal: BF2002 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 7, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : C Dose : 150 Mg/Kg

Animal: BF2006 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:09

Pathology History Report Group : C Dose : 150 Mg/Kg

Animal: BF2008 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Male

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:09

Pathology History Report Group : C Dose : 150 Mg/Kg

Animal: BF2011 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : C Dose : 150 Mg/Kg

Animal: BF2012 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : D Dose : 600 Mg/Kg

Animal: BF3001 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Left
EYES,Retina	Degeneration Marked Right
EYES	Cataract Minimal Right
OPTIC NERVES	Degeneration, Nerve Fiber Marked Right
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal Axonal Swelling Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 4,Optic Chiasma	Degeneration, Nerve Fiber Slight Left
BRAIN, LEVEL 5,Optic Tract	Degeneration, Nerve Fiber Moderate Left
BRAIN, LEVEL 6,Superior Colliculus	Degeneration, Nerve Fiber Minimal Left
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal
BRAIN, LEVEL 8	Axonal Swelling Minimal : CUNEATE NUCLEUS

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, SPINAL CORD,CERVICAL, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3

Key : [U] indicates unverified observation

Pathology History Report Group : D Dose : 600 Mg/Kg

Animal: BF3002 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,LUMBAR Degeneration, Nerve Fiber Minimal

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,CERVICAL, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Tox[redacted]
Study : 94-412-BF TABLE GPMP1-IND
Species: Rat
Sex : Male

Date : 29-NOV-95
Time : 09:09

P a t h o l o g y H i s t o r y R e p o r t Group : D Dose : 600 Mg/Kg

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Animal: BF3004 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,CERVICAL Axonal Swelling Minimal

SPINAL CORD,LUMBAR Axonal Swelling Minimal

SPINAL CORD, CAUDA EQUINA Axonal Swelling Minimal

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : D Dose : 600 Mg/Kg

Animal: BF3009 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Left
EYES,Retina	Dysplasia Slight Right : WITH RETINAL DETACHMENT
SPINAL CORD,CERVICAL	Degeneration, Nerve Fiber Minimal
SPINAL CORD,LUMBAR	Degeneration, Nerve Fiber Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal
BRAIN, LEVEL 5,Thalamus	Necrosis, Neuronal Slight : REGION OF REUNIENS THALAMIC NUCLEUS

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 6, BRAIN, LEVEL 7, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : D Dose : 600 Mg/Kg

Animal: BF3010 Death: 11-OCT-94 Day: 15 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Right
BRAIN, LEVEL 7	Axonal Swelling Minimal : VESTIBULAR NUCLEUS

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,CERVICAL, SPINAL CORD,LUMBAR, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : D Dose : 600 Mg/Kg

Animal: BF3012 Death: 12-OCT-94 Day: 16 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Right
SPINAL CORD,CERVICAL	Axonal Swelling Minimal
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,THORACIC, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:11
Page : 1

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0101 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,CERVICAL	Axonal Swelling Minimal
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 7, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:11

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0102 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,CERVICAL	Axonal Swelling Minimal
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WIT[redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:11

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0105 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES,Retina	Degeneration Marked Left
EYES	Synechia Slight Left Mineralization, Cornea Minimal Right
OPTIC NERVES	Degeneration, Nerve Fiber Marked Left
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal
BRAIN, LEVEL 4,Optic Chiasma	Degeneration, Nerve Fiber Slight Left : ROSTRAL CHIASM
BRAIN, LEVEL 5,Optic Tract	Degeneration, Nerve Fiber Moderate Right
BRAIN, LEVEL 6,Superior Colliculus	Degeneration, Nerve Fiber Minimal Right

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, SPINAL CORD,CERVICAL, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 7, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0107 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,CERVICAL	Degeneration, Nerve Fiber Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 7, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0109 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Left
SPINAL CORD,THORACIC	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,CERVICAL, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:11

Pathology History Report Group : A Dose : 0 Mg/Kg

Animal: BF0112 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

EYES	Mineralization, Cornea Minimal Bilateral
SPINAL CORD,CERVICAL	Degeneration, Nerve Fiber Minimal
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:11
Page : 7

Pathology History Report Group : E Dose : 100 Mg/Kg

Animal: BF2101 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : H Dose : 100 Mg/Kg

Animal: BF2102 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

RAT ACUTE ORAL NEUROTOXICITY STUDY WITH [redacted] TECHNICAL
Bayer Corp., Agriculture Division - Toxicology
Study : 94-412-BF
Species: Rat
Sex : Female

TABLE GPMP1-IND

Date : 29-NOV-95
Time : 09:11
Page : 9

Pathology History Report Group : E Dose : 100 Mg/Kg

Animal: BF2103 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : E Dose : 100 Mg/Kg

Animal: BF2106 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : E Dose : 100 Mg/Kg

Animal: BF2107 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : E Dose : 100 Mg/Kg

Animal: BF2111 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

BRAIN, LEVEL 7,Trapezoid Body
Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : F Dose : 400 Mg/Kg

Animal: BF3101 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

skin, tail	MISSING DISTAL TIP MISSING

Organs not mentioned with remarkable findings are NORMAL

PATHOLOGY:

SPINAL CORD,CERVICAL	Degeneration, Nerve Fiber Minimal
SPINAL CORD,LUMBAR	Axonal Swelling Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 5,Thalamus	Necrosis, Neuronal Slight : REGION OF REUNIENS THALAMIC NUCLEUS

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 6, BRAIN, LEVEL 7, BRAIN, LEVEL 8

WARNING - The following tissues abnormal at Necropsy have no corresponding microscopic findings :
SKIN,TAIL

Key : [U] indicates unverified observation

Pathology History Report Group : F Dose : 400 Mg/Kg

Animal: BF3105 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,THORACIC Degeneration, Nerve Fiber Minimal
Axonal Swelling Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,CERVICAL, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL CORD, CAUDA EQUINA, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 7, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : F Dose : 400 Mg/Kg

Animal: BF3107 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,CERVICAL	Degeneration, Nerve Fiber Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : F Dose : 400 Mg/Kg

Animal: BF3108 Death: 13-OCT-94 Day: 17 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,CERVICAL	Degeneration, Nerve Fiber Minimal
SPINAL CORD,THORACIC	Degeneration, Nerve Fiber Minimal Axonal Swelling Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation

Pathology History Report Group : F Dose : 400 Mg/Kg

Animal: BF3110 Death: 14-OCT-94 Day: 18 Mode: Kill (Scheduled)

NECROPSY:

All findings normal

PATHOLOGY:

SPINAL CORD,THORACIC	Axonal Swelling Minimal
SPINAL CORD, CAUDA EQUINA	Axonal Swelling Minimal
BRAIN, LEVEL 7,Trapezoid Body	Degeneration, Nerve Fiber Minimal
BRAIN, LEVEL 7	Axonal Swelling Minimal : VESTIBULAR NUCLEUS

The following tissues were found to be normal

EYES, MUSCLE,GASTROCNEMIUS, NERVE,SCIATIC,LEFT, NERVE,SCIATIC,RIGHT, OPTIC NERVES, SPINAL CORD,CERVICAL, SPINAL CORD,LUMBAR, GANGLION, GASSERIAN, GANGLION, DORSAL ROOT, NERVE,TIBIAL,LEFT, NERVE,TIBIAL,RIGHT, NERVE, SURAL, LEFT, NERVE, SURAL, RIGHT, SPINAL NERVE ROOTS, BRAIN, LEVEL 1, BRAIN, LEVEL 2, BRAIN, LEVEL 3, BRAIN, LEVEL 4, BRAIN, LEVEL 5, BRAIN, LEVEL 6, BRAIN, LEVEL 8

Key : [U] indicates unverified observation