

ORIGINAL

TSCA NON-CONFIDENTIAL BUSINESS INFORMATION

DOCUMENT DESCRIPTION	DOCUMENT CONTROL NUMBER	DATE RECEIVED
8EHQ-95-13401	89100000097	1/11/09

COMMENTS:

DOES NOT CONTAIN CBI



RECEIVED
OFFICE

10 JAN 11 AM 6:02

DuPont Chemical Solutions Enterprise
Barley Mill Plaza 23
4417 Lancaster Pike
Wilmington, DE 19805

January 6, 2010

Via Federal Express

Document Processing Center (Mail Code 7407M)
Room 6428
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency, ICC Building
1201 Constitution Ave., NW
Washington, DC 20004



8EHQ-0110-13401B
DCN: 89100000097

Dear 8(e) Coordinator:

8EHQ-95-13401 – Supplement
70% Technical Grade Glycolic Acid

This submission is a supplement to our March 3rd, 2009 submission to the above-identified 8(e) file.

In the March 3rd submission, preliminary results were provided for a recently conducted developmental toxicity study in rats with the test substance generically identified above and specifically comprised of 71.3% glycolic acid (CAS No. 79-14-1), 1.0% methoxyacetic acid (CAS No. 625-45-6), 1.0% diglycolic acid (CAS No. 110-99-6), 0.3% formic acid (CAS No. 64-18-6), and 0.04 ppm formaldehyde (CAS No. 50-00-0) in water. The design of the study and the results were summarized in the March 3rd letter.

The study final report (DuPont-18011-841) has been completed and is enclosed for the Agency's information. Also enclosed for the Agency's information is a second document, prepared by DuPont, entitled "Review of Glycolic Acid-mediated developmental toxicity in experimental animal studies and their relevance to human health" (referred to below as the "Review").

As reported in our March 3rd submission, developmental toxicity was evident in this study at the highest dose tested (900 mg/kg/day) and consisted of reduced fetal weight and increased fetal malformations and variations. There was no evidence of developmental toxicity at 300 mg/kg/day (NOEL) or below. There was no test substance-related maternal toxicity observed at any dose level. The results of this study are consistent with previous studies, with the exception of the absence of maternal toxicity at the highest dose. A significant difference in the conduct of this study versus previous studies was the use of a buffered dose solution to comply with current animal welfare guidelines. The NOEL for this study is higher than previously observed (300 mg/kg/d vs. 250 mg/kg/d).

The enclosed Review document summarizes the currently available developmental toxicity studies known to DuPont on glycolic acid and a metabolic precursor chemical, ethylene glycol. The Review highlights species differences observed in response to glycolic acid or ethylene glycol exposure during development and assesses the relevance of these observations to human health. Among these species differences are important physiologic differences in pH between the maternal and fetal compartments of rabbits (a non-responsive species to ethylene glycol in developmental toxicity studies) compared to rats (a responsive

CONTAINS NO CBI

323806

species to ethylene glycol in developmental toxicity studies). Rabbits are more closely aligned with the human physiologic situation relative to this parameter.

In addition, it is clear from the studies referenced in the review that high doses and dose rates that saturate glycolic acid oxidation are required for developmental effects. The doses required to saturate glycolic acid oxidation have been assessed as corresponding to an internal dose that is estimated to be unattainable in humans exposed to glycolic acid by skin contact and/or inhalation, leading NICNAS (National Industrial Chemicals Notification and Assessment Scheme) of Australia to conclude that the developmental toxicity seen in experimental animals is not relevant to humans. The NTP-CERHR Expert Panel also indicated that the dose required to reach potential saturation of glycolic acid metabolism in humans is 125 mg/kg/day. The exposure estimates summarized in the enclosed Review document show that reaching this level of exposure in humans is highly unlikely.

The sum of the findings in the studies suggests the rat is not the most relevant animal model for assessing potential risk of glycolic acid-mediated developmental toxicity in humans and caution against the direct extrapolation of glycolic acid-mediated developmental toxicity observed in rodents to predict the response in humans. This information also supports the current classification of glycolic acid by NICNAS and the European Chemicals Bureau (not classified as a developmental toxicant).

Based on the published information and assessment described in the enclosed Review document, with a focus on the relevance of the observed effect towards humans, DuPont's current position on classification of glycolic acid is unchanged. DuPont does not classify glycolic acid as a developmental toxicant.

Sincerely,



Robert W. Freerksen
Regulatory Programs Manager
DuPont Chemicals and Fluoroproducts

Enclosures:

- 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats (DuPont-18011-841)
- Review of Glycolic Acid-mediated developmental toxicity in experimental animal studies and their relevance to human health

Fax: 302-355-2528 Tel: 302-892-7781

E.I. du Pont de Nemours and Company

From: Origin ID: ILGA (302) 892-7781
 Robert W. Freerksen
 DuPont Barley Mill Plaza
 4417 Lancaster Pike
 Building 23 Room 1324
 Wilmington, DE 19805



J09300987312823

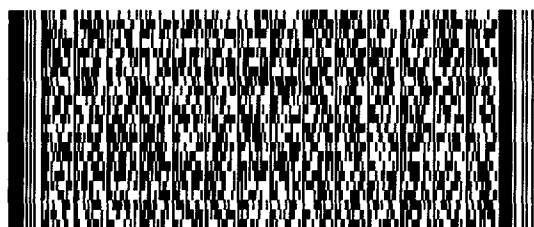
Ship Date: 07JAN10
 ActWgt: 5.0 LB
 CAD: 9139556/INET9090
 Account#: S *****

Delivery Address Bar Code



Ref #
 Invoice #
 PO #
 Dept #

SHIP TO: (202) 564-8940 BILL SENDER
Attention: 8(e) Coordinator
US Environmental Protection Agency
1201 CONSTITUTION AVE NW
DOC PRO CTR MAIL CODE 7407M RM 6428
WASHINGTON, DC 20460

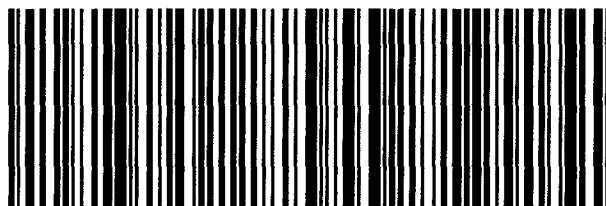


TRK# 7982 7900 0523
 0201

FRI - 08JAN A1
STANDARD OVERNIGHT

ZD RDVA

20460
 DC-US
 DCA



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

TRADE SECRET

Unpublished Work
Copyright ©2009 E.I. du Pont de Nemours and Company

STUDY TITLE: (H-28746) 70% Glycolic Acid Technical Solution:
Developmental Toxicity Study in Rats

TEST GUIDELINES: U.S. EPA Health Effects Test Guidelines
OPPTS 870.3700 (1998)

OECD Guideline for the Testing of Chemicals
Section 4 (Part 414) (2001)

EEC Methods for the Determination of Toxicity
Method B Directive 87/302/EEC (1987)

MAFF Japan Testing Guidelines for Toxicity Studies
12 Nousan Section 3, 2-1-18 (2000)

AUTHOR: Joseph M. Lewis, B.A.

STUDY COMPLETED ON: December 11, 2009

PERFORMING LABORATORY: E.I. du Pont de Nemours and Company
DuPont Haskell Global Centers
for Health & Environmental Sciences
P.O. Box 50
Newark, Delaware 19714
U.S.A.

LABORATORY PROJECT ID: DuPont-18011-841

WORK REQUEST NUMBER: 18011

SERVICE CODE NUMBER: 841

SPONSOR: E.I. du Pont de Nemours and Company
Wilmington, Delaware 19898
U.S.A.

GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

This study was conducted in compliance with U.S. EPA TSCA (40 CFR part 792) Good Laboratory Practice Standards, which are compatible with current OECD and MAFF (Japan) Good Laboratory Practices, except for the item documented below. The item listed does not impact the validity of the study.

The test substance was not characterized prior to the initiation of this study. However, the test substance was characterized soon after initiation of the in-life phase of the study and the Certificate of Analysis (COA) is provided in Appendix A.

Study Director: Joseph M. Lewis 11-Dec-2009
Joseph M. Lewis, B.A. Date
Senior Staff Toxicologist

QUALITY ASSURANCE STATEMENT

Work Request Number: 18011
Service Code Number: 841

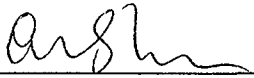
Key inspections for DuPont work request 18011, service code 841 were completed by the Quality Assurance Unit of DuPont and the findings were submitted on the following dates.

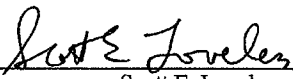
<i>Phase Audited</i>	<i>Audit Dates</i>	<i>Date Reported to Study Director</i>	<i>Date Reported to Management</i>
Protocol:	November 21, 2008	November 21, 2008	November 21, 2008
Conduct:	November 21, 2008 December 9, 2008	November 21, 2008 December 9, 2008	November 21, 2008 December 9, 2008
Report/Records:	February 25-27, 2009 April 01, 02, 2009	February 27, 2009 April 02, 2009	March 03, 2009 April 06, 2009

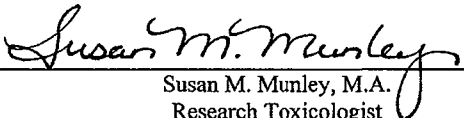
Reported by: Donna M. Johnston for A. Pedulla 04 Dec. 2009
Antonio Pedulla Date
Quality Assurance Auditor

CERTIFICATION

We, the undersigned, declare that this report provides an accurate evaluation of data obtained from this study.

Analytical Evaluation by:  03-Dec-2009
Z. Amanda Shen, Ph.D.
Senior Research Chemist
Date

Approved by:  07 Dec 2009
Scott E. Loveless, Ph.D.
Manager
Date

Reviewed by:  4-DEC-2009
Susan M. Munley, M.A.
Research Toxicologist
Date

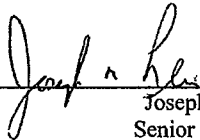
Issued by Study Director:  11-Dec-2009
Joseph M. Lewis, B.A.
Senior Staff Toxicologist
Date

TABLE OF CONTENTS

	Page
GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT.....	2
QUALITY ASSURANCE STATEMENT	3
CERTIFICATION.....	4
TABLE OF CONTENTS	5
LIST OF TABLES	7
LIST OF FIGURES	7
LIST OF APPENDICES	7
STUDY INFORMATION	8
SUMMARY	9
INTRODUCTION AND OBJECTIVE.....	11
ANIMAL WELFARE ACT COMPLIANCE	11
STUDY DESIGN.....	12
A. Treatment Groups and Daily Dosage.....	12
B. Treatment and Sacrifice Schedules.....	12
C. Selection of Dose Levels	12
MATERIALS AND METHODS	13
A. Test Guidelines	13
B. Test Substance, Vehicle, and Analytical Chemistry	13
1. Vehicle	13
2. Test Substance.....	13
C. Test System and Justification for Animal Model	14
D. Animal Husbandry	15
1. Housing	15
2. Environmental Conditions.....	15
3. Feed and Water	15
E. Animal Health and Environmental Monitoring Program	15
F. Quarantine and Pretest	16
G. Randomization	16
H. Parameters Studied.....	16
1. In-life Observations of Females	16
2. Postmortem Evaluations.....	16
I. Statistical Methods.....	18
RESULTS AND DISCUSSION	19
Analytical Evaluation	19
Developmental Toxicology	19
A. Maternal Body Weights and Body Weight Changes	19

B. Maternal Food Consumption	19
C. Maternal Mortality and Clinical Observations	19
D. Maternal Gross Observations.....	19
E. Reproductive Outcome and Litter Data	20
F. Fetal Alterations.....	20
1. Malformations	20
2. Variations	20
CONCLUSIONS	20
RECORDS AND SAMPLE STORAGE	21
REFERENCES.....	21
REFERENCES FOR STATISTICAL METHODS.....	23
TABLES.....	24
FIGURES.....	40
APPENDICES	42

LIST OF TABLES

	Page
Table 1	Mean Maternal Body Weights .....26
Table 2	Mean Maternal Body Weight Changes .....28
Table 3	Mean Maternal Food Consumption .....29
Table 4	Summary of Maternal Clinical Observations .....30
Table 5	Summary of Maternal Gross Observations .....30
Table 6	Reproductive Outcome .....31
Table 7	Incidence of Fetal Malformations and Variations .....33

LIST OF FIGURES

	Page
Figure 1	Mean Maternal Body Weights .....41

LIST OF APPENDICES

	Page
Appendix A	Certificate of Analysis .....44
Appendix B	Protocol and Protocol Amendments .....46
Appendix C	Analysis for Test Substance in Dosing Formulations .....62
Appendix D	Individual Maternal Body Weights .....70
Appendix E	Individual Maternal Body Weight Gains .....79
Appendix F	Individual Maternal Net Body Weight And Body Weight Change .....88
Appendix G	Individual Maternal Food Consumption .....93
Appendix H	Individual Maternal Clinical Observations .....98
Appendix I	Individual Maternal Gross Observations .....115
Appendix J	Individual Reproductive Data .....123
Appendix K	Individual Litter Data .....129
Appendix L	Individual Fetal Data .....134

STUDY INFORMATION

Substance Tested: • 70% Glycolic Acid
• 79-14-1 (CAS Number)
• H-28746

Synonyms: • Hydroxyacetic Acid

Haskell Number: 28746

Composition: 0.280% Formic Acid
1.04% Methoxyacetic Acid
0.968% Diglycolic Acid
0.0364 ppm Formaldehyde
71.3% Glycolic Acid
26.4% Water

Purity: 71.3%

Physical Characteristics: Light amber liquid

Stability: The test substance appeared to be stable under the conditions of the study; no evidence of instability was observed.

Study Initiated/Completed: November 20, 2008 / (see report cover page)

Experimental Start/Termination: November 23, 2008 / January 6, 2009

In-Life Initiated/Completed: November 23, 2008 / December 11, 2008

Notebook Number(s): E-113111-AS

SUMMARY

Groups of 22 time-mated Crl:CD(SD) rats were administered formulations of the test substance in deionized water by once daily gavage on gestation days (GD) 6-20 at daily dose levels of 0, 100, 300, or 900 mg/kg/day. The dose volume was 10 ml/kg for all groups. The control group rats were dosed with deionized water only. Current animal welfare guidance necessitated buffering the dosing formulations to a pH of 3 (acceptable range of 3-8) for the control and treatment groups. The test substance comprised of 71.3% glycolic acid (CAS 79-14-1), 1.0% methoxyacetic acid (CAS 625-45-6), 1.0% diglycolic acid (CAS 110-99-6), 0.3% formic acid (CAS 64-18-6), and 0.04ppm formaldehyde (CAS 50-00-0) in water. For purposes of dose formulation preparation and calculations, the sample purity was assumed to be 100% of the 70% Glycolic Acid (GA) technical grade material. Dose formulations were determined to be stable under conditions of use and at targeted concentrations. During the in-life portion of the study, maternal clinical observations, body weights, and food consumption data were collected. On GD 21, all dams were euthanized and a gross external and visceral examination was performed. The uterus of each pregnant female was removed and the uterine contents were examined and described; all fetuses were removed and individually identified, weighed, sexed, and examined for external alterations. Approximately, one-half of the fetuses were examined for soft tissue alterations; all fetuses were examined for skeletal alterations.

Maternal toxicity was not evident at any level tested.

Developmental toxicity was evident at 900 mg/kg/day and consisted of reduced mean fetal weight (10% lower than control group) and increased fetal malformations and variations. Two litters at 900 mg/kg/day had malformed fetuses. These malformations included absent and fused ribs, hemivertebrae, sternoschisis, gastroschisis, macrophthalmia, and absent stomach, spleen, pancreas, and intestines. In addition, there was an increased incidence of fetal variations which included bipartite ossification of the thoracic and/or lumbar centrum, misaligned sternbrae, and supernumerary ribs (short and/or full). There was no evidence of developmental toxicity at 300 mg/kg/day or lower.

The mean number of *corpora lutea*, implantation sites, resorptions, live fetuses, and sex ratio were comparable across all groups.

In conclusion, under the conditions of this study, the no-observed-adverse-effect level (NOAEL) for maternal toxicity was 900 mg/kg/day, the highest level tested. The NOAEL for developmental toxicity was 300 mg/kg/day as a result of reduced mean fetal weight and increased incidence of fetal malformations and variations at 900 mg/kg/day.

The potential developmental toxicity of GA has been studied previously under varying experimental conditions. Therefore, it is relevant to consider the current study conclusions listed above as they relate to a broader database of available data. Developmental toxicity at doses similar to those reported herein has been observed in previous rat developmental toxicity studies^(1,2) with (GA). The current study results differ from previous studies in that maternal toxicity was not observed in the current study, whereas, in the earlier work, maternal and developmental toxicity was observed at the same dose levels. The previous data were collected

using dosing formulations with relatively low pH (< 2). Current animal welfare guidance necessitated buffering the dosing formulations to a minimum of pH 3. It is relevant to note that the pH of the dosing formulation for these studies differed by approximately 1 to 2 pH units. This seemingly minor alteration in experimental design mitigated maternal toxicity such that dams dosed at 1000 mg/kg/day (unbuffered formulation in the prior studies) manifested marked adverse effects including mortality. In this new study, no evidence of toxicity was observed in dams dosed at 900 mg/kg/day (buffered formulations). Studies in the literature⁽³⁾ suggest that maternal toxicity seen in previous GA developmental toxicity studies using buffered formulations, was likely the result of maternal metabolic acidosis, a condition which was mitigated in the current study by the introduction of the basic buffer. Therefore, it should be noted that the fetal findings reported herein do not comprise new findings.

As stated previously, the potential for GA to produce developmental toxicity in rats has been demonstrated in previous DuPont studies. GA-mediated developmental toxicity has also been studied by researchers investigating the mechanism by which ethylene glycol (EG) produces developmental toxicity in the rat. These mechanistic studies^(4,5,6,7) reveal that a possible mode of action by which GA may produce developmental toxicity is via intra-amniotic ion-trapping mediated by a pH gradient leading to higher intra-amniotic ion concentrations. The physiologic differences in pH between the rat maternal and fetal compartments drive the gradient such that direct embryo fetal exposures are potentiated. In contrast, the physiologic differences in the human maternal and fetal environments are reversed relative to rats and thus, direct embryo fetal exposure to GA may be substantially reduced.⁽⁸⁾ Therefore, the rat may not be a relevant animal model for assessing potential developmental toxicity of GA to humans.

Thus, the current study results and conclusions which are described above indicate that developmental toxicity in the rat is produced at a level that did not produce maternal toxicity. An analysis of the GA developmental toxicity database provides considerable perspective around this conclusion. The current study confirmed that GA produces developmental toxicity in rats and suggest that maternal toxicity or the lack thereof is dependent on the pH of the dosing formulation.

INTRODUCTION AND OBJECTIVE

The objective of this study was to evaluate the potential maternal and developmental toxicity of the test substance in rats. The test substance was administered by oral gavage to pregnant rats daily from around the time of implantation to the end of gestation, days 6-20 of gestation (days 6-20G). The oral route is the route that is recommended by regulatory agencies for this type of study.

ANIMAL WELFARE ACT COMPLIANCE

This study complied with all applicable sections of the Final Rules of the Animal Welfare Act regulations (9 CFR) and the Guidelines from the Guide for the Care and Use of Laboratory Animals (NRC 1996). All studies conducted by or for DuPont Haskell adhere to the following principles:

- The sponsor and/or the study director ensures that the study described in this report does not unnecessarily duplicate previous experiments, and is in compliance with the DuPont Policy on Animal Testing.
- Whenever possible, procedures used in this study have been designed to implement a reduction, replacement, and/or refinement in the use of animals in an effort to avoid or minimize discomfort, distress or pain to animals. All methods are described in this study report or in written laboratory standard operating procedures.
- DuPont Haskell policy is that animals experiencing severe pain or distress that cannot be relieved are painlessly euthanized, as deemed appropriate by the veterinary staff and study director or appropriate designee.
- Methods of euthanasia used during this study were in conformance with the above referenced regulation and the recommendations of the American Veterinary Medical Association (AVMA), 2007 Guidelines on Euthanasia.
- Animals were provided with species-appropriate environmental enrichment.
- DuPont Haskell is accredited by the Association for the Assessment and Accreditation of Laboratory Animal Care (AAALAC) International.

STUDY DESIGN

A. Treatment Groups and Daily Dosage

Group	Exposure (mg/kg/day) ^a	Suspension Concentration (mg/mL) ^b	Time-Mated Females
1	0 ^c	0	22
2	100	10	22
3	300	30	22
4	900	90	22

- a Formulations of test substance in deionized water was administered once daily by oral gavage on days 6-20G at a dosing volume of 10 mL/kg.
- b Sample purity was assumed to be 100% of the 70% technical grade material.
- c The control group animals received vehicle (deionized water) only.

B. Treatment and Sacrifice Schedules

Rats were dosed orally by gavage during days 6-20G. Rats were sacrificed on day 21G. The volume administered (10 mL/kg) was based on the most recent body weight.

C. Selection of Dose Levels

Dose levels for the current study were based on data from previous studies.^(9,10) In the first study, which was a pilot developmental toxicity study with 70% glycolic acid technical solution in rats⁽⁹⁾, doses of 0, 125, 250, 500, or 1000 mg/kg/day were evaluated. Doses were prepared as solutions in water and were administered once daily over days 6 to 20 of gestation at 10 mL/kg. Maternal toxicity was demonstrated at 500 and 1000 mg/kg/day. At 1000 mg/kg/day, maternal effects included mortality, reduced maternal body weight and food consumption parameters, and clinical signs of toxicity including, but not limited to, abnormal gait/mobility, lung noise, salivation, and stained and wet fur. At 500 mg/kg/day, similar, yet markedly less severe, maternal weight gain reductions and increased clinical signs of toxicity were observed. Developmental toxicity at 1000 mg/kg/day consisted of reduced fetal weight (18% lower than control group), increased embryoletality, and increased fetal malformations and variations. At 500 mg/kg/day, developmental toxicity was limited to reduced fetal weight (9% lower than control group) and increased fetal variations.

In the subsequent study, which was a developmental toxicity study of glycolic acid in rats,⁽¹⁰⁾ doses of 0, 75, 150, 300, or 600 mg/kg/day were evaluated. Doses were prepared as solutions in water and were administered once daily over days 6 to 20 of gestation at 10 mL/kg. The test substance used for this study was a high-purity grade material (99.6% glycolic acid). Evidence of both maternal and developmental toxicity was reported at 300 and 600 mg/kg/day. Maternal toxicity consisted of reduced body weight and food consumption parameters at 600 mg/kg/day and increased clinical signs of toxicity at levels \geq 300 mg/kg/day. Developmental toxicity consisted of increased incidence of fetal malformations and/or variations at 300 and 600 mg/kg/day and reduced fetal weight (13% lower than control group) at 600 mg/kg/day.

A review of the current literature regarding the potential developmental toxicity of glycolic acid revealed that the severity of toxicity observed with this material is dependent on the pH of the dosing solution.⁽¹¹⁾ Current test facility animal welfare guidance requires that the dosing solutions for the current study be adjusted to a minimum of pH 3. The previous studies described above were not adjusted in this fashion.

Based on the previous data and the expectation that the slight increase in pH might mitigate toxicity, the doses selected for the current study were 0, 100, 300, and 900 mg/kg/day. The high dose level of 900 mg/kg/day was expected to produce maternal and developmental toxicity consistent with the high level effects reported previously. The intermediate dose level of 300 mg/kg/day was expected to produce minimal-to-no maternal and developmental toxicity. The low dose level of 100 mg/kg/day was expected to be the study no-adverse-effect level.

MATERIALS AND METHODS

A. Test Guidelines

The study design complied with the following test guidelines:

- U.S. EPA, OPPTS 870.3700: Prenatal Developmental Toxicity Study, *Health Effects Test Guidelines* (1998)
- OECD, Section 4 (Part 414): Prenatal Developmental Toxicity Study, *Guideline for the Testing of Chemicals* (2001)
- EEC, Method B.26 Commission Directive 87/302/EEC, *Methods for the Determination of Toxicity* (1987)
- MAFF Japan, 12 Nousan Section 3, 2-1-18 *Testing Guidelines for Toxicity Studies* (2000)

B. Test Substance, Vehicle, and Analytical Chemistry

1. Vehicle

The vehicle was deionized water.

2. Test Substance

a. Identification

The test substance was supplied by the sponsor and assigned Haskell number 28746. The test substance is identified in the study records by Haskell number 28746 or 70% Glycolic Acid Technical Solution.

b. Purity

Since the substance tested is the 70% technical grade material, a purity of 100% was assumed for the purposes of dose calculations. The Certificate of Analysis (COA) generated after the study

start confirmed a purity of 71.3% Glycolic Acid (GA) in the test substance as opposed to 70% GA as indicated in substance name. However, the difference between these 2 numbers is negligible and a purity of 100% was used for the purpose of dose calculations as dose concentrations were based on the test substance, not GA. Therefore, there was no adverse impact on study or doses in terms of the material that was tested. The COA is provided in Appendix A.

c. Test Substance Formulation Stability

The stability of the test substance formulation was determined from samples collected just prior to the study start which were evaluated after an established period to ensure acceptable stability within dose formulation preparations.

d. Test Substance Preparation and Sampling

Dosing formulations of the test material in the vehicle was prepared and used within the period of established stability. The method of mixing the test substance with the vehicle is documented in the study records. The pH of the formulation (test substance with the vehicle) was adjusted (using sodium hydroxide as a buffer) to 3.2 ± 0.2 . The pH of the vehicle control was adjusted (using hydrochloric acid as a buffer) to approximately the same level as the treatment groups (3.2) to be compliant with current animal welfare guidance.

Analyses to verify concentration and stability were conducted near the beginning of the dosing period; an additional check for concentration verification was conducted at the end of the dosing period. Samples were analyzed by the DuPont Haskell Global Centers Analytical Chemistry Group on the day the samples are collected. Detailed methods used for preparation, storage, and analyses of dosing formulations are included in the study records and Analytical Chemistry Report (Appendix C).

The volume administered was based on the most recent body weight.

C. Test System and Justification for Animal Model

The Crl:CD(SD) rat was selected for this study because it is a preferred species for developmental toxicity testing as recommended by the guidelines. The Crl:CD(SD) strain was chosen because extensive background information is available from the literature, the supplier, and previous studies conducted with other compounds at DuPont Haskell. This strain is also considered suitable relative to hardiness and incidence of spontaneous disease.

Eighty-eight nulliparous, time-mated females, were received on November 20, 2008 (68 females) and November 21, 2008 (20 females) from Charles River Laboratories, Inc., Raleigh, North Carolina. The rats for this study were requested to be 63 days old and be at either 1, 2, or 3 days of gestation upon arrival. At grouping, the rats weighed between 177 to 231 grams. Animals are provided time-mated by the vendor. Day 0 of gestation (GD 0) is defined as the day mating takes place. GD 0 body weights were supplied by the vendor and included in the study records.

Each animal was identified with a pretest ID (specified by Haskell when the animal order is placed) marked on the tail, which was recorded by the supplier prior to shipping. At animal

assignment, a permanent ID was assigned to each animal. The pretest and permanent animal ID for each animal was recorded on the animal's cage card. Upon receipt, each animal was assigned a Haskell number. A list of permanent ID numbers and corresponding Haskell numbers were maintained with the study records.

D. Animal Husbandry

1. Housing

Animals were housed singly in solid-bottom cages with bedding and nestlets as enrichment.

2. Environmental Conditions

Animal rooms were maintained at a temperature of 64-79°F (18-26°C) and a relative humidity of 30%-70%. Animal rooms were artificially illuminated (fluorescent light) on an approximate 12 hour light/dark cycle. Excursions outside of these ranges were of insufficient magnitude and/or duration to have adversely affected the validity of the study.

3. Feed and Water

All rats were provided tap water *ad libitum*. All rats were fed pelleted PMI® Nutrition International, LLC Certified Rodent LabDiet® 5002 *ad libitum*.

E. Animal Health and Environmental Monitoring Program

As specified in the DuPont Haskell animal health and environmental monitoring program, the following procedures are performed periodically to ensure that contaminant levels are below those that would be expected to impact the scientific integrity of the study:

- Water samples are analyzed for total bacterial counts, and the presence of coliforms, lead, and other contaminants.
- Samples from freshly washed cages and cage racks are analyzed to ensure adequate sanitation by the cagewashers.

Certified animal feed is used, guaranteed by the manufacturer to meet specified nutritional requirements and not to exceed stated maximum concentrations of key contaminants, including specified heavy metals, aflatoxin, chlorinated hydrocarbons, and organophosphates. The presence of these contaminants below the maximum concentration stated by the manufacturer would not be expected to impact the integrity of the study.

The animal health and environmental monitoring program is administered by the attending laboratory animal veterinarian. Data are maintained separately from study records and are archived on a periodic basis.

F. Quarantine and Pretest

Rats were quarantined according to procedures outlined in the DuPont Haskell Standard Operating Procedure (SOP) LA003-P, and then released for the study upon approval of the Animal Resources Supervisor (Laboratory Animal Veterinarian designee).

G. Randomization

Before dosing began, animals were randomly assigned to control or experimental groups using a computerized randomization procedure to produce a homogeneous distribution of body weights across groups within each breeding lot.

H. Parameters Studied

1. In-life Observations of Females

Procedure	Frequency
<u>Quarantine and Pretest</u>	
Mortality/Moribundity	At least once daily
Careful Clinical Observations	GD 4
Body Weights	GD 4
Food Consumption	GD 4
<u>Testing period</u>	
Mortality/Moribundity	Twice daily (AM and PM)
Careful Clinical Observations	Twice daily on GD 6-20 (during weighing and at least 2 hours post dosing)
	Once on GD 21
Body Weights	Daily on GD 6-21
Food Consumption ^a	GD 6, 8, 10, 12, 14, 16, 18, 20, and 21

a Food spillage was not recorded; there was no excessive spillage observed in this study.

2. Postmortem Evaluations

a. Control of Bias

In addition to random assignment to groups, all females were assigned a blind identifier number before scheduled euthanasia to allow maternal postmortem and fetal evaluations to be conducted without knowledge of the group designation. A cross reference list of blind identifiers and respective animal numbers are maintained in the study records.

b. Animal Euthanasia

Females were euthanized by carbon dioxide asphyxiation and exsanguination on day 21G. Fetuses were euthanized after the external examination was complete. Fetuses designated for head examinations were euthanized by decapitation; all other fetuses were euthanized by an intraperitoneal injection of a commercial euthanasia agent.

c. Postmortem Observations of Females Surviving to Scheduled Euthanasia

A gross external and visceral examination was performed immediately after euthanasia. There were no gross lesions observed for any rat on this study.

Viscera was examined grossly immediately after euthanasia. The intact and the empty uterus of each dam having at least one viable fetus was weighed to permit calculation of maternal body weight adjusted to exclude the products of conception. The *corpora lutea* count for each ovary of females with viable fetuses was recorded.

The gravid uterus of each female having at least one viable fetus was weighed to permit calculation of maternal body weight adjusted to exclude the products of conception. The *corpora lutea* count for each ovary of females with visible implantation sites was recorded.

For each female with visible implantation sites, the types of implants (live and dead fetuses, and resorptions) and their relative positions were recorded. The body weight of each live fetus was recorded. The uterus of each apparently "nonpregnant" female was stained with 10% aqueous solution of ammonium sulfide⁽¹²⁾ to detect very early resorptions.

The types of implantations are:

- Live fetus: Fully formed and responds to stimuli
- Dead fetus: Fully formed with little or no evidence of maceration.
- Late resorption: Identifiable structures (i.e., digital rays)
- Early resorption: No visible fetal structures

Uteri with no visible implantation sites were placed in a 10% aqueous solution of ammonium sulfide to detect very early resorptions.

d. Fetuses of Females Surviving to Scheduled Euthanasia

There were no fetuses classified as dead for this study.

i. External Examination

All fetuses classified as live were examined externally for alterations. External sex was recorded for each live fetus.

ii. Visceral and Head Examination

For each litter, approximately half of the live fetuses was examined for visceral alterations by fresh tissue dissection.⁽¹³⁾ In addition, all live fetuses with malformations visible at external examination were examined for soft tissue alterations; decapitation of these fetuses for head examination was performed at the discretion of the study director or designee.

Fetal organs or tissues were not retained since they were not deemed necessary for obtaining a definitive diagnosis.

The frozen heads of decapitated fetuses (fetuses that were decapitated prior to visceral examination; approximately half of the fetuses) were examined by a serial sectioning technique.⁽¹⁴⁾

iii. Skeletal Examination

All fetuses classified as live were fixed in alcohol, processed and the skeletons stained with alizarin-red. The skeletal bodies of all the fetuses and the skulls of half the fetuses (fetuses that were not designated for head examination) were examined for alterations.

I. Statistical Methods

Parameter	Method of Statistical Analysis (see Appendix A for references)		
	Preliminary Test	If Preliminary Test is Not Significant	If preliminary test is significant
Maternal weight Maternal weight change Maternal food consumption <i>Corpora lutea</i> Implantations Live fetuses Dead fetuses Resorptions	Levene's test for homogeneity and Shapiro-Wilk test for normality ^a	One-way analysis of variance and Dunnett's test	Kruskal-Wallis test followed by Dunn's test
Incidence of pregnancy Maternal mortality Females with total resorptions Early deliveries	None	Sequential application of Cochran-Armitage test ^b	
Incidence of fetal alterations	None	Exact Mann-Whitney with a Bonferroni- Holm adjustment	
Fetal weight (Covariates: litter size, sex ratio) Sex ratio (Covariate: litter size)	Levene's test for homogeneity and Shapiro-Wilk test for normality ^c	Analysis of covariance and Dunnett-Hsu	Non-parametric analysis of covariance

a If the Shapiro-Wilk test was not significant but Levene's test was significant, a robust version of Dunnett's test was used. If the Shapiro-Wilk test is significant, Kruskal-Wallis test is followed by Dunn's test.

b If the incidence is not significant, but a significant lack of fit occurs, then Fisher's Exact test with a Bonferroni correction is used.

c A normalizing, variance stabilizing transformation may be used as needed.

For litter parameters, the proportion of affected fetuses per litter or the litter mean were used as the experimental unit for statistical evaluation.⁽¹⁵⁾ The level of significance selected was $p < 0.05$.

RESULTS AND DISCUSSION

Analytical Evaluation

(Appendices A and C)

The Certificate of Analysis is provided in Appendix A and the Analytical Report is provided in Appendix C.

Developmental Toxicology

A. Maternal Body Weights and Body Weight Changes

(Tables 1 and 2, Appendices D, E, and F)

There were no adverse test substance-related reductions in maternal body weight or body weight changes at any level tested. Although body weight gains at 900 mg/kg/day were reduced (not statistically significant) at the beginning of the study (18% lower than control on days 6-8G at 900 mg/kg/day), these reductions were considered possibly test substance related, but non-adverse since the changes were spurious and did not result in reductions in body weight gain for the duration of the study (6-21G).

B. Maternal Food Consumption

(Table 3, Appendix G)

There were no test substance-related reductions in food consumption at any level tested.

C. Maternal Mortality and Clinical Observations

(Table 4, Appendix H)

All animals survived until scheduled sacrifice. There were no test substance-related clinical signs of toxicity observed at any level tested.

D. Maternal Gross Observations

(Table 5, Appendix I)

There were no gross postmortem findings at any dosage; all animals appeared normal at gross necropsy.

E. Reproductive Outcome and Litter Data

(Table 6, Appendices J and K)

Mean fetal weight was reduced (10% lower than control group) at 900 mg/kg/day. There were no effects on mean fetal weight at 300 mg/kg/day or lower.

The mean numbers of corpora lutea, implantation sites, resorptions, and live fetuses were comparable across all groups as was sex ratio.

F. Fetal Alterations

(Table 7, Appendix L)

1. Malformations

(Table 7, Appendix L)

There were test substance-related fetal malformations observed at 900 mg/kg/day.

Two litters at 900 mg/kg/day had malformed fetuses. These malformations included absent and fused ribs, hemivertebrae, sternoschisis, gastroschisis, macrophthalmia, and absent stomach, spleen, pancreas, and intestines.

There were no test substance-related fetal malformations at 300 mg/kg/day or lower.

2. Variations

(Table 7, Appendix L)

There were test substance-related increases in the incidences of fetal variations at 900 mg/kg/day, which included bipartite ossification of the thoracic and/or lumbar centrum, misaligned sternbrae, and supernumerary ribs (short and/or full). For the remaining fetuses, the number and type of variations observed were similar for all groups and were common to this strain and developmental age.

There was no test substance-related increases in fetal variations at 300 mg/kg/day or lower.

CONCLUSIONS

Under the conditions of this study, the no-observed-adverse-effect level (NOAEL) for maternal toxicity was 900 mg/kg/day, the highest level tested. The NOAEL for developmental toxicity was 300 mg/kg/day as a result of reduced fetal weight and increased incidence of fetal malformations and variations at 900 mg/kg/day.

RECORDS AND SAMPLE STORAGE

Specimens (if applicable), raw data, the protocol, and the final report are retained at DuPont Haskell, Newark, Delaware, Iron Mountain Records Management, Wilmington, Delaware, or Quality Associates Incorporated, Fulton, Maryland.

REFERENCES

1. DuPont Haskell (1995). Pilot Developmental Toxicity Study of 70% Glycolic Acid Technical Solution in Rats. Unpublished report, HLR 96-95.
2. DuPont Haskell (1996). Developmental Toxicity Study of Glycolic Acid in Rats. Unpublished report, HLR 191-96.
3. Carney, E.W., Freshour, N.L., Dittenber, D.A., and Dryzga, M.D. (1999). Ethylene Glycol Developmental Toxicity: Unraveling the Roles of Glycolic Acid and Metabolic Acidosis. *Toxicological Sciences* **50**, 117-126.
4. Nau, H., Scott, W.J., Jr. (1986). Weak acids may act as teratogens by accumulating in the basic milieu of the early mammalian embryo. *Nature* **323**, 276-278.
5. Srivastava, M., Collins, M.D., Scott, W.J., Jr, *et al.* (1991). Transplacental distribution of weak acids in mice: accumulation in compartments of high pH. *Teratology* **43**, 325-329.
6. Brown, N. (1987). Teratogenicity of carboxylic acids: distribution studies in whole embryo culture. *Pharmacokinetics in Teratogenesis Volume II* (H. Nau and W.J. Scott, Jr., Eds.) pp 154-163. CRC Press, Boca Raton.
7. Wells, M.Y., Decobecq, C.P.M., Decouvelaere, D.M., *et al.* (1999). Changes in clinical pathology parameters during gestation in the New Zealand White rabbit. *Toxicol Pathol* **27**, 370-379.
8. Carney, E.W., Scialli, A.R., Watson, R.E., DeSesso, J.M. (2004). Mechanisms Regulating Toxicant Disposition to the Embryo during Early Pregnancy: An Interspecies Comparison. *Birth Defects Research (Part C)* **72**, 345-360.
9. DuPont Haskell (2005). Pilot Developmental Toxicity Study of 70% Glycolic Acid Technical Solution in Rats. Unpublished report, HLR 96-95.
10. DuPont Haskell (2006). Developmental Toxicity Study of Glycolic Acid in Rats. Unpublished report, HLR 191-96.
11. Carney, E.W., Freshour, N.L., Dittenber, D.A., and Dryzga, M.D. (1999). Ethylene Glycol Developmental Toxicity: Unraveling the Roles of Glycolic Acid and Metabolic Acidosis. *Toxicological Sciences* **50**, 117-126.

12. Salewski, E. (1964). Farbemethode zum makroskopischen Nachweis von Implantationstellen am Uterus der Ratte. *Archiv. Path. Exp. Pharmacol.* **247**, 367.
13. Staples, R.E. (1974). Detection of visceral alterations in mammalian fetuses. *Teratology* **9(3)**, A37-A38.
14. Astroff, A.B., Ray, S.E., Rowe, L.M., Hilbish, K.G., Linville, A.L., Stutz, J.P., Breslin, W.J. (2002). Frozen-sectioning yields similar results as traditional methods for fetal cephalic examination in the rat. *Teratology* **66(2)**, 77-84.
15. Haseman, J.K. and Hogan, M.D. (1975). Selection of the experimental unit in teratology studies. *Teratology* **12**, 165-171.

REFERENCES FOR STATISTICAL METHODS

Test	Reference(s)
Levene's	Levene, H. (1960). Robust test for equality of variances. <i>Contributions to Probability and Statistics</i> (J. Olkin, ed.), pp 278-292. Stanford University Press, Palo Alto.
Shapiro-Wilk	Shapiro, S.S. and Wilk, M.B. (1965). An analysis of variance test for normality (complete samples). <i>Biometrika</i> 52 , 591-611.
One-way analysis of variance Cochran-Armitage Analysis of covariance	Snedecor, G.W. and Cochran, W.G. (1967). <i>Statistical Methods</i> , 6th edition, pp 246-248 and 349-352. The Iowa State University Press, Ames.
Dunnett's	Dunnett, C.W. (1964). New tables for multiple comparisons with a control. <i>Biometrics</i> 20 , 482-491. Dunnett, C.W. (1980). Pairwise multiple comparisons in the unequal variance case. <i>J. Amer. Statist. Assoc.</i> 75 , 796-800. Tamhane, A.C. (1979). A comparison of procedures for multiple comparison of means with unequal variances. <i>J. Amer. Statist. Assoc.</i> 74 , 471-480.
Kruskal-Wallis	Kruskal, W.H. and Wallis, W.A. (1952). Use of ranks in one-criterion analysis of variance. <i>J. Amer. Statist. Assoc.</i> 47 , 583-621.
Dunn's	Dunn, O.J. (1964). Multiple contrasts using rank sums. <i>Technometrics</i> 6 , 241-252.
Exact Mann-Whitney with a Bonferroni-Holm adjustment	Agresti, A. (1992). A Survey of Exact Inference for Contingency Tables. <i>Statistical Science</i> , 7 (1), 131-177. Mehta, C.R., Patel, N.R., and Tsatis, A.A. (1984). Exact Significance Testing to Establish Treatment Equivalence with Ordered Categorical Data. <i>Biometrics</i> , 40 , 819-825.
Dunnett-Hsu	Hsu, J.C. (1992). The Factor Analytic Approach to Simultaneous Inference in the General Linear Model. <i>Journal of Computational and Graphical Statistics</i> 1 , 151-168.
Non-parametric analysis of covariance	Stephenson, W.R., Jacobson, D. (1988). A comparison of Nonparametric Analysis of Covariance Techniques, <i>Communications in Statistics - Simulations</i> 17 , 17(2), 451-461.
Fisher's Exact	Fisher, R.A. (1985). <i>Statistical Methods for Research Workers</i> , 13th edition. Haffner, New York.
Sequential application of trend test	Selwyn, M.R. (1995). The use of trend tests to determine a no-observable-effect level in animal safety studies. <i>J. Am. Coll. Toxicol.</i> 14 (2), 158-168.

TABLES

TABLES

EXPLANATORY NOTES

ABBREVIATIONS:

BW	-	body weight
BWG	-	body weight gain
FC	-	food consumption
GD	-	gestation day
Kg	-	kilogram
Mg	-	milligram
N/n	-	number in group/number of values used in calculation of mean
ppm	-	parts per million
-/---/./.../blank space	-	no data/data could not be calculated

Table 1
Mean Maternal Body Weights

	(grams)			
Group: Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
BW: DAY6	245.8 10.8 (21)	249.3 11.7 (22)	247.0 10.7 (21)	245.9 11.6 (22)
BW: DAY7	251.3 12.1 (21)	254.3 12.9 (22)	252.3 11.7 (21)	249.9 12.0 (22)
BW: DAY8	257.0 12.4 (21)	260.0 12.4 (22)	256.9 11.2 (21)	255.1 12.7 (22)
BW: DAY9	262.1 13.3 (21)	267.4 13.9 (22)	263.2 11.3 (21)	261.4 14.0 (22)
BW: DAY10	270.1 13.8 (21)	272.0 13.8 (22)	270.0 11.5 (21)	268.8 14.2 (22)
BW: DAY11	276.2 14.0 (21)	278.7 14.7 (22)	277.0 12.2 (21)	274.9 16.3 (22)
BW: DAY12	282.2 14.7 (21)	284.5 15.0 (22)	283.2 12.9 (21)	281.1 15.7 (22)
BW: DAY13	286.6 15.1 (21)	289.9 16.2 (22)	287.2 15.0 (21)	284.4 16.4 (22)
BW: DAY14	291.4 16.3 (21)	293.1 16.6 (22)	292.9 14.0 (21)	290.2 17.1 (22)
BW: DAY15	299.8 17.7 (21)	303.8 16.8 (22)	302.9 15.5 (21)	298.2 17.9 (22)
BW: DAY16	309.0 18.5 (21)	312.6 17.6 (22)	313.3 15.3 (21)	306.8 17.4 (22)
BW: DAY17	321.9 20.4 (21)	326.8 19.7 (22)	325.3 17.5 (21)	319.0 19.1 (22)
BW: DAY18	336.9 20.6 (21)	342.9 20.5 (22)	342.4 19.7 (21)	332.8 21.3 (22)

Table 1
Mean Maternal Body Weights (continued)

	(grams)			
Group:	1	2	3	4
Dosage (mg/kg/day)	0	100	300	900
BW:DAY19	352.5 22.4 (21)	360.1 22.4 (22)	357.2 19.3 (21)	347.6 24.0 (22)
BW:DAY20	368.2 24.7 (21)	379.0 24.7 (22)	375.6 21.7 (21)	361.9 23.7 (22)
BW:DAY21	386.2 28.6 (21)	399.8 26.8 (22)	397.1 21.0 (21)	381.0 26.0 (22)
C_BW:DAY 21	294.74 22.46 (20)	299.92 21.44 (22)	298.15 13.10 (21)	295.37 19.14 (22)

Data summarized as: Mean
Standard Deviation (n)

C_BW:Day 21 = Net body weight on day 21 = Terminal body weight minus the gravid uterus weight.

Statistical Analysis: Statistical significance is indicated by the following (p < 0.05):

* Parametric comparison to control (Dunnett/Tamhane-Dunnett) significant

@ Nonparametric comparison to control (Dunn's) significant

Table 2
Mean Maternal Body Weight Changes

	(grams)			
Group:	1	2	3	4
Dosage (mg/kg/day)	0	100	300	900
BWG:DAY6-DAY8	11.2 4.8 (21)	10.7 2.7 (22)	9.9 3.9 (21)	9.2 3.6 (22)
BWG:DAY8-DAY10	13.0 3.3 (21)	12.0 3.3 (22)	13.1 4.4 (21)	13.7 4.6 (22)
BWG:DAY10-DAY12	12.1 3.2 (21)	12.5 4.8 (22)	13.2 4.0 (21)	12.3 5.4 (22)
BWG:DAY12-DAY14	9.3 4.9 (21)	8.7 4.8 (22)	9.7 4.3 (21)	9.1 4.4 (22)
BWG:DAY14-DAY16	17.6 6.0 (21)	19.5 5.1 (22)	20.5 4.4 (21)	16.6 5.3 (22)
BWG:DAY16-DAY18	27.9 4.6 (21)	30.3 6.2 (22)	29.1 6.1 (21)	26.1 6.7 (22)
BWG:DAY18-DAY20	31.4 6.4 (21)	36.1* 6.6 (22)	33.2 5.5 (21)	29.1 5.2 (22)
BWG:DAY20-DAY21	17.9 6.1 (21)	20.8 5.7 (22)	21.6 7.4 (21)	19.0 5.6 (22)
BWG:DAY6-DAY21	140.3 22.6 (21)	150.5 18.9 (22)	150.1 14.3 (21)	135.1 19.7 (22)
C_BWG:DAY 21	49.21 15.28 (20)	50.64 13.10 (22)	51.16 10.73 (21)	49.50 11.88 (22)

Data summarized as: Mean
Standard Deviation (n)

C_BWG:Day 21 = Net body weight change on day 21 = Net body weight on day 21 minus the body weight on day 6.

Statistical Analysis: Statistical significance is indicated by the following (p < 0.05):

* Parametric comparison to control (Dunnett/Tamhane-Dunnett) significant

@ Nonparametric comparison to control (Dunn's) significant

Table 3
Mean Maternal Food Consumption
(grams/day)

Group: Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
FC:DAY6-DAY8	21.0 3.1 (21)	21.2 2.0 (22)	21.6 2.1 (21)	20.7 2.5 (22)
FC:DAY8-DAY10	22.4 2.7 (21)	22.8 3.2 (22)	22.7 2.4 (21)	22.9 3.5 (22)
FC:DAY10-DAY12	24.1 2.8 (21)	24.0 3.4 (22)	25.4 2.7 (21)	24.6 3.3 (22)
FC:DAY12-DAY14	24.1 2.7 (21)	24.4 3.2 (22)	25.1 2.9 (21)	24.3 3.3 (22)
FC:DAY14-DAY16	25.1 2.4 (21)	25.7 2.9 (22)	26.4 2.8 (21)	25.1 2.7 (22)
FC:DAY16-DAY18	26.1 2.8 (21)	27.1 3.1 (22)	27.3 3.0 (21)	26.6 3.5 (22)
FC:DAY18-DAY20	26.2 3.2 (21)	27.0 3.3 (22)	27.8 3.2 (21)	26.3 3.0 (22)
FC:DAY20-DAY21	26.4 4.2 (21)	27.8 4.2 (22)	27.8 3.3 (21)	25.2 3.4 (22)
FC:DAY6-DAY21	24.3 2.5 (21)	24.8 2.7 (22)	25.4 2.2 (21)	24.4 2.5 (22)

Data summarized as: Mean
Standard Deviation (n)

Statistical Analysis: Statistical significance is indicated by the following (p < 0.05):

* Parametric comparison to control (Dunnett/Tamhane-Dunnett) significant

@ Nonparametric comparison to control (Dunn's) significant

Table 4
Summary of Maternal Clinical Observations

Group:	1	2	3	4
Dosage (mg/kg/day)	0	100	300	900
Discharge - red - vaginal Opening				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	14 14
Hair loss				
Number of Observations	4	.	4	.
Number of Animals	1	.	1	.
Days from - to	18 21	.	18 21	.
Scheduled sacrifice				
Number of Observations	22	22	22	22
Number of Animals	22	22	22	22
Days from - to	21 21	21 21	21 21	21 21

Table 5
Summary of Maternal Gross Observations

	FEMALES			
Group:	1	2	3	4
Dosage (mg/kg/day)	0	100	300	900
Number of Animals on Study :	22	22	22	22
WHOLE BODY;				
No Visible Lesions.....	22	22	22	22

Table 6
Reproductive Outcome

Group: Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Number of animals in group	22	22	22	22
Not Pregnant (%)	1 (4.5)	0 (0.0)	1 (4.5)	0 (0.0)
Died/Killed	0	0	0	0
Survived to scheduled kill	0	0	0	0
Pregnant (%)	21 (98.3)	22 (100.0)	21 (98.4)	22 (100.0)
Died/Killed/Aborted	0	0	0	0
with total resorption	0	0	0	0
with live fetus at scheduled kill	21	22	21	22
<i>Corpora Lutea</i>	12.9 1.5 (21)	14.5@ 2.2 (22)	13.7 1.8 (21)	13.9 1.9 (22)
Implants	11.9 1.7 (21)	13.4* 1.7 (22)	12.8 1.6 (21)	12.2 2.0 (22)
Total Resorptions	0.05 0.22 (21)	0.18 0.50 (22)	0.00 0.00 (21)	0.14 0.35 (22)
Early Resorptions	0.05 0.22 (21)	0.18 0.50 (22)	0.00 0.00 (21)	0.14 0.35 (22)
Late Resorptions	0.00~ 0.00 (21)	0.00 0.00 (22)	0.00 0.00 (21)	0.00 0.00 (22)
Dead Fetuses	0.0~ 0.0 (21)	0.0 0.0 (22)	0.0 0.0 (21)	0.0 0.0 (22)
Live Fetuses	11.8 1.6 (21)	13.2* 1.7 (22)	12.8 1.6 (21)	12.1 2.0 (22)
Male Fetuses	5.6 1.9 (21)	5.9 2.3 (22)	6.4 2.0 (21)	6.4 2.0 (22)
Female Fetuses	6.2 1.7 (21)	7.4 2.1 (22)	6.4 1.8 (21)	5.7 1.9 (22)

Table 6
Reproductive Outcome (continued)

Group: Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Number of animals in group	22	22	22	22
Fetal Weight	5.65 0.23 (21)	5.65 0.23 (22)	5.74 0.22 (21)	5.10! 0.34 (22)
Male Weight	5.85 0.24 (21)	5.84 0.25 (22)	5.90 0.26 (21)	5.23 0.38 (22)
Female Weight	5.50 0.26 (21)	5.50 0.24 (22)	5.57 0.27 (21)	4.98 0.35 (22)
Sex Ratio	0.47 0.14 (21)	0.44 0.15 (22)	0.50 0.14 (21)	0.53 0.15 (22)

Data summarized as: Mean
Standard Deviation (n)

Sex Ratio = Number male fetuses/total number fetuses per litter.

Statistical Analysis: Statistical significance is indicated by the following (p < 0.05):

* Parametric comparison to control (Dunnett/Tamhane-Dunnett) significant

@ Nonparametric comparison to control (Dunn's) significant

Trend test (Jonckheere-Terpstra) significant

! Analysis of Covariance and Dunnett-Hsu

~ Next to control mean indicates no analyses were performed

Statistical analyses are only conducted on the total mean fetal weight; the means for males and females are presented for information only.

Note: The incidence of pregnancy, maternal mortality, the total resorptions, and early deliveries/abortions were statistically analyzed using the Cochran-Armitage test. Live fetuses, dead fetuses, resorptions, corpora lutea, and implantations were analyzed by One-Way Analysis of Variance and Dunnett's test. Fetal weight and sex ratio were analyzed using Analysis of Covariance and Dunnett-Hsu.

Table 7
Incidence of Fetal Malformations and Variations

	Group Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Total number of fetuses examined		248	291	269	266
External Defects: Number of Fetuses Examined		248	291	269	266
: Number of Litters Examined		21	22	21	22
Body					

Trunk, Gastroschisis	Malformation				3 (1.1)
					1 (4.5)

Upper line denotes number of affected fetuses

Lower line denotes number of affected litters

Figures in parenthesis denote percentage incidence

Calculated values do not include animals which either, were not pregnant, did not survive to the scheduled kill, had a total litter loss, aborted or are marked for exclusion

Table 7
Incidence of Fetal Malformations and Variations (continued)

	Group Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Total number of fetuses examined		248	291	269	266
Head Defects: Number of Fetuses Examined		118	140	129	130
: Number of Litters Examined		21	22	21	22

Head					

Eye, Macrophthalmia	Malformation				1 (0.8)
					1 (4.5)

Upper line denotes number of affected fetuses

Lower line denotes number of affected litters

Figures in parenthesis denote percentage incidence

Calculated values do not include animals which either, were not pregnant, did not survive to the scheduled kill, had a total litter loss, aborted or are marked for exclusion

Table 7
Incidence of Fetal Malformations and Variations (continued)

	Group Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Total number of fetuses examined		248	291	269	266
Visceral Defects: Number of Fetuses Examined		118	141	129	130
: Number of Litters Examined		21	22	21	22

Abdomen					

Stomach, Absent	Malformation				1 (0.8) 1 (4.5)
Spleen, Enlarged	Variation	1 (0.8) 1 (4.7)			
Spleen, Absent	Malformation				1 (0.8) 1 (4.5)
Pancreas, Absent	Malformation				1 (0.8) 1 (4.5)
Intestines, Absent	Malformation				1 (0.8) 1 (4.5)

Upper line denotes number of affected fetuses

Lower line denotes number of affected litters

Figures in parenthesis denote percentage incidence

Calculated values do not include animals which either, were not pregnant, did not survive to the scheduled kill, had a total litter loss, aborted or are marked for exclusion

Table 7
Incidence of Fetal Malformations and Variations (continued)

	Group Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Total number of fetuses examined		248	291	269	266
Skeletal - Head Defects: Number of Fetuses Examined		130	151	140	136
: Number of Litters Examined		21	22	21	22

Skull					

Interparietal, Incomplete ossification	Variation		1 (0.7) 1 (4.5)		
Supraoccipital, Incomplete ossification	Variation		1 (0.7) 1 (4.5)	1 (0.7) 1 (4.7)	4 (2.9) 3 (13.6)
Parietal, Incomplete ossification	Variation		2 (1.3) 1 (4.5)		2 (1.5) 2 (9.0)

Upper line denotes number of affected fetuses

Lower line denotes number of affected litters

Figures in parenthesis denote percentage incidence

Calculated values do not include animals which either, were not pregnant, did not survive to the scheduled kill, had a total litter loss, aborted or are marked for exclusion

Table 7
Incidence of Fetal Malformations and Variations (continued)

	Group Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Total number of fetuses examined		248	291	269	266
Skeletal - Body Defects: Number of Fetuses Examined		248	291	269	266
: Number of Litters Examined		21	22	21	22
<hr/>					
Pelvic girdle					

Pubis, Incomplete ossification	Variation		1 (0.3) 1 (4.5)		1 (0.4) 1 (4.5)
Ischium, Incomplete ossification	Variation		1 (0.3) 1 (4.5)		
Vertebrae					

Thoracic vertebra, Hemivertebra	Malformation				7 (2.6) 2 (9.0)
Thoracic arch, Fused	Malformation				1 (0.4) 1 (4.5)
Lumbar centrum, Bipartite ossification	Variation				15 (5.6)* 7 (31.8)
Thoracic centrum, Unossified	Variation				3 (1.1) 1 (4.5)
Thoracic centrum, Hemicentric	Variation				6 (2.3) 1 (4.5)
Thoracic centrum, Bipartite ossification	Variation	7 (2.8) 5 (23.8)	2 (0.7) 2 (9.0)	2 (0.7) 2 (9.5)	48 (18.0)* 18 (81.8)

Upper line denotes number of affected fetuses

Lower line denotes number of affected litters

Figures in parenthesis denote percentage incidence

Calculated values do not include animals which either, were not pregnant, did not survive to the scheduled kill, had a total litter loss, aborted or are marked for exclusion

Statistical Analysis: Statistical significance is indicated by the following ($p < 0.05$):

* Exact Mann-Whitney with a Bonferroni-Holm adjustment.

Table 7
Incidence of Fetal Malformations and Variations (continued)

	Group Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Total number of fetuses examined		248	291	269	266
Skeletal - Body Defects: Number of Fetuses Examined		248	291	269	266
: Number of Litters Examined		21	22	21	22
Ribs					

Rib, Cervical rib	Variation	2 (0.8) 2 (9.5)		1 (0.4) 1 (4.7)	
Rib, Absent	Malformation				6 (2.3) 1 (4.5)
Rib, Full supernumerary rib	Variation				13 (4.9) 6 (27.2)
Rib, Wavy	Variation			2 (0.7) 1 (4.7)	2 (0.8) 2 (9.0)
Rib, Fused	Malformation				6 (2.3) 1 (4.5)
Rib, Short supernumerary	Variation	2 (0.8) 2 (9.5)	2 (0.7) 2 (9.0)	4 (1.5) 3 (14.2)	20 (7.5) 7 (31.8)
Sternebrae					

Sternebrae, Sternoschisis	Malformation				1 (0.4) 1 (4.5)
Sternebrae, Unossified	Variation				1 (0.4) 1 (4.5)

Upper line denotes number of affected fetuses

Lower line denotes number of affected litters

Figures in parenthesis denote percentage incidence

Calculated values do not include animals which either, were not pregnant, did not survive to the scheduled kill, had a total litter loss, aborted or are marked for exclusion

Table 7
Incidence of Fetal Malformations and Variations (continued)

	Group Dosage (mg/kg/day)	1 0	2 100	3 300	4 900
Total number of fetuses examined		248	291	269	266
Skeletal - Body Defects: Number of Fetuses Examined		248	291	269	266
: Number of Litters Examined		21	22	21	22
Sternebrae, Misaligned	Variation		1 (0.3) 1 (4.5)		13 (4.9) * 8 (36.3)
Sternebrae, Fused	Variation				1 (0.4) 1 (4.5)
Sternebrae, Bipartite ossification	Variation				2 (0.8) 1 (4.5)

Upper line denotes number of affected fetuses

Lower line denotes number of affected litters

Figures in parenthesis denote percentage incidence

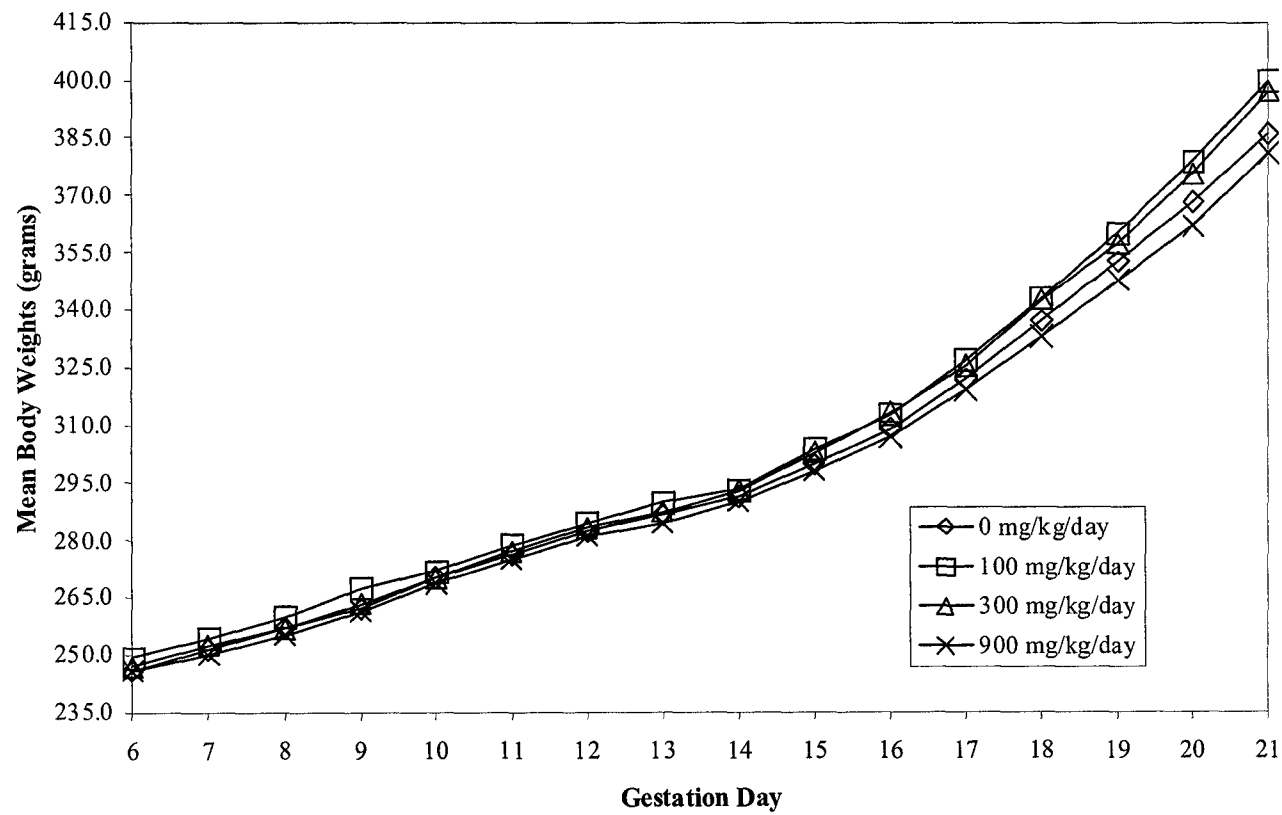
Calculated values do not include animals which either, were not pregnant, did not survive to the scheduled kill, had a total litter loss, aborted or are marked for exclusion

Statistical Analysis: Statistical significance is indicated by the following ($p < 0.05$):

* Exact Mann-Whitney with a Bonferroni-Holm adjustment.

FIGURES

Figure 1
Mean Maternal Body Weights



APPENDICES

APPENDICES

EXPLANATORY NOTES

ABBREVIATIONS:

BW	-	body weight
BWG	-	body weight gain
FC	-	food consumption
GD	-	gestation day
kg	-	kilogram
mg	-	milligram
N/n	-	number in group/number of values used in calculation of mean
ppm	-	parts per million
Wt	-	weight
-/---/./../blank space	-	no data/data could not be calculated

INDIVIDUAL FETAL DATA

ABBREVIATIONS:

CL	-	<i>corpora lutea</i>
Earl	-	early resorption
Early PM	-	early postmortem
Late	-	late resorption
Posn	-	implant position <i>in uterus</i>
Skel	-	skeletal exam set
Viab	-	viable fetus
Visc	-	visceral exam set

NOTES:

Skeletal elements noted as missing/disarticulated are artifacts of skeletal processing. These fetuses were examined to the extent possible.

Appendix A
Certificate of Analysis



E. I. du Pont de Nemours and Company
Wilmington, DE 19898
USA

CERTIFICATE OF ANALYSIS

This Certificate of Analysis fulfills the requirement for characterization of a test substance prior to a study subject to GLP regulations. It documents the identity and content of the test substance. This work was conducted under EPA Good Laboratory Practice Standards (40 CFR 160).

Haskell Code Number	H-28746
Common Name	Glycolic Acid - Technical Grade
Purity Percent	71.3%
Other Components	Formic Acid - 0.280% Methoxyacetic acid - 1.04% Diglycolic Acid - 0.968% Formaldehyde - 0.0364 ppm
Date of Analysis	January 20, 2009
Recommended reanalysis interval	1 year
Instructions for storage	NRT&H
Reference	DuPont-18011-378
Analysis performed at	Case Consulting Laboratories, Inc. 622 Route Ten Whippany, NJ USA

Approver:

A handwritten signature in black ink, appearing to read "Peter A. Bloxham".

Peter A. Bloxham, Ph.D.
Senior Research Chemist

27-MAR-2009

Date

Appendix B
Protocol and Protocol Amendments

DuPont-18011-841

(H-28746) 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats

Work Request Number 18011

Service Code 841

Protocol

Performing Laboratory: E.I. du Pont de Nemours and Company
DuPont Haskell Global Centers
for Health & Environmental Sciences
P.O. Box 50
Newark, Delaware 19714
U.S.A.

Haskell Animal Welfare
Committee Number: DGRT006-GP

- 1 -

TABLE OF CONTENTS

	Page
OBJECTIVE	3
SPONSOR AND CONTACT INFORMATION	3
REGULATORY COMPLIANCE AND TEST GUIDELINES	3
ANIMAL WELFARE ACT COMPLIANCE.....	4
STUDY DESIGN.....	5
A. Treatment and Sacrifice Schedules.....	5
B. Selection of Dose Levels	5
MATERIALS AND METHODS.....	6
A. Analytical	6
B. Test System and Justification for Animal Model	7
C. Animal Husbandry	7
D. Animal Health and Environmental Monitoring Program	8
E. Quarantine and Pretest	8
F. Randomization	8
G. Parameters to be Studied.....	9
H. Statistical Methods.....	12
SAFETY AND HOUSEKEEPING	12
RECORDS AND SAMPLE STORAGE	12
STUDY DATES	13
REFERENCES	13
APPENDIX A.....	14
SIGNATURES.....	15

(H-28746) 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats DuPont-18011-841

OBJECTIVE

The objective of this study is to evaluate the potential maternal and developmental toxicity of the test substance in rats. The test substance will be administered by oral gavage to pregnant rats daily from around the time of implantation to the end of gestation, days 6-20 of gestation (days 6-20G). The oral route is the route that is recommended by regulatory agencies for this type of study.

SPONSOR AND CONTACT INFORMATION

Sponsor: DuPont Chemical Solutions Enterprise (DCSE)

Address of Sponsor: E.I. du Pont de Nemours and Company
Wilmington, Delaware 19898
U.S.A.

Sponsor Contact: Rod K. Hackman
(302) 357-1980
HACKM2RK@usa.dupont.com

Testing Facility Contact: Joseph M Lewis
(302) 451-4815
Joseph.M.Lewis@DuPont.com

Sponsor Approval: found on the Work Authorization Form

REGULATORY COMPLIANCE AND TEST GUIDELINES

This study will be conducted in compliance with the following good laboratory practice(s), which are compatible with current OECD and MAFF (Japan) Good Laboratory Practices:

- U.S. EPA TSCA (40 CFR part 792) Good Laboratory Practice Standards

This study will be conducted in compliance with the following test guideline(s):

- U.S. EPA, OPPTS 870.3700: Prenatal Developmental Toxicity Study, *Health Effects Test Guidelines* (1998)
- OECD, Section 4 (Part 414): Prenatal Developmental Toxicity Study, *Guideline for the Testing of Chemicals* (2001)
- Official Journal of the European Communities, 87/302/EEC, Part B: Methods for the Determination of Toxicity.
- MAFF Japan, 12 Nohsan Section 3, 2-1-18 (24th November, 2000).

(H-28746) 70% Glycolic Acid Technical Solution Developmental Toxicity Study in Rats DuPont-18011-841

Areas of noncompliance will be documented in the final report.

ANIMAL WELFARE ACT COMPLIANCE

This study will comply with all applicable sections of the Final Rules of the Animal Welfare Act regulations (9 CFR) and the Guidelines from the Guide for the Care and Use of Laboratory Animals (NRC 1996). The sponsor should make particular note of the following:

- The signature of the sponsor and/or the study director ensures that the study described in this protocol does not unnecessarily duplicate previous experiments, and is in compliance with the DuPont Policy on Animal Testing.
- Whenever possible, procedures used in this study have been designed to implement a reduction, replacement, and/or refinement in the use of animals in an effort to avoid or minimize discomfort, distress or pain to animals. All methods are described in this study protocol or in written laboratory standard operating procedures.
- Animals that experience severe or chronic pain or distress that cannot be relieved will be painlessly euthanized as deemed appropriate by the veterinary staff and study director or appropriate designee. The sponsor will be advised by the study director of all circumstances that could lead to this action in as timely a manner as possible.
- Methods of euthanasia used during this study are in conformance with the above referenced regulation and the recommendations of the American Veterinary Medical Association (AVMA), 2007 Guidelines on Euthanasia.
- Animals will be provided with species-appropriate environmental enrichment.
- This protocol has been reviewed by the Haskell Animal Welfare Committee and complies with acceptable standards for animal welfare and humane care.
- DuPont Haskell is accredited by the Association for the Assessment and Accreditation of Laboratory Animal Care (AAALAC) International.

FOR KIM CLARK

Maureen A
Newton/AE/DuPont
01/06/2010 09:26 AM

To Chun Ku Chen/PO/DuPont@DuPont, Wendy
Zhou/AP/DuPont@DuPont, Joe Chou/PO/DuPont@DuPont
cc Kai-Volker Schubert/AE/DuPont@DuPont, Steve
Wolf/AE/DuPont@DuPont, Kimberly A
Clark/AE/DuPont@DuPont
bcc

Subject Recap AP S&T Capstone Conversion Meeting

Thanks you for your time today to discuss the S&T Capstone conversion plan. Next steps that we agreed to:

- get aligned on the listing of customers that need to be sampled (include on the listing those customers sampled, those to be sampled) -- see attached for data requirements. This is a sheet to help the regions so we need to make sure it meets your needs. Also, since Wendy already has a listing we can use her listing as long as it provides the same info. It would be more efficient to have 1 sheet that meets all needs. Wendy let us know how you would like to integrate the info on the sheet below with your sheet.

- going forward maintain listing with status of samples (input for Regional scorecard) -- monthly updates (spreadsheet with details by customer and scorecard) will be needed prior to the meeting set for the 3rd Thurs of each month

- provide feedback on 2010 DIBM requirements -- Zonyls, Capstone Products

Kim will set up a call for early in the week of Jan 18th to discuss the above. We will then be able to establish a process to update the information on-going.

Other items we discussed:

- confirmation on pricing (Kim/Steve)

- for S&T (and all segments) Maureen can provide support on the sample process -- R&D and Commercial products in SAP

- for S&T requesting regions to provide update on scorecard going forward-- we will confirm timing, also Maureen to discuss with Kai so that we can coordinate effort/timing for all segments

If I missed any items please let me know. Again thanks for your time. Kim will be sending a meeting invite for the 18th (we are planning on meeting during AP working hours).



S&T - AP Listing.xls

(H-28746) 70% Glycolic Acid Technical Solution. Developmental Toxicity Study in Rats DuPont-18011-841

STUDY DESIGN

Study Parameter	Study Date
Initiation of Test Substance Administration	November 23, 2008
In-life Completion Date	December 11, 2008 (Approximately)

Treatment Groups and Daily Dosage

Group	Exposure (mg/kg/day) ^a	Suspension Concentration (mg/mL) ^b	Time-Mated Females
1	0 ^c	0	22
2	100	10	22
3	300	30	22
4	900	90	22

a Formulations of test substance in deionized water will be administered once daily by oral gavage on days 6-20G at a dosing volume of 10 mL/kg

b Sample purity is assumed 100% of the 70% technical grade material.

c The control group animals will receive vehicle (deionized water) only.

A. Treatment and Sacrifice Schedules

The test substance will be administered orally because this route is recommended by regulatory agencies for this type of study.

Rats will be dosed orally by gavage during days 6-20G. Rats will be sacrificed on day 21G. The volume administered (10 mL/kg) will be based on the most recent body weight.

B. Selection of Dose Levels

Dose levels for the current study were based on data from previous studies.^(1,2) In the first study which was a pilot developmental toxicity study with 70% glycolic acid technical solution in rats,⁽¹⁾ doses of 0, 125, 250, 500, or 1000 mg/kg/day were evaluated. Doses were prepared as solutions in water and were administered once daily at 10 mL/kg. Maternal toxicity was demonstrated at 500 and 1000 mg/kg/day. At 1000 mg/kg/day, maternal effects included mortality, reduced maternal body weight and food consumption parameters, and clinical signs of toxicity including, but not limited to abnormal gait/mobility, lung noise, salivation, and stained and wet fur. At 500 mg/kg/day, similar, yet markedly less severe maternal weight gain reductions and increased clinical signs of toxicity were observed. Developmental toxicity at 1000 mg/kg/day consisted of reduced fetal weight, increased embryoletality, and increased fetal malformations and variations. At 500 mg/kg/day, developmental toxicity was limited to reduced fetal weight and increased fetal variations.

In the subsequent study which was a developmental toxicity study of glycolic acid in rats,⁽²⁾ doses of 0, 75, 150, 300, or 600 mg/kg/day were evaluated. The test substance used for this study was the high-purity grade material (99.6% glycolic acid). Evidence of both maternal and developmental toxicity was reported at 300 and 600 mg/kg/day. Maternal toxicity consisted of reduced body weight and food consumption parameters at 600 mg/kg/day and increased clinical

(H-28746) 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats DuPont-18011-841

signs of toxicity at levels ≤ 300 mg/kg/day. Developmental toxicity consisted of increased incidence of fetal malformations and/or variations at 300 and 600 mg/kg/day and reduced fetal weight at 600 mg/kg/day.

A review of the current literature regarding the potential developmental toxicity of glycolic acid revealed that the severity of toxicity observed with this material is dependent on the pH of the dosing solution.⁽³⁾ Current test facility animal welfare guidance requires that the dosing solutions for the current study be adjusted to a minimum of pH 3. The previous studies described above were not adjusted in this fashion.

Based on the previous data and the expectation that the slight increase in pH might mitigate toxicity, the doses selected for the current study are 0, 100, 300, and 900 mg/kg/day. The high dose level of 900 mg/kg/day is expected to produce maternal and developmental toxicity consistent with the high level effects reported previously. The intermediate dose level of 300 mg/kg/day is expected to produce minimal to no maternal and developmental toxicity. The low dose level of 100 mg/kg/day is expected to be the study no-adverse-effect level.

MATERIALS AND METHODS

A. Analytical

1. Vehicle

The vehicle will be deionized water.

2. Test Substance

a. Identification

The test substance was supplied by the sponsor and assigned Haskell Number 28746. The test substance will be identified in this protocol and in the study records by Haskell Number 28746, or 70% Glycolic Acid Technical Solution.

b. Purity

Since the substance being tested is the 70% technical grade material, a purity of 100% will be assumed for the purposes of dose calculations.

c. Test Substance Formulation Stability

The stability of the test substance formulation will be started just prior to the study start and will be evaluated after an established period to ensure acceptable stability within dose formulation preparations.

d. Test Substance Preparation and Sampling

Dosing formulations of the test material in the vehicle will be prepared and used within the period of established stability. The method of mixing the test substance with the vehicle will be

(H-28746) 70% Glycolic Acid Technical Solution. Developmental Toxicity Study in Rats DuPont-18011-841

documented in the study records. The pH of the formulation (test substance with the vehicle) will be adjusted (using Sodium Hydroxide as a buffer) to 3.2 ± 0.2 . The pH of the vehicle control will be adjusted (using Hydrochloric Acid as a buffer) to approximately the same level as the treatment groups (3.2).

Analyses to verify concentration and stability will be conducted near the beginning of the dosing period; an additional check for concentration verification will be conducted at the end of the dosing period. Samples will be analyzed by the DuPont Haskell Global Centers Analytical Chemistry Group on the day the samples are collected. If samples cannot be analyzed at the specified times, they will be retained until analyses can be conducted. Additional samples may be taken at the discretion of the study director or designee. Detailed methods used for preparation, storage, and analyses of dosing formulations will be included in the study records and final report.

The volume administered will be based on the most recent body weight.

B. Test System and Justification for Animal Model

The CrI:CD(SD) rat was selected for this study because it is a preferred species for developmental toxicity testing as recommended by the guidelines. The CrI:CD(SD) strain was chosen because extensive background information is available from the literature, the supplier, and previous studies conducted with other compounds at DuPont Haskell. This strain is also considered suitable relative to hardiness and incidence of spontaneous disease.

Eighty-eight nulliparous, time-mated females, will be received on November 20, 2008 (68 females) and November 21, 2008 (20 females) from Charles River Laboratories, Inc., Raleigh, North Carolina. The location of the supplier (city/state) will be documented in the study records and final report. The rats for this study were requested to be 63 days old and be at either 1, 2, or 3 days of gestation upon arrival. This age corresponds to an estimated weight range of 201-225 grams according to the vendor; however, the weight range is not a factor for the purposes of this study and, therefore, deviations outside of this range are expected not to have any impact on the study. Body weights on the day the rats are mated, day 0 of gestation (day 0G), will be supplied by the vendor. The day 0G body weights will be documented in the study records and provided in the final report.

Each animal is identified with a pretest ID (specified by Haskell when the animal order is placed) marked on the tail, which will be recorded by the supplier prior to shipping. At animal assignment, a permanent ID will be assigned to each animal. The pretest and permanent animal ID for each animal will be recorded on the animal's cage card. Upon receipt, each animal will also be assigned a Haskell number. A list of permanent ID numbers and corresponding Haskell numbers will be maintained with the study records.

C. Animal Husbandry

1. Housing

Animals will be housed singly in solid-bottom cages with bedding and nestlets as enrichment.

2. Environmental Conditions

Animal rooms will be maintained at a temperature of 64-79°F and a relative humidity of 30%-70%. Animal rooms will be artificially illuminated (fluorescent light) on an approximate 12 hour light/dark cycle. The relative humidity and temperature values in the housing rooms are monitored continuously and recorded automatically at regular intervals each day. The temperature and humidity records are reviewed by the laboratory veterinarian and/or designee. Unless judged by the study director or the laboratory veterinarian to have significantly affected the results of the study, the relative humidity and temperature ranges in the housing rooms will not be included in the final report.

3. Feed and Water

All rats will be provided tap water *ad libitum*. All rats will be fed pelleted PMI® Nutrition International, LLC Certified Rodent LabDiet® 5002 *ad libitum*.

D. Animal Health and Environmental Monitoring Program

As specified in the DuPont Haskell animal health and environmental monitoring program, the following procedures are performed periodically to ensure that contaminant levels are below those that would be expected to impact the scientific integrity of the study:

- Water samples are analyzed for total bacterial counts, and the presence of coliforms, lead, and other contaminants.
- Samples from freshly washed cages and cage racks are analyzed to ensure adequate sanitation by the cagewashers.

Certified animal feed is used, guaranteed by the manufacturer to meet specified nutritional requirements and not to exceed stated maximum concentrations of key contaminants, including specified heavy metals, aflatoxin, chlorinated hydrocarbons, and organophosphates. The presence of these contaminants below the maximum concentration stated by the manufacturer would not be expected to impact the integrity of the study.

The animal health and environmental monitoring program is administered by the attending laboratory animal veterinarian. Data are maintained separately from study records and may be included in the final report at the discretion of the study director.

E. Quarantine and Pretest

Rats will be quarantined according to procedures outlined in the DuPont Haskell Standard Operating Procedure (SOP) LA003-P, and then released for the study upon approval of the Laboratory Animal Veterinarian or a designee.

F. Randomization

Before dosing begins, animals will be randomly assigned to control or experimental groups using a computerized randomization procedure to produce a homogeneous distribution of body weights

(H-28746) 70% Glycolic Acid Technical Solution Developmental Toxicity Study in Rats DuPont-18011-841

across groups within each breeding lot. Animals that lose excessive weight or that are ill prior to the start of dosing will be removed from the study, sacrificed and discarded without pathological evaluation, or may be released for other laboratory purposes at the discretion of the study director.

G. Parameters to be Studied

1. In-life Observations of Females

Procedure	Frequency
<u>Quarantine and Pretest</u>	
Mortality/Morbidity	At least once daily
Careful Clinical Observations	GD 4
Body Weights	GD 4
Food Consumption	GD 4

Testing period

Mortality/Morbidity	Twice daily (AM and PM)
Careful Clinical Observations	Twice daily on GD 6-20 (during weighing and at least 2 hours post dosing) Once on GD 21 Clinical signs observed at other times will be recorded by exception.
Body Weights	Daily on GD 6-21
Food Consumption ^a	GD 6, 8, 10, 12, 14, 16, 18, 20, and 21

a = Food spillage will not be recorded; however excessive spillage will be noted in the study records.

2. Postmortem Evaluations

a. Control of Bias

In addition to random assignment to groups, all females will be assigned a blind identifier number before scheduled euthanasia; this number will allow maternal postmortem and fetal evaluations to be conducted without knowledge of the group designation.

b. Animal Euthanasia

Females will be euthanized by carbon dioxide asphyxiation and exsanguination on day 21G. Fetuses will be euthanized after the external examination is complete. Fetuses designated for head examinations will be euthanized by decapitation; all other fetuses will be euthanized by an intraperitoneal injection of a commercial euthanasia agent.

(H-28746) 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats DuPont-18011-841

c. Postmortem Observations of Females Dying Prior to Scheduled Euthanasia

A gross external and visceral examination will be performed immediately after euthanasia if an animal is sacrificed prior to scheduled euthanasia or in a timely manner after the female is found dead. Dams found dead will be refrigerated until necropsied. Pregnancy status will be recorded. The uterus of each apparently "nonpregnant" female will be stained with ammonium sulfide⁽⁴⁾ to detect very early resorptions. Lesions and/or grossly abnormal uterine contents will be recorded as a maternal gross postmortem finding and will be retained for further examination at the discretion of the study director or designee.

d. Postmortem Observations of Females Delivering Early

Dams that deliver before scheduled euthanasia will be euthanized in a timely manner of detection and a gross external and visceral examination will be performed. Lesions and/or grossly abnormal uterine contents will be recorded as a maternal gross postmortem finding and will be retained for further examination at the discretion of the study director or designee. Unless indicated otherwise by study director or their designee, any fetuses delivered or those remaining in the uterus will be examined to the extent possible and retained at discretion of the study director or designee.

e. Postmortem Observations of Females Surviving to Scheduled Euthanasia

A gross external and visceral examination will be performed immediately after euthanasia. Gross lesions will be retained for possible histologic examination; lesions for which a microscopic diagnosis would not be additive (e.g., osteoarthritis, pododermatitis, tail chronic dermatitis, calculus, and deformities of the teeth, toe, tail, or ear pinnae) will not be saved.

Viscera will be examined grossly immediately after euthanasia. Lesions noted will be retained for further examination at the discretion of the study director or a designee. The intact and the empty uterus of each dam having at least one viable fetus will be weighed to permit calculation of maternal body weight adjusted to exclude the products of conception. The corpora lutea count for each ovary of females with viable fetuses will be recorded.

The gravid uterus of each female having at least one viable fetus will be weighed to permit calculation of maternal body weight adjusted to exclude the products of conception. The corpora lutea count for each ovary of females with visible implantation sites will be recorded.

For each female with visible implantation sites, the types of implants (live and dead fetuses, and resorptions) and their relative positions will be recorded. The body weight of each live fetus will be recorded. The uterus of each apparently "nonpregnant" female will be stained with 10% aqueous solution of ammonium sulfide⁽⁴⁾ to detect very early resorptions.

(H-28746) 70% Glycolic Acid Technical Solution. Developmental Toxicity Study in Rats DuPont-18011-841

The types of implantations are:

Live fetus:	Fully formed and responds to stimuli
Dead fetus:	Fully formed with little or no evidence of maceration.
Late resorption:	Identifiable structures (i.e., digital rays)
Early resorption:	No visible fetal structures

Uteri with no visible implantation sites will be placed in a 10% aqueous solution of ammonium sulfide to detect very early resorptions.

f. Fetuses of Females Surviving to Scheduled Euthanasia

Those fetuses classified as dead will be examined externally, visceraally, and skeletally to the extent possible. Data for these fetuses will be excluded from all calculations performed for live fetuses.

i. External Examination

All fetuses classified as live will be examined externally for alterations. External sex will be recorded for each live fetus.

ii. Visceral and Head Examination

For each litter, approximately half of the live fetuses will be examined for visceral alterations by fresh tissue dissection.⁽⁵⁾ In addition, all live fetuses with malformations visible at external examination will be examined for soft tissue alterations; decapitation of these fetuses for head examination will be performed at the discretion of the study director or designee.

Fetal organs or tissues will be retained if deemed necessary for obtaining a definitive diagnosis. Bilateral organs will be retained when only one is affected. Sufficient tissues from control fetuses will be fixed to provide comparison with suspect tissues, if needed; tissues will be discarded if not needed.

The frozen heads of decapitated fetuses (fetuses that were decapitated prior to visceral examination; approximately half of the fetuses) will be examined by a serial sectioning technique.⁽⁶⁾

iii. Skeletal Examination

All fetuses classified as live will be fixed in alcohol, processed and the skeletons stained with alizarin-red. The skeletal bodies of all the fetuses and the skulls of half the fetuses (fetuses that were not designated for head examination) will be examined for alterations.

(H-28746) 70% Glycolic Acid Technical Solution. Developmental Toxicity Study in Rats DuPont-18011-841

H. Statistical Methods

Parameter	Method of Statistical Analysis (see Appendix A for references)		
	Preliminary Test	If Preliminary Test is Not Significant	If preliminary test is significant
Maternal weight Maternal weight change Maternal food consumption <i>Corpora lutea</i> Implantations Live fetuses Dead fetuses Resorptions	Levene's test for homogeneity and Shapiro-Wilk test for normality ^a	One-way analysis of variance and Dunnett's test	Kruskal-Wallis test followed by Dunn's test
Incidence of pregnancy Maternal mortality Females with total resorptions Early deliveries	None	Sequential application of Cochran-Armitage test ^b	
Incidence of fetal alterations	None	Exact Mann-Whitney with a Bonferroni- Holm adjustment	
Fetal weight (Covariates: litter size, sex ratio) Sex ratio (Covariate: litter size)	Levene's test for homogeneity and Shapiro-Wilk test for normality ^c	Analysis of covariance and Dunnett-Hsu	Non-parametric analysis of covariance

- a If the Shapiro-Wilk test is not significant but Levene's test is significant, a robust version of Dunnett's test will be used. If the Shapiro-Wilk test is significant, Kruskal-Wallis test is followed by Dunn's test.
- b If the incidence is not significant, but a significant lack of fit occurs, then Fisher's Exact test with a Bonferroni correction is used.
- c A normalizing, variance stabilizing transformation may be used as needed.

For litter parameters, the proportion of affected fetuses per litter or the litter mean will be used as the experimental unit for statistical evaluation.⁽⁷⁾ The level of significance selected is $p < 0.05$. Additional statistical tests may be used and other parameters analyzed, if deemed necessary.

SAFETY AND HOUSEKEEPING

Good housekeeping procedures will be practiced to avoid contamination of dosing formulation preparation facilities and potential health hazards. To avoid skin contact, gloves will be worn when handling the test substance or dosing formulations. The neat test substance and dosing formulations will be prepared in properly ventilated areas. Animal carcasses and feces will be incinerated.

RECORDS AND SAMPLE STORAGE

All raw data, the protocol, amendments (if any), and the final report will be retained.

Specimens (if applicable), raw data, the protocol, amendments (if any), and the final report will be retained at DuPont Haskell, Newark, Delaware, Iron Mountain Records Management, Wilmington, Delaware, or Quality Associates Incorporated, Fulton, Maryland.

(H-28746) 70% Glycolic Acid Technical Solution Developmental Toxicity Study in Rats DuPont-18011-841

STUDY DATES

Proposed Experimental Start: November 23, 2008

Proposed Experimental Termination: January, 2009 (Approximately)

REFERENCES

1. DuPont Haskell. (2005). Pilot Developmental Toxicity Study of 70% Glycolic Acid Technical Solution in Rats. Unpublished Data. DuPont Haskell DuPont-HLR 96-95. Work Request Number (WR) 10042-001.
2. DuPont Haskell. (2006). Developmental Toxicity Study of Glycolic Acid in Rats. DuPont Haskell DuPont-HLR 191-96. Work Request Number (WR) 10492-001.
3. Carney, E.W., Freshour, N.L., Dittenber, D.A., and Dryzga, M.D. (1999). Ethylene Glycol Developmental Toxicity: Unraveling the Roles of Glycolic Acid and Metabolic Acidosis. *Toxicological Sciences* **50**, 117-126.
4. Salewski, E. (1964). Farbemethode zum makroskopischen Nachweis von Implantationstellen am Uterus der Ratte. *Archiv. Path. Exp. Pharmacol.* **247**, 367.
5. Staples, R.E. (1974). Detection of visceral alterations in mammalian fetuses. *Teratology* **9**(3), A37-A38.
6. Astroff AB, Ray SE, Rowe LM, Hilbish KG, Linville AL, Stutz JP, Breslin WJ. (2002). Frozen-sectioning yields similar results as traditional methods for fetal cephalic examination in the rat. *Teratology* **66**(2), 77-84.
7. Haseman, J.K. and Hogan, M.D. (1975). Selection of the experimental unit in teratology studies. *Teratology* **12**, 165-171.

(H-28746) 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats DuPont-18011-841

APPENDIX A

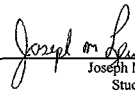
References for Statistical Methods

Test	Reference(s)
Levene's	Levene, H. (1960). Robust test for equality of variances. <i>Contributions to Probability and Statistics</i> (J. Olkin, ed.), pp 278-292. Stanford University Press, Palo Alto.
Shapiro-Wilk	Shapiro, S.S. and Wilk, M.B. (1965). An analysis of variance test for normality (complete samples). <i>Biometrika</i> 52 , 591-611.
One-way analysis of variance Cochran-Armitage Analysis of covariance	Snedecor, G.W. and Cochran, W.G. (1967). <i>Statistical Methods</i> , 6th edition, pp 246-248 and 349-352. The Iowa State University Press, Ames.
Dunnett's	Dunnett, C.W. (1964). New tables for multiple comparisons with a control. <i>Biometrics</i> 20 , 482-491. Dunnett, C.W. (1980). Pairwise multiple comparisons in the unequal variance case. <i>J. Amer. Statist. Assoc.</i> 75 , 796-800. Tamhane, A.C. (1979). A comparison of procedures for multiple comparison of means with unequal variances. <i>J. Amer. Statist. Assoc.</i> 74 , 471-480.
Kruskal-Wallis	Kruskal, W.H. and Wallis, W.A. (1952). Use of ranks in one-criterion analysis of variance. <i>J. Amer. Statist. Assoc.</i> 47 , 583-621.
Dunn's	Dunn, O.J. (1964). Multiple contrasts using rank sums. <i>Technometrics</i> 6 , 241-252.
Exact Mann-Whitney with a Bonferroni-Holm adjustment	Agresti, A. (1992). A Survey of Exact Inference for Contingency Tables. <i>Statistical Science</i> , 7 (1), 131-177. Mehta, C.R., Patel, N.R., and Tsiatis, A.A. (1984). Exact Significance Testing to Establish Treatment Equivalence with Ordered Categorical Data. <i>Biometrics</i> , 40 , 819-825.
Dunnett-Hsu	Hsu, J.C. (1992). The Factor Analytic Approach to Simultaneous Inference in the General Linear Model. <i>Journal of Computational and Graphical Statistics</i> 1 , 151-168.
Non-parametric analysis of covariance	Stephenson, W.R., Jacobson, D. (1988). A comparison of Nonparametric Analysis of Covariance Techniques, <i>Communications in Statistics - Simulations</i> 17 , 17(2), 451-461.
Fisher's Exact	Fisher, R.A. (1985). <i>Statistical Methods for Research Workers</i> , 13th edition. Haffner, New York.
Sequential application of trend test	Selwyn, M.R. (1995). The use of trend tests to determine a no-observable-effect level in animal safety studies. <i>J. Am. Coll. Toxicol.</i> 14 (2), 158-168.

(H-28746) 70% Glycolic Acid Technical Solution Developmental Toxicity Study in Rats DuPont-18011-841

SIGNATURES

Approved by:



Joseph M. Lewis, B.A.
Study Director

20-Nov-2008
Date

Appendix C
Analysis for Test Substance in Dosing Formulations

DuPont-18011-841-AN

ANALYSIS FOR H-28746 IN DOSE SAMPLES

for

(H-28746) 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats

Work Request Number:	18011
Service Code:	841
Haskell Sample Number:	28746
Analytical Report Number:	DuPont-18011-841-AN
DuPont Study Number	DuPont-18011-841

SUMMARY

H-28746 samples at the concentrations of 10 and 90 mg/mL prepared on November 19, 2008, were submitted to establish room temperature stability. Dose samples at the concentrations of 10, 30, and 90 mg/mL prepared on November 21, 2008 and December 8, 2008, were submitted for concentration verification analyses. A 0 mg/mL control sample containing the vehicle only, deionized (DI) water, was included with each set of the dose samples for analysis.

Concentrations of H-28746 in dose samples were determined by high-performance liquid chromatography (HPLC) with ultraviolet (UV) detection.

The analysis results show that the test substance was at the targeted concentrations for all dose levels and stable under the storage conditions for the study.

Test substance was not detected in the control samples.

DuPont-18011-841-AN

MATERIALS AND METHODS

All solvents used were HPLC grade.

1. Dose Sample Preparation

Each sample was diluted with water to a nominal concentration of 1.0, 1.2, and 0.9 mg/mL for 10, 30, and 90 mg/mL samples, respectively and then analyzed by HPLC. The 0 mg/mL control sample was analyzed by HPLC directly without any preparation.

2. Chromatographic Conditions

Concentrations of H-28746 in diluted dose samples were determined by HPLC with UV detection.

Instrument:	Agilent 1100 liquid chromatograph
Column:	Zorbax SB-C18, 4.6 x 150 mm, 5 μ m
Flow Rate:	1.000 mL/min.
Stoptime:	5.00 min.
Mobile phase:	2% Acetonitrile / 98% 3.1 mM H ₃ PO ₄
Detection:	UV absorbance at 210 nm
Injection Volume:	5.00 μ L
Column Temperature:	40.0°C

3. Calibration and Quantitation

The test substance (H-28746 with no purity adjustment) was used as the analytical standard to make a stock solution in water. The stock solution was further diluted to make a set of standard solutions that covered the targeted concentrations of the diluted samples. Peak areas from the HPLC analysis of these standard solutions were used to construct a calibration curve by Agilent's ChemStation software (see Figure 1 for a representative curve). Measured concentrations for the samples were determined by applying the peak areas from replicate injections of each sample to the calibration curve.

Concentration verification of the test substance in the samples was evaluated by the average results of the duplicate sample analyses for each dose level. Relative standard deviation (RSD = standard deviation/average x 100%) was calculated from the duplicate analyses to confirm the concentrations.

Stability of the test substance in the samples was evaluated by using the average results of the duplicate sample analyses as the baselines for comparing the corresponding stability results.

DuPont-18011-841-AN

RESULTS AND DISCUSSION

1. Chromatography

H-28746 eluted from the HPLC column as a resolved peak with a retention time of approximately 1.6 minutes. Test substance was not detected in the control samples. Representative HPLC chromatograms are shown in Figures 2a - c.

2. Stability Results

Detailed results for stability analysis of the samples are shown in Table 1.

The data for the samples prepared on November 19, 2008, show that the test substance was at the targeted concentrations ($\pm 4.4\%$ of nominal, RSD's = 2% and 0.4%, respectively) on the day of preparation and stable when stored at the room temperature for up to 6 days at the concentrations of 10 and 90 mg/mL in the vehicle.

3. Concentration Verification Results

Detailed results for the concentration verification analyses for the dose samples are shown in Table 2.

The data for the dose samples prepared on November 21, 2008 and December 8, 2008, show that the test substance was at the targeted concentrations ($\pm 14.4\%$ of nominal, RSD's $\leq 6\%$) for all dose levels in the vehicle. Test substance was not detected in the control samples.

4. Conclusions

The analytical results show that the test substance was stable in the concentration range from 10 to 90 mg/mL after 6-day room temperature storage in the vehicle. Test substance was at the targeted concentrations for all dose levels in the vehicle. Test substance was not detected in the control samples.

DuPont-18011-841-AN

Table 1: Stability Results of H-28746

Date Sample Prepared	H-28746 (mg/mL)		Percent
Sample Type	Nominal	Measured	Nominal
19-November-2008			
<u>Concentration Verification</u>			
# 1	10	10.4	104.0
# 2	10	10.1	101.0
	<i>Average \pm SD^(A)</i>	<i>10.3 \pm 0.2</i>	<i>(103.0)^(A)</i>
	<i>RSD^(A)</i>	<i>2%</i>	
# 1	90	93.7	104.1
# 2	90	94.2	104.7
	<i>Average \pm SD</i>	<i>94.0 \pm 0.4</i>	<i>(104.4)</i>
	<i>RSD</i>	<i>0.4%</i>	
<u>2-Day Stability^(B)</u>			
# 1	10	10.3	103.0
# 2	10	10.5	105.0
	<i>Average \pm SD</i>	<i>10.4 \pm 0.1</i>	<i>(104.0)</i>
	<i>RSD</i>	<i>1%</i>	
# 1	90	93.0	103.3
# 2	90	96.2	106.9
	<i>Average \pm SD</i>	<i>94.6 \pm 2.3</i>	<i>(105.1)</i>
	<i>RSD</i>	<i>2%</i>	
<u>6-Day Stability^(B)</u>			
# 1	10	10.6	106.0
# 2	10	10.4	104.0
	<i>Average \pm SD</i>	<i>10.5 \pm 0.1</i>	<i>(105.0)</i>
	<i>RSD</i>	<i>1%</i>	
# 1	90	95.8	106.4
# 2	90	97.4	108.2
	<i>Average \pm SD</i>	<i>96.6 \pm 1.1</i>	<i>(107.3)</i>
	<i>RSD</i>	<i>1%</i>	

^(A) Concentration for each level is the average of the duplicate analysis results; SD (standard deviation) and RSD calculated to verify concentrations. The percent nominal of the average is shown in parenthesis.

^(B) Samples stored at the room temperature for 2 or 6 days before preparation for analysis.

DuPont-18011-841-AN

Table 2: Concentration Verification of H-28746 in Dose Samples

Table 2. Concentration Verification of H-28746 in Dose Samples

Sample Type	H-28746 (mg/mL)		Percent
Date Sample Prepared	Nominal	Measured	Nominal
<u>Concentration Verification</u>			
21-November-2008			
Control	0	ND ^(A)	---
# 1	10	10.3	103.0
# 2	10	9.81	98.1
	<i>Average ± SD^(B)</i> <i>RSD^(B)</i>	<i>10.1 ± 0.3</i> <i>3%</i>	<i>(101.0)^(B)</i>
# 1	30	31.1	103.7
# 2	30	30.9	103.0
	<i>Average ± SD</i> <i>RSD</i>	<i>31.0 ± 0.1</i> <i>0.5%</i>	<i>(103.3)</i>
# 1	90	99.0	110.0
# 2	90	101	112.2
	<i>Average ± SD</i> <i>RSD</i>	<i>100 ± 1</i> <i>1%</i>	<i>(111.1)</i>
8-December-2008			
Control	0	ND	---
# 1	10	10.7	107.0
# 2	10	10.4	104.0
	<i>Average ± SD</i> <i>RSD</i>	<i>10.6 ± 0.2</i> <i>2%</i>	<i>(106.0)</i>
# 1	30	31.9	106.3
# 2	30	33.5	111.7
	<i>Average ± SD</i> <i>RSD</i>	<i>32.7 ± 1.1</i> <i>3%</i>	<i>(109.0)</i>
# 1	90	108	120.0
# 2	90	98.9	109.9
	<i>Average ± SD</i> <i>RSD</i>	<i>103 ± 6</i> <i>6%</i>	<i>(114.4)</i>

^(A) ND = Not Detected.

^(B) Concentration for each level is the average of the duplicate analysis results, SD and RSD calculated to verify concentrations. The percent nominal of the average is shown in parenthesis.

DuPont-18011-841-AN

Figure 1
Representative Calibration Curve

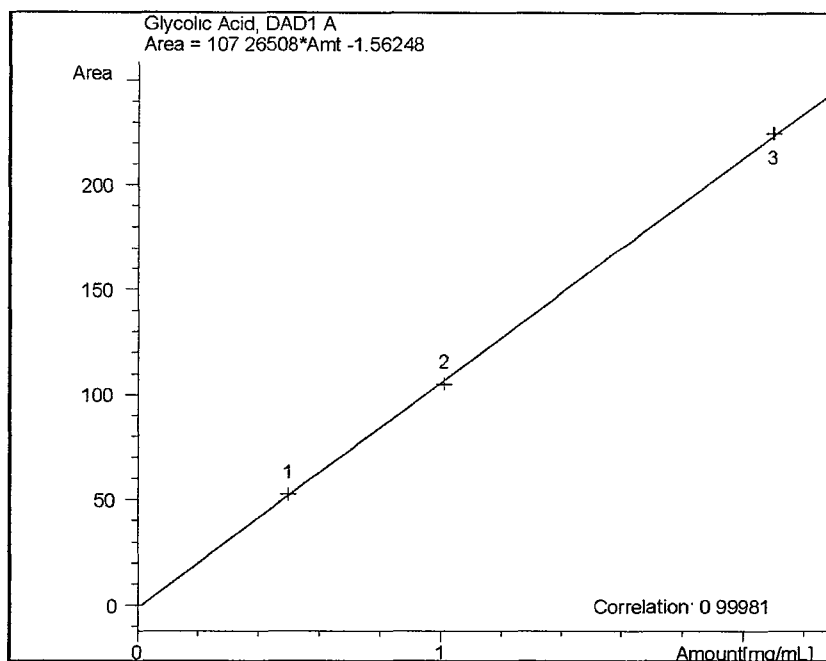


Figure 1. Representative calibration curve showing linear fit to replicate peak area measurements for calibration standard solutions of H-28746 over the concentration range from 0.498 to 2.10 mg/mL.

DuPont-18011-841-AN

Figure 2
Representative HPLC Chromatograms

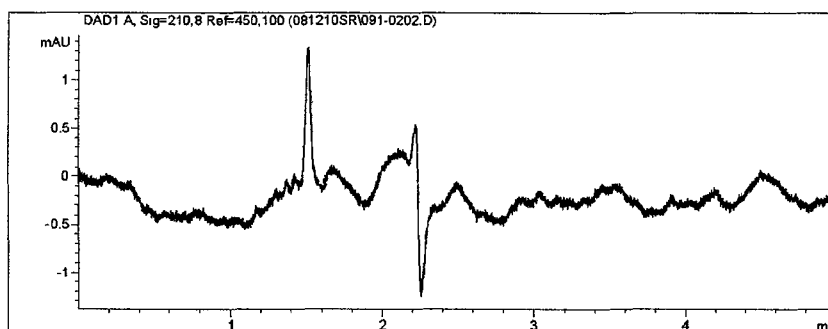


Figure 2a: Representative HPLC chromatogram of 0 mg/mL control dose sample. Retention time of H-28746 was approximately 1.6 minutes

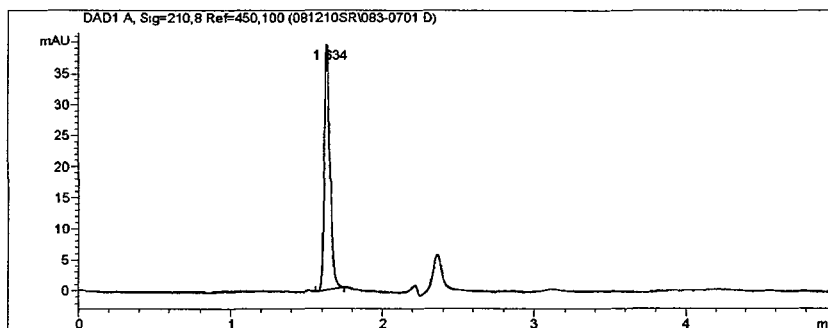


Figure 2b. Representative HPLC chromatogram of 1.01 mg/mL H-28746 calibration standard solution.

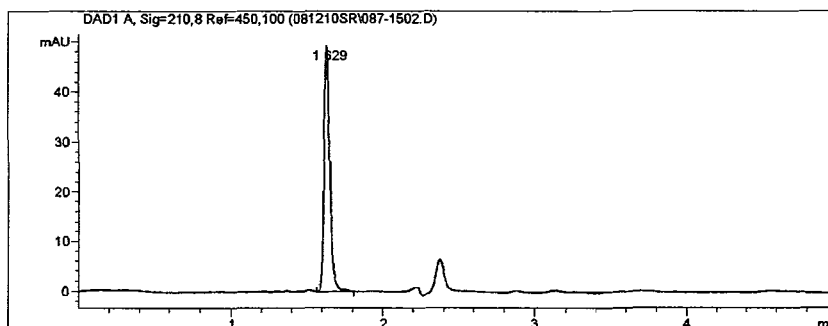


Figure 2c. Representative HPLC chromatogram of 30 mg/mL H-28746 dose sample diluted to a nominal concentration of 1.2 mg/mL for analysis.

Appendix D
Individual Maternal Body Weights

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			6	7	8	9	10	11	12	13
1f	101	PC	234.9	240.7	250.1	251.9	261.1	266.1	271.9	276.0
	102	PC	230.9	235.8	241.9	247.9	254.1	258.7	264.2	267.7
	103	PC	252.2	260.5	268.5	275.7	287.1	290.0	299.0	305.9
	104	PC	235.0	238.6	246.8	247.2	252.9	258.7	268.4	270.3
	105	PC	257.6	266.5	277.1	280.6	293.7	296.1	306.3	308.1
	106	PC	248.6	253.8	259.5	265.4	273.7	282.2	287.1	298.4
	107	PC	251.5	256.6	261.5	269.2	273.8	278.2	280.3	283.4
	108	PC	240.2	241.5	245.0	250.2	262.0	263.5	271.5	267.6
	109	PC	250.0	260.1	269.3	276.7	282.8	290.8	297.1	295.1
	110	PC	263.1	269.3	270.6	278.3	286.4	299.2	301.0	304.3
	111	PC	226.1	228.1	228.4	234.4	241.7	253.1	253.0	256.5
	112	PC	247.3	259.2	263.3	271.3	278.1	285.3	291.1	293.2
	113#	NP	240.4	245.4	251.7	255.6	255.5	258.6	250.1	251.2
	114	PC	256.9	254.7	261.2	264.7	269.1	275.0	275.6	286.8
	115	PC	259.5	259.9	263.8	264.2	275.0	284.0	292.2	299.9
	116	PC	240.1	245.2	247.8	249.9	258.2	264.9	264.4	276.3
	117	PC	242.3	245.8	253.4	258.1	272.0	276.6	281.0	291.6
	118	PC	249.4	255.3	259.5	263.1	268.7	277.3	284.0	283.8
	119	PC	227.7	232.9	240.0	246.3	251.3	253.5	266.4	268.5
	120	PC	255.2	266.6	267.1	275.0	279.6	287.0	291.5	296.3
	121	PC	255.2	263.1	270.7	279.8	286.8	290.0	301.1	306.6
	122	PC	239.1	242.4	252.1	254.5	263.2	269.8	278.3	281.8

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			14	15	16	17	18	19	20	21
1f	101	PC	281.3	290.6	300.2	307.1	327.0	343.1	360.1	375.3
	102	PC	266.5	279.8	282.7	295.2	310.9	321.4	339.3	349.3
	103	PC	308.8	319.9	332.4	343.3	362.6	382.2	402.8	427.2
	104	PC	264.4	270.8	276.2	290.7	307.2	318.0	335.8	351.0
	105	PC	314.2	327.0	329.7	341.4	362.5	380.6	394.3	406.5
	106	PC	301.6	314.6	318.5	330.6	347.6	363.2	385.6	403.9
	107	PC	291.3	297.8	301.7	309.7	320.8	336.3	341.6	360.7
	108	PC	277.1	277.4	286.4	296.9	313.1	329.7	338.1	355.6
	109	PC	300.5	313.2	320.0	342.8	356.4	374.0	391.4	424.5
	110	PC	312.2	315.9	317.8	335.7	346.9	362.2	369.7	387.8
	111	PC	263.9	264.5	274.8	278.8	295.9	308.6	318.1	328.3
	112	PC	302.9	301.6	316.2	331.2	344.1	361.0	376.7	391.2
	113#	NP	252.2	258.3	257.9	251.5	261.8	263.3	266.3	256.4
	114	PC	292.9	298.7	313.6	326.8	339.9	356.1	371.6	388.0
	115	PC	304.3	315.0	327.7	341.9	350.1	369.7	394.1	424.5
	116	PC	277.1	287.3	294.8	311.2	323.1	340.3	358.7	380.6
	117	PC	296.7	309.6	325.5	340.6	363.4	382.3	402.8	427.6
	118	PC	289.1	300.6	312.2	326.7	342.2	360.4	378.2	393.1
	119	PC	273.2	284.1	297.8	309.4	322.4	334.5	352.6	367.4
	120	PC	300.4	309.6	323.7	336.7	350.2	365.8	384.0	398.4
	121	PC	313.8	322.9	335.5	349.6	363.3	375.1	388.3	406.3
	122	PC	287.5	295.1	301.6	313.4	324.3	337.7	349.1	362.1

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			6	7	8	9	10	11	12	13
2f	201	PC	237.6	245.2	250.5	258.7	266.6	271.0	275.7	283.2
	202	PC	237.9	247.1	248.4	254.1	256.7	262.7	268.5	270.8
	203	PC	229.1	236.1	242.3	246.7	254.1	258.1	269.3	276.9
	204	PC	258.0	266.9	270.7	274.9	284.0	290.5	296.2	307.0
	205	PC	250.8	254.0	260.4	270.2	277.4	282.6	288.0	298.2
	206	PC	245.9	243.1	253.6	260.1	264.5	272.0	282.1	281.2
	207	PC	259.5	259.9	266.6	280.6	281.7	294.7	302.5	305.6
	208	PC	246.0	249.7	256.8	264.9	275.1	283.1	288.5	290.6
	209	PC	234.2	237.7	244.0	251.9	253.4	259.2	265.7	265.4
	210	PC	246.7	251.1	258.0	264.7	272.5	280.6	283.9	290.5
	211	PC	255.5	261.6	269.4	279.9	279.8	291.4	305.0	303.3
	212	PC	258.7	264.9	269.7	278.8	281.8	289.1	286.5	300.9
	213	PC	245.6	253.6	260.7	265.0	269.0	277.5	277.7	287.6
	214	PC	251.6	254.7	258.5	262.1	269.8	280.0	277.0	287.8
	215	PC	243.2	248.9	253.7	261.7	260.9	271.2	271.0	276.8
	216	PC	252.5	259.3	263.9	274.9	274.2	279.5	282.8	293.8
	217	PC	249.5	253.7	264.3	268.8	277.8	282.8	283.3	300.7
	218	PC	246.9	253.9	256.3	263.9	270.8	276.3	285.0	285.7
	219	PC	252.9	253.2	261.1	267.5	271.3	269.8	280.8	280.7
	220	PC	236.0	234.3	240.7	243.4	246.3	252.4	261.1	260.5
	221	PC	262.4	271.5	273.3	282.0	285.1	287.1	301.5	296.8
	222	PC	283.6	293.1	297.3	307.7	311.7	320.7	326.4	334.5

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			14	15	16	17	18	19	20	21
2f	201	PC	284.6	298.3	304.4	316.0	340.3	355.1	367.0	391.7
	202	PC	273.7	281.1	287.8	298.5	313.8	329.1	344.9	358.4
	203	PC	278.9	289.2	306.9	313.8	328.5	349.4	366.6	387.4
	204	PC	303.1	316.5	322.2	328.5	350.7	366.8	384.4	407.9
	205	PC	303.7	317.6	321.4	336.8	360.5	380.1	411.9	437.3
	206	PC	287.1	298.8	309.5	313.7	337.1	355.1	370.7	391.6
	207	PC	313.6	316.9	325.3	344.0	361.0	387.2	399.7	418.8
	208	PC	301.9	310.2	319.6	338.5	353.2	376.8	394.3	417.0
	209	PC	269.9	276.3	282.9	298.7	306.3	322.0	338.2	359.2
	210	PC	295.3	302.4	310.5	328.7	348.6	367.2	385.8	402.5
	211	PC	309.7	319.4	328.0	346.1	356.6	379.0	392.7	415.9
	212	PC	297.7	304.1	318.2	329.2	343.5	357.9	382.0	395.0
	213	PC	285.1	297.8	308.0	315.0	323.0	341.6	363.6	377.1
	214	PC	287.1	300.2	313.8	327.5	340.1	359.0	374.3	401.3
	215	PC	283.5	290.4	297.9	308.0	323.0	339.8	355.4	374.4
	216	PC	294.9	303.6	313.2	332.6	348.7	363.0	376.2	390.7
	217	PC	300.3	315.8	333.4	347.3	361.6	377.3	404.9	423.6
	218	PC	289.2	302.0	309.3	326.2	342.1	356.2	385.6	399.0
	219	PC	286.8	299.6	306.7	327.7	337.6	354.7	374.2	394.8
	220	PC	262.5	274.2	277.9	295.4	312.7	320.6	332.9	363.8
	221	PC	299.3	318.9	320.3	333.6	356.4	366.6	393.1	413.1
	222	PC	341.0	349.7	360.4	383.4	398.3	417.9	440.2	475.5

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			6	7	8	9	10	11	12	13
3f	301	PC	239.6	245.1	248.5	257.3	266.5	276.8	279.6	284.8
	302	PC	264.0	274.7	276.7	283.4	295.9	301.1	310.3	315.0
	303	PC	232.2	237.3	245.6	249.3	258.9	260.8	264.7	248.7
	304	PC	249.2	254.2	265.4	266.2	275.7	278.1	282.7	282.0
	305	PC	243.6	247.6	255.3	255.4	263.0	267.6	275.7	280.9
	306	PC	248.3	256.2	260.6	266.5	277.8	288.0	292.0	297.2
	307	PC	242.4	247.4	251.4	258.5	268.8	278.3	285.2	286.5
	308	PC	242.1	246.2	249.8	267.1	270.8	280.6	287.7	294.8
	309	PC	260.2	266.0	266.2	272.8	282.1	292.8	304.6	304.5
	310	PC	251.5	253.9	256.9	263.1	271.7	274.7	278.4	285.7
	311	PC	235.5	235.0	235.4	246.8	251.7	254.1	262.1	266.0
	312	PC	252.1	257.1	258.7	266.5	273.3	281.7	285.8	293.2
	313#	NP	255.3	255.4	263.6	267.0	277.2	278.9	280.4	273.5
	314	PC	252.3	255.5	263.8	269.3	269.6	276.3	280.9	292.0
	315	PC	243.1	245.7	250.4	260.4	263.5	270.2	273.4	284.9
	316	PC	249.5	251.7	258.5	258.2	264.9	270.7	277.8	282.4
	317	PC	252.5	256.2	266.3	270.8	275.0	285.9	291.7	302.7
	318	PC	233.2	241.5	246.5	248.0	253.7	263.4	272.1	272.3
	319	PC	224.8	233.7	238.0	245.7	251.9	259.7	267.1	273.7
	320	PC	250.0	261.8	263.9	271.4	275.3	281.5	288.9	287.8
	321	PC	251.1	252.1	257.1	260.2	267.3	277.7	279.4	284.7
	322	PC	269.7	278.8	279.1	289.6	292.2	297.6	306.1	310.7

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			14	15	16	17	18	19	20	21
3f	301	PC	286.6	298.4	303.3	311.2	332.2	341.4	362.1	376.7
	302	PC	326.0	334.0	346.7	361.1	380.5	395.3	426.0	434.4
	303	PC	269.6	277.6	288.0	294.9	305.0	323.1	336.5	364.3
	304	PC	288.9	311.5	316.4	326.1	340.2	359.3	384.7	400.5
	305	PC	281.5	296.3	301.8	311.8	326.0	335.4	356.2	369.2
	306	PC	295.0	302.1	312.2	329.0	347.5	359.3	382.5	415.6
	307	PC	299.2	303.8	313.6	324.7	351.4	365.9	378.0	405.2
	308	PC	301.3	307.8	315.7	329.0	345.4	363.7	375.0	402.6
	309	PC	308.5	322.4	330.6	347.3	363.0	371.9	392.1	415.9
	310	PC	290.0	297.8	308.7	321.2	337.1	350.7	366.5	394.2
	311	PC	270.3	277.6	287.3	294.5	306.1	324.3	339.3	367.6
	312	PC	296.3	311.8	319.0	334.0	345.3	364.1	383.4	407.8
	313#	NP	274.3	277.4	275.5	275.9	285.6	291.2	288.5	285.7
	314	PC	294.3	303.2	322.6	340.5	359.8	374.0	388.3	408.1
	315	PC	286.6	300.5	315.5	330.3	350.2	362.9	380.4	411.8
	316	PC	288.9	291.6	305.4	316.5	332.2	344.3	361.5	378.1
	317	PC	300.5	311.3	322.5	333.2	357.7	372.3	389.8	418.8
	318	PC	282.4	291.8	303.2	316.2	330.2	349.2	364.5	382.9
	319	PC	278.9	285.0	300.8	308.2	320.0	338.9	360.0	370.3
	320	PC	290.4	298.2	310.7	323.8	346.7	361.7	377.9	403.3
	321	PC	294.1	299.7	309.0	319.1	336.7	349.7	363.8	382.7
	322	PC	320.7	337.6	346.9	359.7	377.1	394.5	418.2	429.5

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			6	7	8	9	10	11	12	13
4f	401	PC	233.5	238.9	244.9	252.5	260.6	268.9	276.7	277.3
	402	PC	248.3	255.6	260.5	267.4	276.3	280.2	284.2	291.1
	403	PC	249.9	258.4	263.4	271.2	281.7	290.3	297.7	299.6
	404	PC	240.1	248.2	253.6	259.6	264.7	274.4	282.3	284.6
	405	PC	253.0	256.7	264.6	268.1	277.0	283.3	281.1	278.8
	406	PC	244.1	248.3	255.8	256.0	269.3	269.4	273.7	278.6
	407	PC	242.4	245.2	248.2	259.5	265.6	273.8	281.2	289.8
	408	PC	245.6	248.1	251.2	262.5	266.1	271.8	278.8	280.4
	409	PC	255.1	259.5	260.3	271.0	275.1	289.8	293.5	298.4
	410	PC	245.0	247.3	251.5	256.6	265.8	272.6	280.3	280.7
	411	PC	231.8	237.4	239.2	250.2	255.0	262.1	266.0	268.7
	412	PC	251.8	257.6	257.0	265.0	273.4	278.7	284.5	289.3
	413	PC	236.4	235.7	242.6	244.8	253.3	261.6	271.2	267.4
	414	PC	259.2	262.8	274.2	281.0	289.7	296.0	305.3	314.7
	415	PC	237.5	235.5	239.3	247.6	252.0	260.1	265.6	272.2
	416	PC	248.1	253.2	255.3	260.8	264.9	274.2	276.6	284.6
	417	PC	251.0	250.5	262.5	270.1	276.6	285.0	294.7	300.9
	418	PC	215.6	223.6	229.1	233.1	240.3	243.0	251.7	251.7
	419	PC	272.6	278.6	285.7	297.5	306.2	313.9	317.8	317.2
	420	PC	255.5	261.1	264.4	276.5	281.5	288.7	295.6	298.4
	421	PC	255.0	257.7	264.2	251.9	261.0	266.6	271.7	272.1
	422	PC	237.6	238.4	244.1	247.3	257.1	242.9	253.1	260.2

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weights (grams)

Group Sex	Animal Number	Pregnancy Outcome	Gestation Day							
			14	15	16	17	18	19	20	21
4f	401	PC	282.2	290.7	297.7	304.8	320.5	335.9	343.6	364.0
	402	PC	292.4	300.6	303.7	313.9	325.3	345.3	358.7	375.9
	403	PC	306.1	316.2	322.8	336.8	356.9	368.1	384.5	403.2
	404	PC	280.3	292.1	301.8	319.4	341.5	363.9	369.4	392.1
	405	PC	281.6	300.3	312.9	325.9	344.7	367.7	381.8	404.0
	406	PC	285.9	288.6	298.8	311.0	319.0	333.7	351.5	369.5
	407	PC	293.9	297.1	309.5	324.7	340.4	358.4	372.1	394.6
	408	PC	287.0	289.9	295.9	309.1	319.0	329.4	343.0	361.8
	409	PC	306.7	314.4	320.8	346.2	363.8	376.8	399.0	429.8
	410	PC	287.2	291.3	298.8	311.9	323.2	335.8	351.5	370.1
	411	PC	274.8	279.4	284.2	295.1	306.7	319.3	326.8	343.6
	412	PC	294.0	302.0	314.7	326.3	338.9	355.0	369.1	394.7
	413	PC	276.0	284.4	293.3	305.1	316.8	334.6	347.5	369.6
	414	PC	319.9	333.0	340.8	353.5	368.1	387.2	396.8	424.5
	415	PC	279.1	289.1	303.5	310.8	321.2	338.8	359.2	376.5
	416	PC	285.7	286.8	295.9	307.2	316.2	319.7	332.0	351.2
	417	PC	308.4	320.6	324.1	336.4	355.7	369.8	386.1	404.4
	418	PC	256.9	266.8	275.3	287.9	294.3	303.6	321.1	333.1
	419	PC	330.1	335.9	345.7	359.6	371.3	390.5	401.9	406.5
	420	PC	305.0	317.4	322.2	332.4	348.9	367.0	380.1	398.7
	421	PC	284.3	289.1	298.8	301.8	316.9	325.6	343.0	353.3
	422	PC	267.0	275.5	287.7	298.0	313.2	321.6	343.8	359.9

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Appendix E
Individual Maternal Body Weight Gains

Individual Maternal Body Weight Gains (grams)													
Gestation Day													
Group	Animal	Pregnancy	Base	From:	6	7	8	9	10	11	12	13	14
Sex	Number	Outcome	Weight	To:	6	7	8	9	10	11	12	13	14
			Day		6	7	8	9	10	11	12	13	14
			6		7	8	9	10	11	12	13	14	15
1f	101	PC	234.9		5.8	9.4	1.8	9.2	5.0	5.8	4.1	5.3	9.3
	102	PC	230.9		4.9	6.1	6.0	6.2	4.6	5.5	3.5	-1.2	13.3
	103	PC	252.2		8.3	8.0	7.2	11.4	2.9	9.0	6.9	2.9	11.1
	104	PC	235.0		3.6	8.2	0.4	5.7	5.8	9.7	1.9	-5.9	6.4
	105	PC	257.6		8.9	10.6	3.5	13.1	2.4	10.2	1.8	6.1	12.8
	106	PC	248.6		5.2	5.7	5.9	8.3	8.5	4.9	11.3	3.2	13.0
	107	PC	251.5		5.1	4.9	7.7	4.6	4.4	2.1	3.1	7.9	6.5
	108	PC	240.2		1.3	3.5	5.2	11.8	1.5	8.0	-3.9	9.5	0.3
	109	PC	250.0		10.1	9.2	7.4	6.1	8.0	6.3	-2.0	5.4	12.7
	110	PC	263.1		6.2	1.3	7.7	8.1	12.8	1.8	3.3	7.9	3.7
	111	PC	226.1		2.0	0.3	6.0	7.3	11.4	-0.1	3.5	7.4	0.6
	112	PC	247.3		11.9	4.1	8.0	6.8	7.2	5.8	2.1	9.7	-1.3
	113#	NP	240.4		5.0	6.3	3.9	-0.1	3.1	-8.5	1.1	1.0	6.1
	114	PC	256.9		-2.2	6.5	3.5	4.4	5.9	0.6	11.2	6.1	5.8
	115	PC	259.5		0.4	3.9	0.4	10.8	9.0	8.2	7.7	4.4	10.7
	116	PC	240.1		5.1	2.6	2.1	8.3	6.7	-0.5	11.9	0.8	10.2
	117	PC	242.3		3.5	7.6	4.7	13.9	4.6	4.4	10.6	5.1	12.9
	118	PC	249.4		5.9	4.2	3.6	5.6	8.6	6.7	-0.2	5.3	11.5
	119	PC	227.7		5.2	7.1	6.3	5.0	2.2	12.9	2.1	4.7	10.9
	120	PC	255.2		11.4	0.5	7.9	4.6	7.4	4.5	4.8	4.1	9.2
	121	PC	255.2		7.9	7.6	9.1	7.0	3.2	11.1	5.5	7.2	9.1
	122	PC	239.1		3.3	9.7	2.4	8.7	6.6	8.5	3.5	5.7	7.6

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weight Gains (grams)

Gestation Day

(continued)

Group Sex	Animal Number	Pregnancy Outcome	Base Weight Day 6	From: To:	15 16	16 17	17 18	18 19	19 20	20 21	Abs Gain 6 21	% Gain 6 21
1f	101	PC	234.9		9.6	6.9	19.9	16.1	17.0	15.2	140.4	59.770
	102	PC	230.9		2.9	12.5	15.7	10.5	17.9	10.0	118.4	51.278
	103	PC	252.2		12.5	10.9	19.3	19.6	20.6	24.4	175.0	69.389
	104	PC	235.0		5.4	14.5	16.5	10.8	17.8	15.2	116.0	49.362
	105	PC	257.6		2.7	11.7	21.1	18.1	13.7	12.2	148.9	57.803
	106	PC	248.6		3.9	12.1	17.0	15.6	22.4	18.3	155.3	62.470
	107	PC	251.5		3.9	8.0	11.1	15.5	5.3	19.1	109.2	43.419
	108	PC	240.2		9.0	10.5	16.2	16.6	8.4	17.5	115.4	48.043
	109	PC	250.0		6.8	22.8	13.6	17.6	17.4	33.1	174.5	69.800
	110	PC	263.1		1.9	17.9	11.2	15.3	7.5	18.1	124.7	47.396
	111	PC	226.1		10.3	4.0	17.1	12.7	9.5	10.2	102.2	45.201
	112	PC	247.3		14.6	15.0	12.9	16.9	15.7	14.5	143.9	58.188
	113#	NP	240.4		-0.4	-6.4	10.3	1.5	3.0	-9.9	16.0	6.656
	114	PC	256.9		14.9	13.2	13.1	16.2	15.5	16.4	131.1	51.032
	115	PC	259.5		12.7	14.2	8.2	19.6	24.4	30.4	165.0	63.584
	116	PC	240.1		7.5	16.4	11.9	17.2	18.4	21.9	140.5	58.517
	117	PC	242.3		15.9	15.1	22.8	18.9	20.5	24.8	185.3	76.475
	118	PC	249.4		11.6	14.5	15.5	18.2	17.8	14.9	143.7	57.618
	119	PC	227.7		13.7	11.6	13.0	12.1	18.1	14.8	139.7	61.353
	120	PC	255.2		14.1	13.0	13.5	15.6	18.2	14.4	143.2	56.113
	121	PC	255.2		12.6	14.1	13.7	11.8	13.2	18.0	151.1	59.208
	122	PC	239.1		6.5	11.8	10.9	13.4	11.4	13.0	123.0	51.443

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weight Gains (grams)													
				Gestation Day									
Group	Animal	Pregnancy	Base	From:	6	7	8	9	10	11	12	13	14
Sex	Number	Outcome	Weight	To:	6	7	8	9	10	11	12	13	14
			Day		6	7	8	9	10	11	12	13	14
			6		7	8	9	10	11	12	13	14	15
2f	201	PC	237.6		7.6	5.3	8.2	7.9	4.4	4.7	7.5	1.4	13.7
	202	PC	237.9		9.2	1.3	5.7	2.6	6.0	5.8	2.3	2.9	7.4
	203	PC	229.1		7.0	6.2	4.4	7.4	4.0	11.2	7.6	2.0	10.3
	204	PC	258.0		8.9	3.8	4.2	9.1	6.5	5.7	10.8	-3.9	13.4
	205	PC	250.8		3.2	6.4	9.8	7.2	5.2	5.4	10.2	5.5	13.9
	206	PC	245.9	-2.8	10.5	6.5	4.4	7.5	10.1	-0.9	5.9	11.7	
	207	PC	259.5	0.4	6.7	14.0	1.1	13.0	7.8	3.1	8.0	3.3	
	208	PC	246.0	3.7	7.1	8.1	10.2	8.0	5.4	2.1	11.3	8.3	
	209	PC	234.2	3.5	6.3	7.9	1.5	5.8	6.5	-0.3	4.5	6.4	
	210	PC	246.7	4.4	6.9	6.7	7.8	8.1	3.3	6.6	4.8	7.1	
	211	PC	255.5	6.1	7.8	10.5	-0.1	11.6	13.6	-1.7	6.4	9.7	
	212	PC	258.7	6.2	4.8	9.1	3.0	7.3	-2.6	14.4	-3.2	6.4	
	213	PC	245.6	8.0	7.1	4.3	4.0	8.5	0.2	9.9	-2.5	12.7	
	214	PC	251.6	3.1	3.8	3.6	7.7	10.2	-3.0	10.8	-0.7	13.1	
	215	PC	243.2	5.7	4.8	8.0	-0.8	10.3	-0.2	5.8	6.7	6.9	
	216	PC	252.5	6.8	4.6	11.0	-0.7	5.3	3.3	11.0	1.1	8.7	
	217	PC	249.5	4.2	10.6	4.5	9.0	5.0	0.5	17.4	-0.4	15.5	
	218	PC	246.9	7.0	2.4	7.6	6.9	5.5	8.7	0.7	3.5	12.8	
	219	PC	252.9	0.3	7.9	6.4	3.8	-1.5	11.0	-0.1	6.1	12.8	
	220	PC	236.0	-1.7	6.4	2.7	2.9	6.1	8.7	-0.6	2.0	11.7	
	221	PC	262.4	9.1	1.8	8.7	3.1	2.0	14.4	-4.7	2.5	19.6	
	222	PC	283.6	9.5	4.2	10.4	4.0	9.0	5.7	8.1	6.5	8.7	

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weight Gains (grams)

Gestation Day

(continued)

Group Sex	Animal Number	Pregnancy Outcome	Base Weight Day 6	From: To:	15 16	16 17	17 18	18 19	19 20	20 21	Abs Gain 6 21	% Gain 6 21
2f	201	PC	237.6		6.1	11.6	24.3	14.8	11.9	24.7	154.1	64.857
	202	PC	237.9		6.7	10.7	15.3	15.3	15.8	13.5	120.5	50.652
	203	PC	229.1		17.7	6.9	14.7	20.9	17.2	20.8	158.3	69.096
	204	PC	258.0		5.7	6.3	22.2	16.1	17.6	23.5	149.9	58.101
	205	PC	250.8		3.8	15.4	23.7	19.6	31.8	25.4	186.5	74.362
	206	PC	245.9		10.7	4.2	23.4	18.0	15.6	20.9	145.7	59.252
	207	PC	259.5		8.4	18.7	17.0	26.2	12.5	19.1	159.3	61.387
	208	PC	246.0		9.4	18.9	14.7	23.6	17.5	22.7	171.0	69.512
	209	PC	234.2		6.6	15.8	7.6	15.7	16.2	21.0	125.0	53.373
	210	PC	246.7		8.1	18.2	19.9	18.6	18.6	16.7	155.8	63.154
	211	PC	255.5		8.6	18.1	10.5	22.4	13.7	23.2	160.4	62.779
	212	PC	258.7		14.1	11.0	14.3	14.4	24.1	13.0	136.3	52.687
	213	PC	245.6		10.2	7.0	8.0	18.6	22.0	13.5	131.5	53.542
	214	PC	251.6		13.6	13.7	12.6	18.9	15.3	27.0	149.7	59.499
	215	PC	243.2		7.5	10.1	15.0	16.8	15.6	19.0	131.2	53.947
	216	PC	252.5		9.6	19.4	16.1	14.3	13.2	14.5	138.2	54.733
	217	PC	249.5		17.6	13.9	14.3	15.7	27.6	18.7	174.1	69.780
	218	PC	246.9		7.3	16.9	15.9	14.1	29.4	13.4	152.1	61.604
	219	PC	252.9		7.1	21.0	9.9	17.1	19.5	20.6	141.9	56.109
	220	PC	236.0		3.7	17.5	17.3	7.9	12.3	30.9	127.8	54.153
	221	PC	262.4		1.4	13.3	22.8	10.2	26.5	20.0	150.7	57.431
	222	PC	283.6		10.7	23.0	14.9	19.6	22.3	35.3	191.9	67.666

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weight Gains (grams)													
				Gestation Day									
Group	Animal	Pregnancy	Base	From:	6	7	8	9	10	11	12	13	14
Sex	Number	Outcome	Weight	To:	6	8	9	10	11	12	13	14	15
3f	301	PC	239.6		5.5	3.4	8.8	9.2	10.3	2.8	5.2	1.8	11.8
	302	PC	264.0		10.7	2.0	6.7	12.5	5.2	9.2	4.7	11.0	8.0
	303	PC	232.2		5.1	8.3	3.7	9.6	1.9	3.9	-16.0	20.9	8.0
	304	PC	249.2		5.0	11.2	0.8	9.5	2.4	4.6	-0.7	6.9	22.6
	305	PC	243.6		4.0	7.7	0.1	7.6	4.6	8.1	5.2	0.6	14.8
	306	PC	248.3		7.9	4.4	5.9	11.3	10.2	4.0	5.2	-2.2	7.1
	307	PC	242.4		5.0	4.0	7.1	10.3	9.5	6.9	1.3	12.7	4.6
	308	PC	242.1		4.1	3.6	17.3	3.7	9.8	7.1	7.1	6.5	6.5
	309	PC	260.2		5.8	0.2	6.6	9.3	10.7	11.8	-0.1	4.0	13.9
	310	PC	251.5		2.4	3.0	6.2	8.6	3.0	3.7	7.3	4.3	7.8
	311	PC	235.5		-0.5	0.4	11.4	4.9	2.4	8.0	3.9	4.3	7.3
	312	PC	252.1		5.0	1.6	7.8	6.8	8.4	4.1	7.4	3.1	15.5
	313#	NP	255.3		0.1	8.2	3.4	10.2	1.7	1.5	-6.9	0.8	3.1
	314	PC	252.3		3.2	8.3	5.5	0.3	6.7	4.6	11.1	2.3	8.9
	315	PC	243.1		2.6	4.7	10.0	3.1	6.7	3.2	11.5	1.7	13.9
	316	PC	249.5		2.2	6.8	-0.3	6.7	5.8	7.1	4.6	6.5	2.7
	317	PC	252.5		3.7	10.1	4.5	4.2	10.9	5.8	11.0	-2.2	10.8
	318	PC	233.2		8.3	5.0	1.5	5.7	9.7	8.7	0.2	10.1	9.4
	319	PC	224.8		8.9	4.3	7.7	6.2	7.8	7.4	6.6	5.2	6.1
	320	PC	250.0		11.8	2.1	7.5	3.9	6.2	7.4	-1.1	2.6	7.8
	321	PC	251.1		1.0	5.0	3.1	7.1	10.4	1.7	5.3	9.4	5.6
	322	PC	269.7		9.1	0.3	10.5	2.6	5.4	8.5	4.6	10.0	16.9

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weight Gains (grams)

Gestation Day

(continued)

Group Sex	Animal Number	Pregnancy Outcome	Base Weight Day 6	From: To:	15 16	16 17	17 18	18 19	19 20	20 21	Abs Gain 6 21	% Gain 6 21
3f	301	PC	239.6		4.9	7.9	21.0	9.2	20.7	14.6	137.1	57.220
	302	PC	264.0		12.7	14.4	19.4	14.8	30.7	8.4	170.4	64.545
	303	PC	232.2		10.4	6.9	10.1	18.1	13.4	27.8	132.1	56.891
	304	PC	249.2		4.9	9.7	14.1	19.1	25.4	15.8	151.3	60.714
	305	PC	243.6		5.5	10.0	14.2	9.4	20.8	13.0	125.6	51.560
	306	PC	248.3		10.1	16.8	18.5	11.8	23.2	33.1	167.3	67.378
	307	PC	242.4		9.8	11.1	26.7	14.5	12.1	27.2	162.8	67.162
	308	PC	242.1		7.9	13.3	16.4	18.3	11.3	27.6	160.5	66.295
	309	PC	260.2		8.2	16.7	15.7	8.9	20.2	23.8	155.7	59.839
	310	PC	251.5		10.9	12.5	15.9	13.6	15.8	27.7	142.7	56.740
	311	PC	235.5		9.7	7.2	11.6	18.2	15.0	28.3	132.1	56.093
	312	PC	252.1		7.2	15.0	11.3	18.8	19.3	24.4	155.7	61.761
	313#	NP	255.3		-1.9	0.4	9.7	5.6	-2.7	-2.8	30.4	11.908
	314	PC	252.3		19.4	17.9	19.3	14.2	14.3	19.8	155.8	61.752
	315	PC	243.1		15.0	14.8	19.9	12.7	17.5	31.4	168.7	69.395
	316	PC	249.5		13.8	11.1	15.7	12.1	17.2	16.6	128.6	51.543
	317	PC	252.5		11.2	10.7	24.5	14.6	17.5	29.0	166.3	65.861
	318	PC	233.2		11.4	13.0	14.0	19.0	15.3	18.4	149.7	64.194
	319	PC	224.8		15.8	7.4	11.8	18.9	21.1	10.3	145.5	64.724
	320	PC	250.0		12.5	13.1	22.9	15.0	16.2	25.4	153.3	61.320
	321	PC	251.1		9.3	10.1	17.6	13.0	14.1	18.9	131.6	52.409
	322	PC	269.7		9.3	12.8	17.4	17.4	23.7	11.3	159.8	59.251

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weight Gains (grams)													
				Gestation Day									
Group	Animal	Pregnancy	Base	From:	6	7	8	9	10	11	12	13	14
Sex	Number	Outcome	Weight	To:	7	8	9	10	11	12	13	14	15
			Day										
			6										
4f	401	PC	233.5		5.4	6.0	7.6	8.1	8.3	7.8	0.6	4.9	8.5
	402	PC	248.3		7.3	4.9	6.9	8.9	3.9	4.0	6.9	1.3	8.2
	403	PC	249.9		8.5	5.0	7.8	10.5	8.6	7.4	1.9	6.5	10.1
	404	PC	240.1		8.1	5.4	6.0	5.1	9.7	7.9	2.3	-4.3	11.8
	405	PC	253.0		3.7	7.9	3.5	8.9	6.3	-2.2	-2.3	2.8	18.7
	406	PC	244.1		4.2	7.5	0.2	13.3	0.1	4.3	4.9	7.3	2.7
	407	PC	242.4		2.8	3.0	11.3	6.1	8.2	7.4	8.6	4.1	3.2
	408	PC	245.6		2.5	3.1	11.3	3.6	5.7	7.0	1.6	6.6	2.9
	409	PC	255.1		4.4	0.8	10.7	4.1	14.7	3.7	4.9	8.3	7.7
	410	PC	245.0		2.3	4.2	5.1	9.2	6.8	7.7	0.4	6.5	4.1
	411	PC	231.8		5.6	1.8	11.0	4.8	7.1	3.9	2.7	6.1	4.6
	412	PC	251.8		5.8	-0.6	8.0	8.4	5.3	5.8	4.8	4.7	8.0
	413	PC	236.4		-0.7	6.9	2.2	8.5	8.3	9.6	-3.8	8.6	8.4
	414	PC	259.2		3.6	11.4	6.8	8.7	6.3	9.3	9.4	5.2	13.1
	415	PC	237.5		-2.0	3.8	8.3	4.4	8.1	5.5	6.6	6.9	10.0
	416	PC	248.1		5.1	2.1	5.5	4.1	9.3	2.4	8.0	1.1	1.1
	417	PC	251.0		-0.5	12.0	7.6	6.5	8.4	9.7	6.2	7.5	12.2
	418	PC	215.6		8.0	5.5	4.0	7.2	2.7	8.7	0.0	5.2	9.9
	419	PC	272.6		6.0	7.1	11.8	8.7	7.7	3.9	-0.6	12.9	5.8
	420	PC	255.5		5.6	3.3	12.1	5.0	7.2	6.9	2.8	6.6	12.4
	421	PC	255.0		2.7	6.5	-12.3	9.1	5.6	5.1	0.4	12.2	4.8
	422	PC	237.6		0.8	5.7	3.2	9.8	-14.2	10.2	7.1	6.8	8.5

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Body Weight Gains (grams)

Gestation Day

(continued)

Group Sex	Animal Number	Pregnancy Outcome	Base Weight Day 6	From: To:	15 16	16 17	17 18	18 19	19 20	20 21	Abs Gain 6 21	% Gain 6 21
4f	401	PC	233.5		7.0	7.1	15.7	15.4	7.7	20.4	130.5	55.889
	402	PC	248.3		3.1	10.2	11.4	20.0	13.4	17.2	127.6	51.389
	403	PC	249.9		6.6	14.0	20.1	11.2	16.4	18.7	153.3	61.345
	404	PC	240.1		9.7	17.6	22.1	22.4	5.5	22.7	152.0	63.307
	405	PC	253.0		12.6	13.0	18.8	23.0	14.1	22.2	151.0	59.684
	406	PC	244.1		10.2	12.2	8.0	14.7	17.8	18.0	125.4	51.372
	407	PC	242.4		12.4	15.2	15.7	18.0	13.7	22.5	152.2	62.789
	408	PC	245.6		6.0	13.2	9.9	10.4	13.6	18.8	116.2	47.313
	409	PC	255.1		6.4	25.4	17.6	13.0	22.2	30.8	174.7	68.483
	410	PC	245.0		7.5	13.1	11.3	12.6	15.7	18.6	125.1	51.061
	411	PC	231.8		4.8	10.9	11.6	12.6	7.5	16.8	111.8	48.231
	412	PC	251.8		12.7	11.6	12.6	16.1	14.1	25.6	142.9	56.751
	413	PC	236.4		8.9	11.8	11.7	17.8	12.9	22.1	133.2	56.345
	414	PC	259.2		7.8	12.7	14.6	19.1	9.6	27.7	165.3	63.773
	415	PC	237.5		14.4	7.3	10.4	17.6	20.4	17.3	139.0	58.526
	416	PC	248.1		9.1	11.3	9.0	3.5	12.3	19.2	103.1	41.556
	417	PC	251.0		3.5	12.3	19.3	14.1	16.3	18.3	153.4	61.116
	418	PC	215.6		8.5	12.6	6.4	9.3	17.5	12.0	117.5	54.499
	419	PC	272.6		9.8	13.9	11.7	19.2	11.4	4.6	133.9	49.120
	420	PC	255.5		4.8	10.2	16.5	18.1	13.1	18.6	143.2	56.047
	421	PC	255.0		9.7	3.0	15.1	8.7	17.4	10.3	98.3	38.549
	422	PC	237.6		12.2	10.3	15.2	8.4	22.2	16.1	122.3	51.473

= Animal not pregnant and has been excluded from statistics

PC = Pregnant Caesarian, PL = Pregnant Littered, NP = Not Pregnant, ND = Not Determined

Abs Gain = absolute bodyweight gain between base period and end of the analysis period

% Gain = percentage bodyweight gain between base period and end of the analysis period

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Appendix F
Individual Maternal Net Body Weight And Body Weight Change

Individual Maternal Net Body Weight and Body Weight Change

Group: 1 0 mg/kg/day

Dam Number	Pregnancy Status	Pregnancy Type	Gravid Uterus g	Terminal Body Wt g	Net BW g	BDWT Change From Day 6 g	NetBDWT Change From Day 6 g
101	P	Preg	93.55	375.3	281.75	140.4	46.85
102	P	Preg	99.12	349.3	250.18	118.4	19.28
103	P	Preg	.a	427.2	.a	175.0	.a
104	P	Preg	87.69	351.0	263.31	116.0	28.31
105	P	Preg	86.74	406.5	319.76	148.9	62.16
106	P	Preg	97.00	403.9	306.90	155.3	58.30
107	P	Preg	64.49	360.7	296.21	109.2	44.71
108	P	Preg	80.08	355.6	275.52	115.4	35.32
109	P	Preg	99.16	424.5	325.34	174.5	75.34
110	P	Preg	78.91	387.8	308.89	124.7	45.79
111	P	Preg	66.20	328.3	262.10	102.2	36.00
112	P	Preg	89.77	391.2	301.43	143.9	54.13
113	NP	NP	.	256.4	.	16.0	.
114	P	Preg	89.29	388.0	298.71	131.1	41.81
115	P	Preg	103.80	424.5	320.70	165.0	61.20
116	P	Preg	95.36	380.6	285.24	140.5	45.14
117	P	Preg	111.24	427.6	316.36	185.3	74.06
118	P	Preg	106.11	393.1	286.99	143.7	37.59
119	P	Preg	81.38	367.4	286.02	139.7	58.32
120	P	Preg	84.53	398.4	313.87	143.2	58.67
121	P	Preg	83.25	406.3	323.05	151.1	67.85
122	P	Preg	89.67	362.1	272.43	123.0	33.33

. = No data.

a = Gravid uterus not collected in error. Deviation has been drafted.

= Animal has been excluded from means and statistics; E = Excluded by user

Pregnancy Status Codes: P = Pregnant; NP = Not Pregnant

Pregnancy Type Codes: Preg = Pregnant; NP = Not Pregnant

Individual Maternal Net Body Weight and Body Weight Change

Group: 2 100 mg/kg/day

Dam Number	Pregnancy Status	Pregnancy Type	Gravid Uterus g	Terminal Body Wt g	Net BW g	BDWT Change From Day 6 g	NetBDWT Change From Day 6 g
201	P	Preg	96.25	391.7	295.45	154.1	57.85
202	P	Preg	89.53	358.4	268.87	120.5	30.97
203	P	Preg	97.87	387.4	289.53	158.3	60.43
204	P	Preg	99.62	407.9	308.28	149.9	50.28
205	P	Preg	132.82	437.3	304.48	186.5	53.68
206	P	Preg	114.03	391.6	277.57	145.7	31.67
207	P	Preg	106.96	418.8	311.84	159.3	52.34
208	P	Preg	110.65	417.0	306.35	171.0	60.35
209	P	Preg	87.28	359.2	271.92	125.0	37.72
210	P	Preg	114.26	402.5	288.24	155.8	41.54
211	P	Preg	80.89	415.9	335.01	160.4	79.51
212	P	Preg	92.18	395.0	302.82	136.3	44.12
213	P	Preg	92.02	377.1	285.08	131.5	39.48
214	P	Preg	95.41	401.3	305.89	149.7	54.29
215	P	Preg	91.64	374.4	282.76	131.2	39.56
216	P	Preg	94.97	390.7	295.73	138.2	43.23
217	P	Preg	108.92	423.6	314.68	174.1	65.18
218	P	Preg	103.27	399.0	295.73	152.1	48.83
219	P	Preg	93.32	394.8	301.48	141.9	48.58
220	P	Preg	87.77	363.8	276.03	127.8	40.03
221	P	Preg	95.24	413.1	317.86	150.7	55.46
222	P	Preg	112.87	475.5	362.63	191.9	79.03

. = No data.

= Animal has been excluded from means and statistics; E = Excluded by user

Pregnancy Status Codes: P = Pregnant; NP = Not Pregnant

Pregnancy Type Codes: Preg = Pregnant; NP = Not Pregnant

Individual Maternal Net Body Weight and Body Weight Change

Group: 3 300 mg/kg/day

Dam Number	Pregnancy Status	Pregnancy Type	Gravid Uterus g	Terminal Body Wt g	Net BW g	BDWT Change From Day 6 g	NetBDWT Change From Day 6 g
301	P	Preg	88.10	376.7	288.60	137.1	49.00
302	P	Preg	119.17	434.4	315.23	170.4	51.23
303	P	Preg	86.28	364.3	278.02	132.1	45.82
304	P	Preg	98.74	400.5	301.76	151.3	52.56
305	P	Preg	92.41	369.2	276.79	125.6	33.19
306	P	Preg	110.96	415.6	304.64	167.3	56.34
307	P	Preg	93.24	405.2	311.96	162.8	69.56
308	P	Preg	93.04	402.6	309.56	160.5	67.46
309	P	Preg	102.31	415.9	313.59	155.7	53.39
310	P	Preg	109.83	394.2	284.37	142.7	32.87
311	P	Preg	87.00	367.6	280.60	132.1	45.10
312	P	Preg	101.25	407.8	306.55	155.7	54.45
313	NP	NP	.	285.7	.	30.4	.
314	P	Preg	119.63	408.1	288.47	155.8	36.17
315	P	Preg	102.52	411.8	309.28	168.7	66.18
316	P	Preg	88.65	378.1	289.45	128.6	39.95
317	P	Preg	103.91	418.8	314.89	166.3	62.39
318	P	Preg	94.16	382.9	288.74	149.7	55.54
319	P	Preg	85.48	370.3	284.82	145.5	60.02
320	P	Preg	102.39	403.3	300.91	153.3	50.91
321	P	Preg	79.35	382.7	303.35	131.6	52.25
322	P	Preg	119.89	429.5	309.61	159.8	39.91

. = No data.

= Animal has been excluded from means and statistics; E = Excluded by user
Pregnancy Status Codes: P = Pregnant; NP = Not Pregnant
Pregnancy Type Codes: Preg = Pregnant; NP = Not Pregnant

Individual Maternal Net Body Weight and Body Weight Change

Group: 4 900 mg/kg/day

Dam Number	Pregnancy Status	Pregnancy Type	Gravid Uterus g	Terminal Body Wt g	Net BW g	BDWT Change From Day 6 g	NetBDWT Change From Day 6 g
401	P	Preg	66.22	364.0	297.78	130.5	64.28
402	P	Preg	86.62	375.9	289.28	127.6	40.98
403	P	Preg	111.05	403.2	292.15	153.3	42.25
404	P	Preg	104.82	392.1	287.28	152.0	47.18
405	P	Preg	109.58	404.0	294.42	151.0	41.42
406	P	Preg	77.58	369.5	291.92	125.4	47.82
407	P	Preg	99.60	394.6	295.00	152.2	52.60
408	P	Preg	75.39	361.8	286.41	116.2	40.81
409	P	Preg	110.20	429.8	319.60	174.7	64.50
410	P	Preg	85.44	370.1	284.66	125.1	39.66
411	P	Preg	66.43	343.6	277.17	111.8	45.37
412	P	Preg	76.11	394.7	318.59	142.9	66.79
413	P	Preg	88.21	369.6	281.39	133.2	44.99
414	P	Preg	83.78	424.5	340.72	165.3	81.52
415	P	Preg	97.92	376.5	278.58	139.0	41.08
416	P	Preg	56.46	351.2	294.74	103.1	46.64
417	P	Preg	98.01	404.4	306.39	153.4	55.39
418	P	Preg	73.39	333.1	259.71	117.5	44.11
419	P	Preg	81.42	406.5	325.08	133.9	52.48
420	P	Preg	81.88	398.7	316.82	143.2	61.32
421	P	Preg	63.46	353.3	289.84	98.3	34.84
422	P	Preg	89.25	359.9	270.65	122.3	33.05

. = No data.

= Animal has been excluded from means and statistics; E = Excluded by user

Pregnancy Status Codes: P = Pregnant; NP = Not Pregnant

Pregnancy Type Codes: Preg = Pregnant; NP = Not Pregnant

Appendix G
Individual Maternal Food Consumption

Individual Maternal Food Consumption (grams/day)											
Gestation Day											
Group	Animal	From:	6	8	10	12	14	16	18	20	Total
Sex	Number	To:	8	10	12	14	16	18	20	21	6 21
1f	101		26.60	22.25	26.15	27.20	27.00	28.95	28.95	28.70	402.900
	102		17.65	16.75	19.20	18.65	21.55	21.60	19.85	19.60	290.100
	103		22.40	23.50	27.25	26.95	27.25	27.95	29.85	28.40	398.700
	104		19.15	16.70	22.45	21.10	22.20	20.75	23.10	21.00	311.900
	105		26.55	26.85	28.70	26.30	29.60	29.15	31.30	28.00	424.900
	106		25.75	23.55	26.75	27.00	27.55	27.15	28.75	24.00	397.000
	107		21.65	22.00	20.45	23.70	25.15	26.00	25.15	26.60	354.800
	108		19.30	21.65	21.05	20.75	20.20	21.80	21.55	21.20	313.800
	109		23.25	23.80	24.70	22.00	25.65	27.00	26.20	31.60	376.800
	110		21.70	22.45	26.90	23.70	24.45	24.35	24.10	21.50	356.800
	111		14.60	17.20	19.75	19.80	21.55	23.25	23.05	20.20	298.600
	112		22.95	26.45	25.65	26.35	26.20	27.00	28.45	26.40	392.500
	113#		21.05	22.65	22.65	15.00	21.45	17.60	21.05	13.00	295.900
	114		18.55	22.35	22.10	23.50	25.30	26.75	26.10	23.80	353.100
	115		19.20	23.55	27.80	27.90	26.60	31.05	25.30	32.80	395.600
	116		17.30	20.35	22.05	21.00	22.50	24.55	24.30	25.60	329.700
	117		17.95	23.90	23.75	24.85	24.35	30.00	29.25	30.50	378.600
	118		22.85	24.00	27.05	26.25	27.60	28.20	31.55	33.80	408.800
	119		20.25	23.10	21.40	23.20	24.75	27.75	27.15	28.10	363.300
	120		20.85	22.85	23.50	26.00	23.85	25.35	26.85	24.80	363.300
	121		20.95	23.30	24.10	24.80	27.05	25.90	26.05	31.20	375.500
	122		21.45	23.25	24.35	24.05	26.25	23.65	22.70	26.00	357.400

= Not Pregnant. Data has been excluded from statistical analysis.

Food Consumption Units are g/animal/day

Total = Total consumption for the whole period (g/animal)

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Food Consumption (grams/day)											
Gestation Day											
Group	Animal	From:	6	8	10	12	14	16	18	20	Total
Sex	Number	To:	8	10	12	14	16	18	20	21	6 21
2f	201		21.80	22.35	25.60	25.55	25.95	29.10	28.10	32.60	389.500
	202		20.70	18.15	22.75	21.10	21.55	23.80	23.85	21.00	324.800
	203		20.45	19.45	23.05	24.55	27.95	27.30	28.90	23.80	367.100
	204		20.40	20.35	22.65	24.35	26.55	23.05	23.95	27.90	350.500
	205		23.00	24.85	25.05	26.25	26.80	28.45	32.15	26.50	399.600
	206		20.95	20.65	23.45	21.90	26.15	22.60	26.45	28.70	353.000
	207		19.05	24.90	27.65	25.05	25.95	28.35	28.35	26.00	384.600
	208		20.45	22.30	23.90	21.70	24.95	25.35	25.40	29.30	357.400
	209		17.10	18.00	19.30	21.35	20.70	23.75	21.85	24.70	308.800
	210		21.15	21.80	25.25	24.50	27.20	29.85	27.15	29.60	383.400
	211		23.55	23.75	26.85	27.85	29.15	31.00	29.80	33.60	417.500
	212		20.75	22.25	23.70	20.95	24.50	25.30	27.70	22.60	352.900
	213		18.55	19.05	15.05	23.50	23.00	22.45	21.15	22.30	307.800
	214		20.45	25.85	24.75	25.10	25.35	27.80	29.10	29.20	386.000
	215		19.65	22.00	23.65	21.90	24.05	24.05	24.20	28.40	347.400
	216		22.55	25.95	28.15	27.05	25.70	28.50	25.65	24.20	391.300
	217		25.20	29.65	30.45	31.70	32.25	33.20	32.40	26.90	456.600
	218		22.50	24.20	24.05	23.15	27.55	28.00	28.60	25.20	381.300
	219		21.00	21.95	20.15	23.30	22.95	26.80	25.15	27.00	349.600
	220		19.20	20.10	20.05	20.35	20.65	25.35	21.95	30.80	326.100
	221		23.15	25.55	25.20	23.20	25.20	29.50	29.80	32.60	395.800
	222		25.15	28.60	28.20	32.80	30.30	32.20	32.00	38.90	457.400

Food Consumption Units are g/animal/day

Total = Total consumption for the whole period (g/animal)

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Food Consumption (grams/day)											
Gestation Day											
Group	Animal	From:	6	8	10	12	14	16	18	20	Total
Sex	Number	To:	8	10	12	14	16	18	20	21	
											6
											21
3f	301		23.90	21.40	27.45	24.90	27.15	27.15	28.15	23.50	383.700
	302		26.85	25.70	31.60	30.65	31.15	32.60	33.00	20.40	443.500
	303		20.90	17.15	22.40	20.90	24.30	23.15	25.30	27.40	335.600
	304		23.35	21.15	26.00	26.85	31.00	28.45	33.30	30.70	410.900
	305		21.55	18.80	24.05	22.10	24.65	23.85	24.30	22.30	340.900
	306		23.60	22.30	26.25	22.95	26.45	26.95	28.10	31.70	384.900
	307		20.85	23.10	25.25	25.95	27.40	29.20	28.05	30.90	390.500
	308		22.00	25.00	27.50	24.05	25.75	22.75	25.25	26.80	371.400
	309		23.90	26.40	30.25	31.75	30.60	29.40	32.20	35.10	444.100
	310		19.45	20.95	22.40	21.00	24.25	23.55	22.20	26.60	334.200
	311		16.60	20.30	23.40	21.55	20.40	23.05	22.05	29.00	323.700
	312		22.45	21.70	24.05	23.45	27.15	26.55	26.35	27.10	370.500
	313#		23.80	27.95	27.05	21.30	24.10	22.10	25.50	17.50	361.100
	314		20.45	21.45	23.50	24.75	26.95	27.60	27.55	28.00	372.500
	315		19.95	24.25	27.70	26.75	29.50	34.80	31.50	31.20	420.100
	316		18.90	21.85	25.10	23.65	24.85	27.70	26.05	28.20	364.400
	317		20.85	22.60	27.20	26.00	26.50	28.40	29.20	26.90	388.400
	318		21.35	24.90	26.30	24.30	25.10	27.70	28.80	28.70	385.600
	319		21.15	23.85	25.55	28.60	26.45	28.65	31.30	29.40	400.500
	320		22.85	24.10	25.15	24.80	23.35	26.00	25.55	26.90	370.500
	321		20.65	24.40	20.95	24.85	23.10	27.05	27.50	28.30	365.300
	322		21.10	25.35	21.95	26.50	28.65	29.00	27.20	24.60	384.100

= Not Pregnant. Data has been excluded from statistical analysis.

Food Consumption Units are g/animal/day

Total = Total consumption for the whole period (g/animal)

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Food Consumption (grams/day)											
Gestation Day											
Group	Animal	From:	6	8	10	12	14	16	18	20	Total
Sex	Number	To:	8	10	12	14	16	18	20	21	6 21
4f	401		20.00	21.00	25.70	23.50	22.95	25.30	25.85	24.50	353.100
	402		23.40	22.30	23.30	24.55	24.50	25.30	26.15	21.80	360.800
	403		23.65	25.65	27.40	26.95	24.65	28.85	25.50	25.00	390.300
	404		22.90	24.05	27.80	21.20	25.30	29.65	25.75	26.70	380.000
	405		22.10	21.75	22.70	16.65	27.35	28.75	28.00	27.00	361.600
	406		22.10	20.25	21.70	23.15	22.45	24.90	25.30	21.70	341.400
	407		17.50	22.65	24.80	24.30	25.55	25.95	26.55	26.30	360.900
	408		17.60	21.20	21.90	22.65	24.35	23.30	24.35	22.20	332.900
	409		21.25	22.15	26.30	25.70	29.55	31.80	30.75	33.10	408.100
	410		19.35	18.75	23.10	24.15	24.25	23.75	23.65	21.50	335.500
	411		20.60	23.70	26.95	25.35	21.80	23.95	24.15	25.90	358.900
	412		19.60	23.25	26.70	25.60	27.45	28.45	31.15	31.30	395.700
	413		19.10	21.05	25.00	20.85	23.35	22.40	20.60	24.20	328.900
	414		23.95	27.75	30.45	31.00	31.20	32.35	30.90	29.30	444.500
	415		16.25	22.90	25.75	23.30	23.45	23.50	23.55	20.90	338.300
	416		19.05	19.45	22.95	22.05	21.90	24.80	23.80	24.20	332.200
	417		21.65	26.90	28.05	29.10	29.15	29.60	30.90	24.40	415.100
	418		19.05	21.00	22.70	22.25	23.15	22.25	23.40	22.00	329.600
	419		26.50	33.10	26.75	30.00	27.95	32.80	29.50	28.80	442.000
	420		20.80	26.50	24.95	28.10	26.60	29.05	27.75	28.70	396.200
	421		21.40	16.60	21.90	22.70	22.60	20.85	23.20	20.90	319.400
	422		17.00	22.15	14.20	22.10	23.40	26.60	26.80	24.20	328.700

Food Consumption Units are g/animal/day

Total = Total consumption for the whole period (g/animal)

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Appendix H
Individual Maternal Clinical Observations

Individual Maternal Clinical Observations

Group	Animal	Sex	Number	Clinical Sign	Site	Gestation Day															
						6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
						A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
1f	101			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	102			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	103			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	104			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	105			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Hair loss	Abdomen	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	106			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	107			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	108			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	109			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	110			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	111			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	112			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	113			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	114			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal			14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
Sex	Number	Clinical Sign	Site	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
1f	101	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	102	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	103	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	104	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	105	No Abnormalities Detected		X	X	X	X	X	X	X	X	.	.	.	.	.	.	.
		Hair loss	Abdomen	.	.	.	.	.	.	.	.	X	X	X	X	X	X	.
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	106	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	107	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	108	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	109	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	110	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	111	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	112	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	113	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	114	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

					Gestation Day															
Group	Animal				6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
Sex	Number	Clinical Sign	Site		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
1f	115	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	116	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	117	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	118	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	119	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	120	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	121	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	122	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal		14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
Sex	Number	Clinical Sign	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
1f	115	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	116	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	117	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	118	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	119	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	120	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	121	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	122	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Group	Animal Sex Number	Clinical Sign	Site	Gestation Day															
				6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
				A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
2f	201	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	202	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	203	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	204	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	205	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	206	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	207	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	208	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	209	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	210	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	211	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	212	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	213	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	214	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal		14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
Sex	Number	Clinical Sign	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
2f	201	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	202	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	203	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	204	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	205	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	206	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	207	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	208	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	209	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	210	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	211	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	212	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	213	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	214	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Group	Animal Sex Number	Clinical Sign	Site	Gestation Day															
				6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
				A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
2f	215	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	216	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	217	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	218	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	219	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	220	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	221	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	222	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal		14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
Sex	Number	Clinical Sign	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
2f	215	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	216	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	217	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	218	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	219	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	220	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	221	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	222	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Group	Animal	Sex	Number	Clinical Sign	Site	Gestation Day															
						6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
						A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
3f	301			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	302			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	303			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	304			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	305			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Hair loss	Chest	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				Hair loss	Side right	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	306			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	307			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	308			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	309			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	310			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	311			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	312			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	313			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal			14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
Sex	Number	Clinical Sign	Site	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
3f	301	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	302	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	303	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	304	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	305	No Abnormalities Detected		X	X	X	X	X	X	X	X	.	.	.	.	.	.	.
		Hair loss	Chest	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X
		Hair loss	Side right	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	306	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	307	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	308	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	309	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	310	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	311	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	312	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	313	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

					Gestation Day															
Group	Animal				6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
Sex	Number	Clinical	Sign	Site	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
3f	314	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	315	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	316	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	317	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	318	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	319	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	320	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	321	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	322	No Abnormalities Detected			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal	Sex	Number	Clinical Sign	Site	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
						A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
3f	314			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	315			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	316			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	317			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	318			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	319			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	320			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	321			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	322			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Group	Animal	Sex	Number	Clinical Sign	Site	Gestation Day															
						6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
						A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
4f	401			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	402			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	403			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	404			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	405			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	406			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	407			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	408			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	409			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	410			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	411			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	412			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	413			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	414			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal		14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
Sex	Number	Clinical Sign	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
4f	401	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	402	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	403	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	404	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	405	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	406	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	407	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	408	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	409	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	410	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	411	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	412	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	413	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	414	No Abnormalities Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Group	Animal	Sex	Number	Clinical Sign	Site	Gestation Day															
						6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
						A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
4f	415			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	416			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Discharge - red	Vaginal opening	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	417			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	418			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	419			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	420			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	421			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	422			No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Individual Maternal Clinical Observations

Gestation Day

(continued)

Group	Animal			14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
Sex	Number	Clinical Sign	Site	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
4f	415	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	416	No Abnormalities Detected		.	.	X	X	X	X	X	X	X	X	X	X	X	X	X
		Discharge - red	Vaginal opening	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	417	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	418	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	419	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	420	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	421	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
	422	No Abnormalities Detected		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Scheduled sacrifice		.	.	.	.	.	.	.	.	.	.	.	.	.	.	X

X = Present

Nominal Dose: Group 1 - 0 mg/kg/day Group 2 - 100 mg/kg/day Group 3 - 300 mg/kg/day Group 4 - 900 mg/kg/day

Appendix I
Individual Maternal Gross Observations

Individual Maternal Gross Observations

Group: 1 Dose: 0 mg/kg/day Sex: Female

Animal Ref.	Mode Of Death	Death Day (Week)	Observation(s)
101	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
102	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
103	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
104	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
105	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
106	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
107	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
108	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
109	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
110	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
111	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
112	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
113	SACRIFICE BY DESIGN	21 (3)	UTERUS: uterus placed in ammonium sulfide, no implantation sites Any remaining protocol required tissues, which have been examined, have no visible lesions
114	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
115	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
116	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
117	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
118	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
119	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions

Individual Maternal Gross Observations

Group: 1 Dose: 0 mg/kg/day Sex: Female

Animal Ref.	Mode Of Death	Death		Observation(s)
		Day	(Week)	
120	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
121	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
122	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions

Individual Maternal Gross Observations

Group: 2 Dose: 100 mg/kg/day Sex: Female

Animal Ref.	Mode Of Death	Death Day (Week)	Observation(s)
201	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
202	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
203	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
204	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
205	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
206	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
207	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
208	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
209	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
210	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
211	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
212	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
213	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
214	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
215	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
216	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
217	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
218	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
219	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
220	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
221	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
222	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions

Individual Maternal Gross Observations

Group: 3 Dose: 300 mg/kg/day Sex: Female

Animal Ref.	Mode Of Death	Death		Observation(s)
		Day	(Week)	
301	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
302	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
303	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
304	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
305	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
306	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
307	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
308	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
309	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
310	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
311	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
312	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
313	SACRIFICE BY DESIGN	21	(3)	UTERUS: implant sites not visible - stained with ammonium sulfide - rat not pregnant Any remaining protocol required tissues, which have been examined, have no visible lesions
314	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
315	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
316	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
317	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
318	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
319	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
320	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions

Individual Maternal Gross Observations

Group: 3 Dose: 300 mg/kg/day Sex: Female

Animal Ref.	Mode Of Death	Death Day (Week)	Observation(s)
321	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
322	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions

Individual Maternal Gross Observations

Group: 4 Dose: 900 mg/kg/day Sex: Female

Animal Ref.	Mode Of Death	Death Day (Week)	Observation(s)
401	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
402	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
403	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
404	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
405	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
406	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
407	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
408	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
409	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
410	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
411	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
412	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
413	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
414	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
415	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
416	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
417	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
418	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
419	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions
420	SACRIFICE BY DESIGN	21 (3)	No Visible Lesions

Individual Maternal Gross Observations

Group: 4 Dose: 900 mg/kg/day Sex: Female

Animal		Death		Observation(s)
Ref.	Mode Of Death	Day	(Week)	
421	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions
422	SACRIFICE BY DESIGN	21	(3)	No Visible Lesions

Appendix J
Individual Reproductive Data

INDIVIDUAL REPRODUCTIVE DATA

EXPLANATORY NOTES

NOTES:

A column showing late resorptions appears in this appendix only if at least one late resorption occurred in the study.

Individual Reproductive Data

Group: 1 0 mg/kg/day

Dam Number	Number of Corpora Lutea		Number of Implantations		% Pre- implantation Loss	- Number of Intra-Uterine Deaths - Early Resorption		Total Deaths		% Post- implantation Loss	Number of live fetuses		Live Fetuses as % of implantations
	Left	Right	Left	Right		L	R	L	R		Left	Right	
101	5	8	5	8	0.0	0	0	0	0	0.0	5	8	100.0
102	7	8	7	7	6.7	0	0	0	0	0.0	7	7	100.0
103	4	9	4	9	0.0	0	0	0	0	0.0	4	9	100.0
104	6	7	5	7	7.7	0	0	0	0	0.0	5	7	100.0
105	5	7	5	6	8.3	0	0	0	0	0.0	5	6	100.0
106	5	8	5	8	0.0	0	0	0	0	0.0	5	8	100.0
107	7	6	4	4	38.5	0	0	0	0	0.0	4	4	100.0
108	5	6	5	6	0.0	0	0	0	0	0.0	5	6	100.0
109	3	9	3	9	0.0	0	0	0	0	0.0	3	9	100.0
110	8	5	8	2	23.1	0	0	0	0	0.0	8	2	100.0
111	7	8	4	5	40.0	0	0	0	0	0.0	4	5	100.0
112	7	4	7	4	0.0	0	0	0	0	0.0	7	4	100.0
113 (NP)													
114	3	9	3	9	0.0	0	0	0	0	0.0	3	9	100.0
115	8	5	8	5	0.0	0	0	0	0	0.0	8	5	100.0
116	8	9	6	8	17.6	0	1	0	1	7.1	6	7	92.9
117	8	6	8	6	0.0	0	0	0	0	0.0	8	6	100.0
118	6	8	6	8	0.0	0	0	0	0	0.0	6	8	100.0
119	4	8	4	7	8.3	0	0	0	0	0.0	4	7	100.0
120	5	6	5	6	0.0	0	0	0	0	0.0	5	6	100.0
121	6	6	5	6	8.3	0	0	0	0	0.0	5	6	100.0
122	7	5	7	5	0.0	0	0	0	0	0.0	7	5	100.0
<hr/>													
	124	147	114	135		0	1	0	1		114	134	
TOTAL		271		249			1		1			248	

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded. (A) = Abortion. These dams are excluded from all group summary calculations.

Indices, which compare Implantations with Corpora Lutea, do not include animals, with an Implantation count > Corpora Lutea Count.

Indices, which compare Fetuses with Implantations, do not include animals, with a Fetus count > Implantation Count.

Individual Reproductive Data

Group: 2 100 mg/kg/day

Dam Number	Number of Corpora Lutea		Number of Implantations		% Pre- implantation Loss	- Number of Intra-Uterine Deaths - Early Resorption		Total Deaths		% Post- implantation Loss	Number of live fetuses		Live Fetuses as % of implantations
	Left	Right	Left	Right		L	R	L	R		Left	Right	
201	4	10	3	10	7.1	0	1	0	1	7.7	3	9	92.3
202	3	9	3	9	0.0	0	0	0	0	0.0	3	9	100.0
203	5	10	4	9	13.3	0	0	0	0	0.0	4	9	100.0
204	6	8	6	8	0.0	0	0	0	0	0.0	6	8	100.0
205	6	11	6	11	0.0	0	0	0	0	0.0	6	11	100.0
206	7	10	7	10	0.0	0	0	0	0	0.0	7	10	100.0
207	8	8	7	7	12.5	0	0	0	0	0.0	7	7	100.0
208	9	7	9	6	6.3	0	0	0	0	0.0	9	6	100.0
209	7	6	7	5	7.7	0	0	0	0	0.0	7	5	100.0
210	7	7	7	7	0.0	0	0	0	0	0.0	7	7	100.0
211	7	7	6	5	21.4	0	0	0	0	0.0	6	5	100.0
212	6	10	5	7	25.0	0	0	0	0	0.0	5	7	100.0
213	6	5	6	5	0.0	0	0	0	0	0.0	6	5	100.0
214	7	8	6	7	13.3	0	0	0	0	0.0	6	7	100.0
215	4	8	4	8	0.0	0	0	0	0	0.0	4	8	100.0
216	10	3	10	3	0.0	0	0	0	0	0.0	10	3	100.0
217	7	8	7	8	0.0	0	0	0	0	0.0	7	8	100.0
218	7	6	7	6	0.0	0	0	0	0	0.0	7	6	100.0
219	2	10	2	10	0.0	0	0	0	0	0.0	2	10	100.0
220	6	7	6	7	0.0	1	0	1	0	7.7	5	7	92.3
221	5	10	5	9	6.7	0	2	0	2	14.3	5	7	85.7
222	10	11	6	9	28.6	0	0	0	0	0.0	6	9	100.0
<hr/>													
TOTAL		139	179	129	166	1	3	1	3		128	163	
		318		295		4		4			291		

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded. (A) = Abortion. These dams are excluded from all group summary calculations.

Indices, which compare Implantations with Corpora Lutea, do not include animals, with an Implantation count > Corpora Lutea Count.

Indices, which compare Fetuses with Implantations, do not include animals, with a Fetus count > Implantation Count.

Individual Reproductive Data

Group: 3 300 mg/kg/day

Dam Number	Number of Corpora Lutea		Number of Implantations		% Pre- implantation Loss	- Number of Intra-Uterine Deaths - Early Resorption		Total Deaths		% Post- implantation Loss	Number of live fetuses		Live Fetuses as % of implantations
	Left	Right	Left	Right		L	R	L	R		Left	Right	
301	5	7	5	6	8.3	0	0	0	0	0.0	5	6	100.0
302	5	10	5	10	0.0	0	0	0	0	0.0	5	10	100.0
303	5	8	5	7	7.7	0	0	0	0	0.0	5	7	100.0
304	9	3	9	3	0.0	0	0	0	0	0.0	9	3	100.0
305	5	8	5	7	7.7	0	0	0	0	0.0	5	7	100.0
306	8	6	8	6	0.0	0	0	0	0	0.0	8	6	100.0
307	8	8	7	6	18.8	0	0	0	0	0.0	7	6	100.0
308	6	6	6	6	0.0	0	0	0	0	0.0	6	6	100.0
309	7	6	7	6	0.0	0	0	0	0	0.0	7	6	100.0
310	4	10	4	10	0.0	0	0	0	0	0.0	4	10	100.0
311	6	5	6	5	0.0	0	0	0	0	0.0	6	5	100.0
312	10	6	8	5	18.8	0	0	0	0	0.0	8	5	100.0
313 (NP)													
314	9	7	9	7	0.0	0	0	0	0	0.0	9	7	100.0
315	9	5	8	5	7.1	0	0	0	0	0.0	8	5	100.0
316	7	5	7	4	8.3	0	0	0	0	0.0	7	4	100.0
317	6	11	3	10	23.5	0	0	0	0	0.0	3	10	100.0
318	4	9	4	8	7.7	0	0	0	0	0.0	4	8	100.0
319	3	8	3	8	0.0	0	0	0	0	0.0	3	8	100.0
320	8	6	8	6	0.0	0	0	0	0	0.0	8	6	100.0
321	5	8	3	8	15.4	0	0	0	0	0.0	3	8	100.0
322	10	6	10	6	0.0	0	0	0	0	0.0	10	6	100.0
<hr/>													
	139	148	130	139		0	0	0	0		130	139	
TOTAL		287		269		0		0				269	

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded. (A) = Abortion. These dams are excluded from all group summary calculations.

Indices, which compare Implantations with Corpora Lutea, do not include animals, with an Implantation count > Corpora Lutea Count.

Indices, which compare Fetuses with Implantations, do not include animals, with a Fetus count > Implantation Count.

Individual Reproductive Data

Group: 4 900 mg/kg/day

Dam Number	Number of <i>Corpora Lutea</i>		Number of Implantations		% Pre- implantation Loss	- Number of Intra-Uterine Deaths - Early Resorption		Total Deaths		% Post- implantation Loss	Number of live fetuses		Live Fetuses as % of implantations
	Left	Right	Left	Right		L	R	L	R		Left	Right	
401	5	7	5	5	16.7	0	0	0	0	0.0	5	5	100.0
402	4	9	4	9	0.0	1	0	1	0	7.7	3	9	92.3
403	6	9	6	9	0.0	0	0	0	0	0.0	6	9	100.0
404	8	8	8	7	6.3	0	0	0	0	0.0	8	7	100.0
405	7	7	7	7	0.0	0	0	0	0	0.0	7	7	100.0
406	7	8	6	7	13.3	0	0	0	0	0.0	6	7	100.0
407	9	9	6	8	22.2	0	0	0	0	0.0	6	8	100.0
408	7	7	6	6	14.3	0	0	0	0	0.0	6	6	100.0
409	9	5	9	5	0.0	0	0	0	0	0.0	9	5	100.0
410	5	9	4	8	14.3	0	0	0	0	0.0	4	8	100.0
411	6	7	5	4	30.8	0	0	0	0	0.0	5	4	100.0
412	6	5	5	5	9.1	0	0	0	0	0.0	5	5	100.0
413	9	6	8	6	6.7	1	0	1	0	7.1	7	6	92.9
414	6	6	5	6	8.3	0	0	0	0	0.0	5	6	100.0
415	11	7	8	6	22.2	0	0	0	0	0.0	8	6	100.0
416	5	9	2	7	35.7	0	1	0	1	11.1	2	6	88.9
417	6	8	6	8	0.0	0	0	0	0	0.0	6	8	100.0
418	6	8	6	5	21.4	0	0	0	0	0.0	6	5	100.0
419	3	10	3	10	0.0	0	0	0	0	0.0	3	10	100.0
420	5	7	5	6	8.3	0	0	0	0	0.0	5	6	100.0
421	6	4	6	3	10.0	0	0	0	0	0.0	6	3	100.0
422	7	7	7	5	14.3	0	0	0	0	0.0	7	5	100.0
<hr/>													
TOTAL		143	162	127	142	2	1	2	1		125	141	
		305		269		3		3			266		

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded. (A) = Abortion. These dams are excluded from all group summary calculations.

Indices, which compare Implantations with *Corpora Lutea*, do not include animals, with an Implantation count > *Corpora Lutea* Count.

Indices, which compare Fetuses with Implantations, do not include animals, with a Fetus count > Implantation Count.

Appendix K
Individual Litter Data

Individual Litter Data

Group: 1 0 mg/kg/day

Dam Number	Number of Live Fetuses					% Live Male fetuses	Litter Weight (g)	Mean fetal weight (g)		
	Total	Males	Females	Herm.	Unsexed			Overall	Males	Females
101	13	4	9	0	0	30.8	71.39	5.492	5.852	5.331
102	14	7	7	0	0	50.0	74.16	5.297	5.501	5.093
103	13	9	4	0	0	69.2	75.79	5.830	5.964	5.528
104	12	5	7	0	0	41.7	66.36	5.530	5.616	5.469
105	11	8	3	0	0	72.7	64.29	5.845	6.039	5.327
106	13	7	6	0	0	53.8	70.59	5.430	5.630	5.197
107	8	3	5	0	0	37.5	43.78	5.472	5.573	5.412
108	11	4	7	0	0	36.4	58.65	5.332	5.695	5.124
109	12	7	5	0	0	58.3	71.15	5.929	6.050	5.760
110	10	7	3	0	0	70.0	58.28	5.828	5.780	5.940
111	9	4	5	0	0	44.4	49.05	5.450	5.870	5.114
112	11	2	9	0	0	18.2	66.24	6.022	6.465	5.923
113 (NP)										
114	12	5	7	0	0	41.7	65.95	5.496	5.702	5.349
115	13	5	8	0	0	38.5	78.40	6.031	6.174	5.941
116	13	5	8	0	0	38.5	73.60	5.662	5.874	5.529
117	14	7	7	0	0	50.0	82.31	5.879	6.041	5.717
118	14	9	5	0	0	64.3	79.13	5.652	5.637	5.680
119	11	5	6	0	0	45.5	61.87	5.625	5.802	5.477
120	11	5	6	0	0	45.5	63.13	5.739	6.010	5.513
121	11	5	6	0	0	45.5	63.89	5.808	6.006	5.643
122	12	4	8	0	0	33.3	64.83	5.403	5.515	5.346
TOTAL	248	117	131	0	0					

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded.
(A) = Abortion. These dams are excluded from all group summary calculations.
Values for dead fetuses are not included in means. Herm.= Hermaphrodites

Individual Litter Data

Group: 2 100 mg/kg/day

Dam Number	Number of Live Fetuses					% Live Male fetuses	Litter Weight (g)	Mean fetal weight (g)		
	Total	Males	Females	Herm.	Unsexed			Overall	Males	Females
201	12	7	5	0	0	58.3	72.51	6.043	6.123	5.930
202	12	1	11	0	0	8.3	65.31	5.442	5.800	5.410
203	13	4	9	0	0	30.8	72.84	5.603	5.893	5.474
204	14	9	5	0	0	64.3	75.88	5.420	5.502	5.272
205	17	8	9	0	0	47.1	97.57	5.739	5.898	5.599
206	17	8	9	0	0	47.1	87.42	5.142	5.204	5.088
207	14	6	8	0	0	42.9	79.46	5.676	5.815	5.571
208	15	9	6	0	0	60.0	82.86	5.524	5.776	5.147
209	12	5	7	0	0	41.7	66.29	5.524	5.758	5.357
210	14	6	8	0	0	42.9	81.92	5.851	6.100	5.665
211	11	5	6	0	0	45.5	60.96	5.542	5.638	5.462
212	12	4	8	0	0	33.3	72.03	6.003	6.428	5.790
213	11	4	7	0	0	36.4	66.11	6.010	6.142	5.934
214	13	8	5	0	0	61.5	71.39	5.492	5.696	5.164
215	12	5	7	0	0	41.7	69.98	5.832	6.064	5.666
216	13	1	12	0	0	7.7	71.67	5.513	5.900	5.481
217	15	7	8	0	0	46.7	83.28	5.552	5.673	5.446
218	13	9	4	0	0	69.2	75.56	5.812	5.938	5.530
219	12	6	6	0	0	50.0	69.67	5.806	5.922	5.690
220	12	6	6	0	0	50.0	64.38	5.365	5.562	5.168
221	12	6	6	0	0	50.0	68.61	5.717	5.882	5.553
222	15	5	10	0	0	33.3	85.41	5.694	5.852	5.615
TOTAL	291	129	162	0	0					

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded.
(A) = Abortion. These dams are excluded from all group summary calculations.
Values for dead foetuses are not included in means. Herm.= Hermaphrodites

Individual Litter Data

Group: 3 300 mg/kg/day

Dam Number	Number of Live Fetuses					% Live Male fetuses	Litter Weight (g)	Mean fetal weight (g)		
	Total	Males	Females	Herm.	Unsexed			Overall	Males	Females
301	11	5	6	0	0	45.5	65.33	5.939	6.204	5.718
302	15	7	8	0	0	46.7	89.81	5.987	6.177	5.821
303	12	4	8	0	0	33.3	65.85	5.487	5.680	5.391
304	12	3	9	0	0	25.0	72.77	6.064	6.220	6.012
305	12	4	8	0	0	33.3	69.39	5.782	6.020	5.664
306	14	7	7	0	0	50.0	83.04	5.931	6.221	5.641
307	13	4	9	0	0	30.8	69.22	5.325	5.460	5.264
308	12	5	7	0	0	41.7	68.61	5.718	5.728	5.710
309	13	8	5	0	0	61.5	74.67	5.744	5.884	5.520
310	14	8	6	0	0	57.1	82.01	5.858	6.024	5.637
311	11	5	6	0	0	45.5	65.23	5.930	6.092	5.795
312	13	8	5	0	0	61.5	75.89	5.838	5.974	5.620
313 (NP)										
314	16	10	6	0	0	62.5	89.11	5.569	5.585	5.543
315	13	10	3	0	0	76.9	75.33	5.795	6.076	4.857
316	11	5	6	0	0	45.5	65.30	5.936	6.104	5.797
317	13	5	8	0	0	38.5	75.37	5.798	6.014	5.662
318	12	8	4	0	0	66.7	69.19	5.766	5.846	5.605
319	11	5	6	0	0	45.5	64.41	5.855	5.958	5.770
320	14	8	6	0	0	57.1	74.92	5.351	5.567	5.063
321	11	8	3	0	0	72.7	58.96	5.360	5.384	5.297
322	16	7	9	0	0	43.8	89.56	5.597	5.590	5.603
TOTAL	269	134	135	0	0					

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded.
(A) = Abortion. These dams are excluded from all group summary calculations.
Values for dead foetuses are not included in means. Herm.= Hermaphrodites

Individual Litter Data

Group: 4 900 mg/kg/day

Dam Number	Number of Live Fetuses					% Live Male fetuses	Litter Weight (g)	Mean fetal weight (g)		
	Total	Males	Females	Herm.	Unsexed			Overall	Males	Females
401	10	3	7	0	0	30.0	47.60	4.760	5.050	4.636
402	12	8	4	0	0	66.7	64.26	5.355	5.400	5.265
403	15	7	8	0	0	46.7	79.36	5.291	5.383	5.210
404	15	8	7	0	0	53.3	80.08	5.339	5.552	5.094
405	14	6	8	0	0	42.9	77.89	5.564	5.887	5.321
406	13	5	8	0	0	38.5	62.63	4.818	5.082	4.653
407	14	10	4	0	0	71.4	70.83	5.059	5.121	4.905
408	12	5	7	0	0	41.7	55.49	4.624	4.812	4.490
409	14	8	6	0	0	57.1	79.19	5.656	5.767	5.508
410	12	7	5	0	0	58.3	61.80	5.150	5.150	5.150
411	9	3	6	0	0	33.3	48.97	5.441	5.433	5.445
412	10	4	6	0	0	40.0	54.01	5.401	5.563	5.293
413	13	8	5	0	0	61.5	60.38	4.645	4.665	4.612
414	11	8	3	0	0	72.7	57.90	5.264	5.372	4.973
415	14	6	8	0	0	42.9	70.27	5.019	5.167	4.909
416	8	6	2	0	0	75.0	37.49	4.686	4.495	5.260
417	14	6	8	0	0	42.9	72.46	5.176	5.228	5.136
418	11	5	6	0	0	45.5	56.18	5.107	5.286	4.958
419	13	10	3	0	0	76.9	56.54	4.349	4.393	4.203
420	11	4	7	0	0	36.4	58.47	5.315	5.615	5.144
421	9	6	3	0	0	66.7	44.64	4.960	5.230	4.420
422	12	8	4	0	0	66.7	63.83	5.319	5.446	5.065
TOTAL	266	141	125	0	0					

(NP) = Not Pregnant. (U) = Unscheduled Death. (TLL) = Total Litter Loss. (E) = Excluded.
(A) = Abortion. These dams are excluded from all group summary calculations.
Values for dead foetuses are not included in means. Herm.= Hermaphrodites

Appendix L
Individual Fetal Data

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
101								CL_Left 5 CL_Right 8 Gravid Uterus Wt (g) 93.55 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.15			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.67			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.68			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.55			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.28			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.28			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.73			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
101	R03	Viab	Skel	5.40			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.99			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.02			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation
	R06	Viab	Visc	5.49			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.07			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.08			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
102								CL_Left 7 CL_Right 8 Gravid Uterus Wt (g) 99.12 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.22			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
102	L02	Viab	Skel	5.14			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	L04	Viab	Skel	5.56			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.20			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.44			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 10th, Bipartite ossification, Variation
	L07	Viab	Visc	5.37			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.05			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.15			F	External, No Abnormalities Detected Head, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
102	R02	Viab	Visc	5.15			F	Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.31			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.68			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R05	Viab	Skel	5.64			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	4.62			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.27			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
103								CL Left 4 CL Right 9 Gravid Uterus Wt Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.65			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.38			F	External, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
103	L02	Viab	Visc	5.38			F	Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.61			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 1st right, Cervical rib, Variation
	L04	Viab	Visc	5.79			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.21			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.18			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.77			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.76			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.91			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
103	R06	Viab	Visc	5.98			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	6.17			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Visc	6.20			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Skel	6.18			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
104								CL Left 6 CL Right 7 Gravid Uterus Wt (g) 87.69 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.59			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.15			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.49			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
104	L04	Viab	Skel	5.56			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.75			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.35			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.44			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.90			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.23			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.42			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.79			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
104	R07	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
105								CL_Left 5 CL_Right 7 Gravid Uterus Wt (g) 86.74 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.08			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.84			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	6.24			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	6.13			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.07			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.44			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
105	R02	Viab	Skel	6.14			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.09			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.46			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.96			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.84			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
106								CL_Left 5 CL_Right 8 Gravid Uterus Wt (g) 97.00 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.54			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.67			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
106	L03	Viab	Skel	5.99			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.36			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.39			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.07			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.60			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.71			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.51			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.01			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
106	R06	Viab	Skel	5.69			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.14			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	4.91			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
107								CL_Left 7 CL_Right 6 Gravid Uterus Wt (g) 64.49 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.48			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.72			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	6.57			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.99			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
107	R01	Viab	Skel	4.24			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th left, Short supernumerary, Variation
	R02	Viab	Visc	4.30			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.63			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.85			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
108								CL_Left 5 CL_Right 6 Gravid Uterus Wt (g) 80.08 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.78			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.28			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.29			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
108	L04	Viab	Visc	4.68			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05*	Viab	Skel	5.18			F	Skeletal Elements Missing/Disarticulated (Artifact of Processing):multiple ribs, right External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.37			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.83			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.29			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, Abdomen, Spleen, Enlarged, Variation Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	6.00			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.44			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

'*' = Comment Present.

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
109								CL_Left 3 CL_Right 9 Gravid Uterus Wt (g) 99.16 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	6.05			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.79			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	6.15			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.31			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.14			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.07			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	6.47			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
109	R05	Viab	Visc	5.96			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.96			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.69			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.99			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Visc	6.57			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
110								CL_Left 8 CL_Right 5 Gravid Uterus Wt (g) 78.91 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.58			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

(H-28746) 70% Glycolic Acid Technical Solution:
Developmental Toxicity Study in Rats

DuPont-18011-841

Group: 1 0 mg/kg/day						Individual Fetal Data	
Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex Observations
110	L02	Viab	Skel	6.11			F External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.75			M External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	6.18			M External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.75			M External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.94			F External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Visc	5.77			F External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Skel	5.76			M External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.78			M External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
110	R02	Viab	Skel	5.66			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
111								CL_Left 7 CL_Right 8 Gravid Uterus Wt (g) 66.20 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	6.11			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.74			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.94			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.30			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.05			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.69			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
111	R03	Viab	Visc	5.07			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	4.95			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.20			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
112								CL Left 7 CL Right 4 Gravid Uterus Wt (g) 89.77 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.51			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.81			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	6.19			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	6.34			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
112	L05	Viab	Skel	5.71			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	6.54			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.55			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	6.39			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	6.13			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.19			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.88			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
113								CL_Left CL_Right Gravid Uterus Wt Pregnancy Type: Not Pregnant Early PM: No

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
114								CL_Left 3 CL_Right 9 Gravid Uterus Wt (g) 89.29 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.52			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.35			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.55			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.14			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.26			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.59			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.51			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
114	R05	Viab	Skel	5.02			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	6.26			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.04			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Visc	5.75			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Skel	5.96			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
115								CL Left 8 CL Right 5 Gravid Uterus Wt (g) 103.80 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	6.07			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.94			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
115	L03	Viab	Skel	6.51			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.97			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.99			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.80			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	6.04			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
	L08	Viab	Visc	5.80			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01*	Viab	Skel	6.14			M	tail missing External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.01			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

'*' = Comment Present.

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
115	R03	Viab	Skel	5.96			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	6.06			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.11			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
116								CL_Left 8 CL_Right 9 Gravid Uterus Wt (g) 95.36 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.42			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.97			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.75			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.52			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
116	L04	Viab	Visc	5.52			F	Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.27			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.77			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	6.07			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.37			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R03	Earl						
	R04	Viab	Skel	5.76			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.97			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.80			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
116	R07	Viab	Visc	5.36			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.57			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
117								CL_Left 8 CL_Right 6 Gravid Uterus Wt (g) 111.24 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	6.08			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.88			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.88			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.59			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.17			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
117	L06	Viab	Visc	5.74			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.78			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	5.89			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.59			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.06			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.61			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R04	Viab	Visc	6.27			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.05			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
117	R06	Viab	Visc	5.72			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
118								CL Left 6 CL Right 8 Gravid Uterus Wt (g) 106.11 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.30			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.35			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.66			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.77			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.79			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 1st right, Cervical rib, Variation
	L06	Viab	Skel	6.09			F	External, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
118	L06	Viab	Skel	6.09			F	Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.54			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.40			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.78			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.57			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.48			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.62			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.91			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
118	R08	Viab	Skel	5.87			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
119								CL_Left 4 CL_Right 8 Gravid Uterus Wt (g) 81.38 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.87			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.73			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.54			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.96			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.22			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.76			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
119	R03	Viab	Skel	5.74			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.59			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.48			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.68			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.30			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
120								CL Left 5 CL Right 6 Gravid Uterus Wt (g) 84.53 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.47			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.62			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
120	L03	Viab	Skel	5.95			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.73			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.52			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.36			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.97			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.10			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.97			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.38			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
120	R06	Viab	Skel	6.06			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
121								CL_Left 6 CL_Right 6 GravId Uterus Wt (g) 83.25 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	6.17			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.37			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.43			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.65			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	6.23			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
121	R02	Viab	Visc	5.84			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R03	Viab	Skel	5.78			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.77			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.08			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.88			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
122								CL_Left 7 CL_Right 5 Gravid Uterus Wt (g) 89.67 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.22			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.31			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
122	L03	Viab	Visc	5.57			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.48			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.32			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.39			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Visc	5.40			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.11			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.75			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.35			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 1 0 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
122	R04	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.42			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
201								CL Left 4 CL Right 10 Gravid Uterus Wt (g) 96.25 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	6.19			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	6.34			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	6.17			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.96			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.05			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.77			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	6.18			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
201	R05	Viab	Skel	5.86			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.96			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Earl						
	R08	Viab	Skel	6.13			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Visc	5.89			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R10	Viab	Skel	6.01			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
202								CL Left 3 CL Right 9 Gravid Uterus Wt (g) 89.53 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.43			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.61			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

(H-28746) 70% Glycolic Acid Technical Solution:
Developmental Toxicity Study in Rats

DuPont-18011-841

Individual Fetal Data						Placental Wt		Sex		Observations	
Group: 2	100 mg/kg/day	Posn	Type	Exam Set	Fetal Wt g	C/R					
Dam Number											
202		L03	Viab	Skel	5.52						
		R01	Viab	Visc	5.00						
		R02	Viab	Skel	5.31						
		R03	Viab	Visc	5.61						
		R04	Viab	Skel	5.29						
		R05	Viab	Visc	5.37						
		R06	Viab	Skel	5.80						
		R07	Viab	Visc	5.65						

(H-28746) 70% Glycolic Acid Technical Solution:
Developmental Toxicity Study in Rats

DuPont-18011-841

Group: 2 100 mg/kg/day				Individual Fetal Data			
Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex Observations
202	R07	Viab	Visc	5.65			F Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.29			F External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Visc	5.43			F External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
203	L01	Viab	Visc	6.09			CL Left 5 CL Right 10 Gravid Uterus Wt (g) 97.87 Pregnancy Type: Pregnant Early PM: No
	L02	Viab	Skel	5.35			F External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.87			F External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.30			F External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
203	R01	Viab	Visc	6.28			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.00			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.58			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.23			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.66			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.30			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.54			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.55			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
203	R09	Viab	Skel	6.09			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
204								CL Left 6 CL Right 8 Gravida Uterus Wt (g) 99.62 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.67			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.32			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.43			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.44			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.72			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.37			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
204	R01	Viab	Skel	5.55			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.01			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.85			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.32			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.16			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.44			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.22			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Visc	5.38			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
205								CL_Left 6 CL_Right 11 Gravid Uterus Wt (g) 132.82 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	6.07			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.85			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.31			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.76			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.95			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.55			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
205	R02	Viab	Skel	5.57			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.14			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	6.23			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.83			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.09			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.54			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation
	R08	Viab	Skel	5.38			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Visc	6.04			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
205	R10	Viab	Skel	5.88			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R11	Viab	Skel	5.87			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
206								CL_Left 7 CL_Right 10 Gravid Uterus Wt (g) 114.03 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.16			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.07			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.14			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	4.98			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.30			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
206	L06	Viab	Visc	5.31			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.40			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01*	Viab	Visc	4.70			M	Skeletal Elements Missing/Disarticulated (Artifact of Processing):multiple ribs,right External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	4.98			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.49			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.49			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	4.80			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	4.93			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

'*' = Comment Present.

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
206	R07	Viab	Visc	5.06			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	4.97			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Visc	5.19			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R10	Viab	Skel	5.45			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
207								CL_Left 8 CL_Right 8 Gravid Uterus Wt (g) 106.96 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.43			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.45			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.65			F	External, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
207	L03	Viab	Visc	5.65			F	Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	6.18			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.71			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.40			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Visc	5.65			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.32			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.78			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	6.06			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
207	R04	Viab	Visc	5.74			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.57			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.83			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
208								CL_Left 9 CL_Right 7 Gravid Uterus Wt (g) 110.65 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.72			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.77			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.99			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
208	L04	Viab	Visc	5.75			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.51			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.66			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.24			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	5.80			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L09	Viab	Skel	6.63			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	6.01			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th left, Short supernumerary, Variation
	R02	Viab	Skel	5.25			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
208	R03	Viab	Visc	5.48			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.13			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.12			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	4.80			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
209								CL_Left 7 CL_Right 6 Gravid Uterus Wt (g) 87.28 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.38			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.78			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.22			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
209	L04	Viab	Visc	5.92			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.30			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.88			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	6.02			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.41			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.68			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	4.70			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.43			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
209	R05	Viab	Visc	5.57			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
210								CL Left 7 CL Right 7 Gravid Uterus Wt (g) 114.26 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.79			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.74			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.40			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	6.16			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.86			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation
	L06	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
210	L07	Viab	Visc	5.75			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.58			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.72			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.80			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	6.72			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.64			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	6.08			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.99			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
211								CL Left 7 CL Right 7 Gravid Uterus Wt (g) 80.89 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.91			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.55			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.64			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.38			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.43			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.54			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
211	R02	Viab	Visc	5.89			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.23			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.52			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.36			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
212								CL_Left 6 CL_Right 10 Gravid Uterus Wt (g) 92.18 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	6.46			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	6.69			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.93			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
212	L04	Viab	Visc	5.30			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.33			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.78			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.94			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.82			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.78			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.79			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
212	R06	Viab	Skel	6.23			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.98			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
213								CL_Left 6 CL_Right 5 GravId Uterus Wt (g) 92.02 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	6.16			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	6.24			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.99			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.73			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	6.00			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
213	L06	Viab	Skel	6.01			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.96			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.75			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.33			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.94			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.00			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
214								CL_Left 7 CL_Right 8 Gravid Uterus Wt (g) 95.41 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.01			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
214	L02	Viab	Skel	5.84			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.33			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	4.63			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.67			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.60			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.02			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.78			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.70			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
214	R04	Viab	Skel	5.22			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.80			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.85			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.94			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
215								CL_Left 4 CL_Right 8 Gravid Uterus Wt (g) 91.64 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.85			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	6.07			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	6.44			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
215	L04	Viab	Skel	5.52			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.68			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.64			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.47			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.77			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.86			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	6.10			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.94			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
215	R08	Viab	Skel	5.64			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
216								CL Left 10 CL Right 3 Gravid Uterus Wt (g) 94.97 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.42			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.75			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.34			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.67			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	4.99			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
	L06	Viab	Visc	5.90			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
216	L07	Viab	Skel	5.41			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	5.58			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L09	Viab	Skel	5.29			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L10	Viab	Visc	5.52			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.71			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.43			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.66			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
217								CL_Left 7 CL_Right 8 Gravid Uterus Wt (g) 108.92 Pregnancy Type: Pregnant Early PM: No

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
217	L01	Viab	Skel	5.86			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.61			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.63			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.86			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.87			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.56			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
217	R02	Viab	Skel	5.16			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.49			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.49			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.46			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.35			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.23			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.51			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
218								CL Left 7 CL Right 6 Gravid Uterus Wt (g) 103.27 Pregnancy Type: Pregnant Early PM: No

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
218	L01	Viab	Skel	6.49			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02*	Viab	Visc	5.71			F	Skeletal Elements Missing/Disarticulated (Artifact of Processing):rear paw,left External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.93			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	6.08			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	4.92			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.73			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.36			F	External, No Abnormalities Detected Skeletal - Head, Skull, Interparietal, Incomplete ossification, Variation Skeletal - Head, Skull, Parietal, Bilateral, Incomplete ossification, Variation Skeletal - Body, Pelvic girdle, Pubis, Bilateral, Incomplete ossification, Variation Skeletal - Body, Pelvic girdle, Ischium, Bilateral, Incomplete ossification, Variation

'*' = Comment Present.

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
218	R01	Viab	Visc	5.32			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.95			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.17			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	6.22			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.35			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	6.33			M	External, No Abnormalities Detected Skeletal - Head, Skull, Supraoccipital, Incomplete ossification, Variation Skeletal - Head, Skull, Parietal, Bilateral, Incomplete ossification, Variation Skeletal - Body, No Abnormalities Detected
219								CL_Left 2 CL_Right 10 Gravid Uterus Wt (g) 93.32 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	6.00			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
219	L01	Viab	Visc	6.00			F	Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	6.06			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.60			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.60			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.60			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	6.08			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	6.03			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.62			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.67			F	External, No Abnormalities Detected Head, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
219	R07	Viab	Visc	5.67			F	Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.67			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Sternebrae, Sternebrae, 5th, Misaligned, Variation Skeletal - Body, Sternebrae, Sternebrae, 4th, Misaligned, Variation
	R09	Viab	Visc	5.94			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R10	Viab	Skel	5.80			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
220								CL_Left 6 CL_Right 7 Gravid Uterus Wt (g) 87.77 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.77			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.41			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Earl						
	L04	Viab	Skel	5.48			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
220	L05	Viab	Visc	5.55			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.49			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.37			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.54			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.68			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.08			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.13			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	4.78			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
220	R07	Viab	Visc	5.10			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
221								CL Left 5 CL Right 10 Gravid Uterus Wt (g) 95.24 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.52			F	External, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	6.23			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.92			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.72			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.81			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.35			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected

(H-28746) 70% Glycolic Acid Technical Solution:
Developmental Toxicity Study in Rats

Group: 2 100 mg/kg/day					DuPont-18011-841				
Dam Number					Individual Fetal Data				
221									
Posn					Placental Wt				
R01					Sex Observations				
Type Exam Set Fetal Wt g					F Skeletal - Body, No Abnormalities Detected				
R02 Viab Visc					External, No Abnormalities Detected				
Viab Skel 5.35					Skeletal - Head, No Abnormalities Detected				
C/R					Head, No Abnormalities Detected				
R03 Viab Skel 5.35					Visceral, No Abnormalities Detected				
Viab Visc 5.49					Skeletal - Body, No Abnormalities Detected				
R04 Ear1					External, No Abnormalities Detected				
R05 Viab Skel 5.99					Skeletal - Head, No Abnormalities Detected				
Ear1					External, No Abnormalities Detected				
R06 Viab Skel 5.89					Skeletal - Head, No Abnormalities Detected				
Ear1					Visceral, No Abnormalities Detected				
R07 Viab Visc 5.73					Skeletal - Body, No Abnormalities Detected				
Viab Skel 5.61					External, No Abnormalities Detected				
R08 Viab Visc 5.87					Skeletal - Head, No Abnormalities Detected				
Viab Skel 5.73					Visceral, No Abnormalities Detected				
R09 CL_Left 10 CL_Right 11					Gravid Uterus Wt (g) 112.87				
222									

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
222								Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.69			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.66			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.46			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.96			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.65			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.78			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.60			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.84			M	External, No Abnormalities Detected

Individual Fetal Data

Group: 2 100 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
222	R02	Viab	Skel	5.84			M	Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.59			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.59			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	6.36			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.82			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.32			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.44			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Skel	5.65			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
301								CL_Left 5 CL_Right 7 Gravid Uterus Wt (g) 88.10 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	6.02			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.95			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.58			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.60			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.73			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	6.01			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	6.36			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.89			M	External, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
301	R03	Viab	Visc	5.89			M	Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.65			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	6.03			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.51			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
302								CL_Left 5 CL_Right 10 Gravid Uterus Wt (g) 119.17 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.86			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.86			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.83			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	6.10			F	External, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
302	L04	Viab	Visc	6.10			F	Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.10			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.86			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	6.46			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.19			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.82			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	6.39			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.99			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
302	R07	Viab	Visc	5.58			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.42			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Visc	6.10			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R10	Viab	Skel	6.25			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
303								CL_Left 5 CL_Right 8 Gravid Uterus Wt (g) 86.28 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.72			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.46			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.53			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
303	L04	Viab	Skel	5.70			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.26			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.00			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.22			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.47			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.64			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.57			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.32			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
303	R07	Viab	Skel	5.96			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
304								CL_Left 9 CL_Right 3 Gravid Uterus Wt (g) 98.74 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.47			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	6.80			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 1st right, Cervical rib, Variation
	L03	Viab	Visc	5.77			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	6.09			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	6.26			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.72			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
304	L07	Viab	Visc	5.59			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Skel	5.87			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L09	Viab	Visc	5.94			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	6.41			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.14			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	6.71			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
305								CL_Left 5 CL_Right 8 Gravid Uterus Wt (g) 92.41 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.78			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
305	L02	Viab	Visc	5.34			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.90			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.48			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.02			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.74			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	6.11			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.14			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
	R04	Viab	Skel	5.47			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
305	R05	Viab	Visc	5.90			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	6.02			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.49			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
306								CL_Left 8 CL_Right 6 Gravid Uterus Wt (g) 110.96 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.49			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.54			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.93			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.74			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
306	L05	Viab	Skel	6.21			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.89			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	6.57			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	6.60			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	6.02			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.19			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.49			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	6.07			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
306	R05	Viab	Skel	5.67			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.63			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
307								CL_Left 8 CL_Right 8 Gravid Uterus Wt (g) 93.24 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.56			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	4.93			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	4.74			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.73			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.35			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
307	L06	Viab	Visc	5.59			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.45			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	4.98			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.31			F	External, No Abnormalities Detected Skeletal - Head, Skull, Supraoccipital, Incomplete ossification, Variation Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.61			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.08			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.20			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.69			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
308								CL_Left 6 CL_Right 6 Gravid Uterus Wt (g) 93.04 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.85			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.94			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.76			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.48			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.60			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	6.22			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.47			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.12			F	External, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
308	R02	Viab	Visc	6.12			F	Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.65			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.63			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.34			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.55			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
309								CL_Left 7 CL_Right 6 Gravid Uterus Wt (g) 102.31 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.83			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.78			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
309	L03	Viab	Skel	5.93			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.70			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.82			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.36			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.73			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.71			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.29			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.39			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
309	R04	Viab	Skel	6.10			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.83			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	6.20			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
310								CL_Left 4 CL_Right 10 Gravid Uterus Wt (g) 109.83 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	6.07			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.58			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	6.26			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
310	R01	Viab	Skel	5.14			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.98			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.53			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.63			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.21			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.84			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	6.21			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Visc	5.84			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
310	R09	Viab	Skel	5.99			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R10	Viab	Visc	6.04			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
311								CL_Left 6 CL_Right 5 Gravid Uterus Wt (g) 87.00 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.95			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.95			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.72			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.94			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.37			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
311	L06	Viab	Visc	5.82			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.82			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.96			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	6.07			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.51			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.12			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
312								CL_Left 10 CL_Right 6 Gravid Uterus Wt (g) 101.25 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.45			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
312	L02	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	6.04			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.54			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.84			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.68			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Visc	5.77			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Skel	6.13			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.51			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
312	R02	Viab	Skel	5.95			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.24			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.79			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	6.26			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
313								CL_Left CL_Right Gravid Uterus Wt Pregnancy Type: Not Pregnant Early PM: No
314								CL_Left 9 CL_Right 7 Gravid Uterus Wt (g) 119.63 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.79			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.97			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.65			M	External, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
314	L03	Viab	Skel	5.65			M	Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.02			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	6.23			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.13			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	4.06			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	5.64			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L09	Viab	Skel	5.97			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.73			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
314	R02	Viab	Skel	5.47			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.77			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.39			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.75			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	6.03			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
315								CL_Left 9 CL_Right 5 Gravid Uterus Wt (g) 102.52 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.81			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
315	L02	Viab	Skel	5.52			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	6.29			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	6.10			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	6.01			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	3.80			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 5th, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 8th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th left, Short supernumerary, Variation
	L07	Viab	Visc	5.25			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Skel	6.05			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
315	R01	Viab	Visc	6.64			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	6.12			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.24			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.95			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.55			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
316								CL_Left 7 CL_Right 5 Gravid Uterus Wt (g) 88.65 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.41			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.85			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
316	L03	Viab	Skel	6.25			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.82			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.52			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.95			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	6.09			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.90			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	6.02			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.09			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
316	R04	Viab	Skel	6.40			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
317								CL Left 6 CL Right 11 Gravid Uterus Wt (g) 103.91 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.94			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	6.01			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.87			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.74			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.86			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.56			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
317	R04	Viab	Skel	6.03			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.89			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.47			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.60			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.17			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Visc	6.11			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R10	Viab	Skel	6.12			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
318								CL_Left 4 CL_Right 9 GravId Uterus Wt (g) 94.16 Pregnancy Type: Pregnant Early PM: No

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
318	L01	Viab	Visc	5.90			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.76			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	6.20			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.77			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	4.81			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.90			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	6.14			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.98			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
318	R05	Viab	Visc	5.62			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.18			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.57			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
	R08	Viab	Skel	6.36			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
319								CL Left 3 CL_Right 8 Gravid Uterus Wt (g) 85.48 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.81			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.72			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	6.16			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
319	R01	Viab	Skel	5.82			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	6.14			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.76			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.75			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.56			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.96			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	6.04			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
320								CL_Left 8 CL_Right 6 GravId Uterus Wt (g) 102.39 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.55			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.71			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.35			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.24			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.18			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.62			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.82			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	5.24			F	External, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
320	L08	Viab	Visc	5.24			F	Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, Multiple Sites, Wavy, Variation
	R01	Viab	Skel	5.35			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.03			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, Multiple Sites, Wavy, Variation
	R03	Viab	Skel	5.03			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.66			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.63			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
321								CL_Left 5 CL_Right 8 Gravid Uterus Wt (g) 79.35 Pregnancy Type: Pregnant Early PM: No

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
321	L01	Viab	Skel	5.38			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.47			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.75			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.30			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.49			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	4.94			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.15			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.57			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
321	R06	Viab	Skel	5.24			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.27			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.40			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
322								CL_Left 10 CL_Right 6 Gravid Uterus Wt (g) 119.89 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.39			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.93			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.41			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.52			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
322	L05	Viab	Skel	5.81			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.52			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.68			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	5.38			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L09	Viab	Skel	5.45			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L10	Viab	Visc	5.54			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.69			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.59			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 3 300 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
322	R03	Viab	Skel	5.77			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.66			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.58			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.64			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
401								CL_Left 5 CL_Right 7 Gravid Uterus Wt (g) 66.22 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.11			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
	L02	Viab	Visc	4.95			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	L03	Viab	Skel	4.50			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	4.93			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	4.61			F	External, No Abnormalities Detected Skeletal - Head, Skull, Supraoccipital, Incomplete ossification, Variation Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	4.53			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	4.44			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
401	R03	Viab	Visc	4.34			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.10			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.09			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
402								CL_Left 4 CL_Right 9 Gravid Uterus Wt (g) 86.62 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.35			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th left, Full supernumerary rib, Variation Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
	L02	Viab	Visc	5.24			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th bilateral, Full supernumerary rib, Variation
	L03	Viab	Skel	5.45			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	L04	Earl						

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
402	R01	Viab	Visc	5.26			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th bilateral, Full supernumerary rib, Variation
	R02	Viab	Skel	5.42			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	R03	Viab	Visc	5.23			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation
	R04	Viab	Skel	5.71			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.36			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Full supernumerary rib, Variation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	R06	Viab	Skel	5.21			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Full supernumerary rib, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
402	R07	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	R08	Viab	Skel	4.96			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	R09	Viab	Visc	5.56			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Full supernumerary rib, Variation
403								CL_Left 6 CL_Right 9 Gravid Uterus Wt (g) 111.05 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.32			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	4.85			F	External, No Abnormalities Detected Skeletal - Head, Skull, Supraoccipital, Incomplete ossification, Variation Skeletal - Body, Pelvic girdle, Pubis, Left, Incomplete ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
403	L03	Viab	Visc	5.36			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	4.97			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.33			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.42			F	External, No Abnormalities Detected Skeletal - Head, Skull, Supraoccipital, Incomplete ossification, Variation Skeletal - Head, Skull, Parietal, Bilateral, Incomplete ossification, Variation Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.02			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.42			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.42			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 6th, Bipartite ossification, Variation
	R04	Viab	Skel	5.05			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.39			M	External, No Abnormalities Detected Head, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
403	R05	Viab	Visc	5.39			M	Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.50			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.42			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.31			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R09	Viab	Skel	5.58			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
404								CL_Left 8 CL_Right 8 Gravid Uterus Wt (g) 104.82 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.16			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.77			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.32			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
404	L04	Viab	Skel	5.44			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.16			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.44			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Visc	4.84			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation
	L08	Viab	Skel	5.88			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.14			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	4.56			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
404	R03	Viab	Visc	5.15			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.45			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.49			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.49			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.79			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
405								CL_Left 7 CL_Right 7 Gravid Uterus Wt (g) 109.58 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.75			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	L02	Viab	Visc	5.45			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
405	L03	Viab	Skel	6.06			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.48			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 10th, Bipartite ossification, Variation
	L05	Viab	Skel	4.93			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.97			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	L07	Viab	Skel	6.05			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th left, Short supernumerary, Variation Skeletal - Body, Ribs, Rib, 14th right, Full supernumerary rib, Variation
	R01	Viab	Visc	5.30			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	R02	Viab	Skel	5.47			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
405	R03	Viab	Visc	5.17			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.32			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.51			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.98			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	5.45			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Full supernumerary rib, Variation
406								CL_Left 7 CL_Right 8 Gravid Uterus Wt (g) 77.58 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.14			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 3rd, Bipartite ossification, Variation
	L02	Viab	Skel	4.93			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
406	L02	Viab	Skel	4.93			M	Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation
	L03	Viab	Visc	4.89			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation
	L04	Viab	Skel	5.23			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	L05	Viab	Visc	4.51			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite \ ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite \ ossification, Variation
	L06	Viab	Skel	4.18			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R01	Viab	Visc	4.39			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
406	R02	Viab	Skel	4.80			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.19			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	4.61			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	4.92			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Bipartite ossification, Variation
	R06	Viab	Skel	5.15			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 2nd, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation
	R07	Viab	Skel	4.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 2nd, Bipartite ossification, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
406	R07	Viab	Skel	4.69			F	Skeletal - Body, Vertebrae, Thoracic centrum, 9th, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation
407								CL_Left 9 CL_Right 9 Gravid Uterus Wt (g) 99.60 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.25			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.09			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th right, Full supernumerary rib, Variation
	L03	Viab	Visc	5.25			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.39			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.01			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	4.72			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
407	R01	Viab	Visc	5.04			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.04			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	R03	Viab	Visc	5.17			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.10			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	R05	Viab	Visc	4.64			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation
	R06	Viab	Skel	5.12			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Visc	4.88			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Skel	5.13			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
407	R08	Viab	Skel	5.13			M	Skeletal - Body, No Abnormalities Detected
408								CL_Left 7 CL_Right 7 Gravid Uterus Wt (g) 75.39 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	4.13			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th bilateral, Full supernumerary rib, Variation
	L02	Viab	Skel	5.03			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.08			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	4.82			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	4.51			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th left, Full supernumerary rib, Variation
	L06	Viab	Skel	4.36			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
408	R01	Viab	Visc	4.47			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation
	R02	Viab	Skel	5.08			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	4.57			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	4.47			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	4.67			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 2nd, Bipartite ossification, Variation
	R06	Viab	Skel	4.30			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic vertebra, 12th, Hemivertebra, Malformation Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Bipartite ossification, Variation Skeletal - Body, Sternebrae, Sternebrae, 1st, Misaligned, Variation
409	CL_Left 9 CL_Right 5 Gravida Uterus Wt (g) 110.20 Pregnancy Type: Pregnant Early PM: No							

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
409	L01	Viab	Visc	5.83			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.52			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.72			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.27			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.60			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.41			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Visc	5.87			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Skel	5.60			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
409	L09	Viab	Visc	6.04			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	6.12			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.45			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.63			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.34			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 9th, Bipartite ossification, Variation
	R05	Viab	Skel	5.79			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
410								CL_Left 5 CL_Right 9 Gravid Uterus Wt (g) 85.44 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.97			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
410	L02	Viab	Visc	5.44			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.62			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.83			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.02			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	4.72			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 3rd, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Bipartite ossification, Variation
	R03	Viab	Skel	5.20			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 2nd, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 4th, Bipartite ossification, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
410	R04	Viab	Visc	5.09			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	4.98			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.05			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	4.90			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Visc	4.98			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
411								CL_Left 6 CL_Right 7 Gravid Uterus Wt (g) 66.43 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.84			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	L02	Viab	Visc	5.38			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
411	L02	Viab	Visc	5.38			F	Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.58			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.14			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.83			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	5.63			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.44			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.44			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
412	CL_Left 6 CL_Right 5 Gravid Uterus Wt (g) 76.11							

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
412								Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.60			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	4.76			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.42			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.45			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.21			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.65			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	5.06			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 7th, Bipartite ossification, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
412	R03	Viab	Skel	5.55			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.68			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.63			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
413								CL_Left 9 CL_Right 6 GravId Uterus Wt (g) 88.21 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.43			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 4th, Bipartite ossification, Variation
	L02	Viab	Visc	4.84			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	4.69			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	4.39			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
413	L05	Viab	Skel	4.65			F	External, No Abnormalities Detected Skeletal - Head, Skull, Supraoccipital, Incomplete ossification, Variation Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	4.78			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 2nd, Bipartite ossification, Variation
	L07	Earl						
	L08	Viab	Skel	4.90			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R01	Viab	Visc	4.77			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	4.28			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.05			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	4.81			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
413	R05	Viab	Visc	4.39			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	4.40			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation
414								CL_Left 6 CL_Right 6 Gravid Uterus Wt (g) 83.78 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.18			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	4.50			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	L03	Viab	Skel	4.06			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	L04	Viab	Visc	4.89			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.42			F	External, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
414	L05	Viab	Skel	5.42			F	Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R01	Viab	Visc	5.21			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 4th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th left, Short supernumerary, Variation
	R02	Viab	Skel	5.44			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th left, Short supernumerary, Variation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	R03	Viab	Visc	6.02			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.93			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	R05	Viab	Visc	5.54			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 11th, Bipartite ossification, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
414	R06	Viab	Skel	5.71			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
415								CL_Left 11 CL_Right 7 Gravid Uterus Wt (g) 97.92 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.73			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation
	L02	Viab	Visc	4.98			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.07			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	5.27			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	4.94			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	4.64			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.19			M	External, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
415	L07	Viab	Skel	5.19			M	Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L08	Viab	Visc	5.06			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 13th, Bipartite ossification, Variation
	R01	Viab	Skel	5.41			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	4.86			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	4.94			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.21			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 1st, Bipartite ossification, Variation
	R05	Viab	Skel	5.08			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	4.89			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
415	R06	Viab	Visc	4.89			F	Skeletal - Body, No Abnormalities Detected
416								CL_Left 5 CL_Right 9 Gravid Uterus Wt (g) 56.46 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	4.47			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.26			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	5.41			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	4.23			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Earl						
	R04	Viab	Skel	5.26			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.03			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
416	R06	Viab	Skel	2.11			M	External, No Abnormalities Detected Skeletal - Head, Skull, Parietal, Bilateral, Incomplete ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 5th, Bipartite ossification, Variation Skeletal - Body, Sternebrae, Sternebrae, 6th, Unossified, Variation
	R07	Viab	Visc	5.72			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
417								CL_Left 6 CL_Right 8 Gravid Uterus Wt (g) 98.01 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.31			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Visc	5.41			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.07			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Visc	4.45			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.76			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
417	L05	Viab	Skel	5.76			F	Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	5.01			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Skel	4.91			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Visc	4.93			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	R03	Viab	Skel	5.48			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	R04	Viab	Visc	5.64			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th bilateral, Short supernumerary, Variation
	R05	Viab	Skel	5.18			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Visc	5.14			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R07	Viab	Skel	5.35			M	External, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
417	R07	Viab	Skel	5.35			M	Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R08	Viab	Visc	4.82			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
418								CL_Left 6 CL_Right 8 Gravid Uterus Wt (g) 73.39 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	4.91			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.41			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Visc	5.54			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.26			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	4.86			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
418	L06	Viab	Skel	4.93			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R01	Viab	Visc	4.67			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.13			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.16			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.09			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.22			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
419								CL_Left 3 CL_Right 10 Gravid Uterus Wt (g) 81.42 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	4.65			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
419	L02	Viab	Skel	4.92			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic vertebra, 2nd, Hemivertebra, Malformation Skeletal - Body, Vertebrae, Thoracic centrum, 4th, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 5th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 2nd right, Absent, Malformation Skeletal - Body, Ribs, Rib, 5th right, Fused, Malformation * fused to 6th right rib
	L03	Viab	Visc	4.89			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 3rd, Hemicentric, Variation Skeletal - Body, Ribs, Rib, 5th right, Fused, Malformation * fused to 6th right rib
	R01	Viab	Skel	4.47			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 3rd, Bipartite ossification, Variation
	R02	Viab	Visc	4.13			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	3.86			F	External, Body, Trunk, Gastroschisis, Malformation Head, No Abnormalities Detected Visceral, No Abnormalities Detected

'*' = Comment Present.

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
419	R03	Viab	Visc	3.86			F	Skeletal - Body, Vertebrae, Thoracic vertebra, 3rd, Hemivertebra, Malformation Skeletal - Body, Vertebrae, Thoracic vertebra, 7th, Hemivertebra, Malformation Skeletal - Body, Vertebrae, Thoracic arch, 5th, Fused, Malformation * fused to 6th arch Skeletal - Body, Vertebrae, Thoracic centrum, 1st, Unossified, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 6th, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 9th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, 14th left, Short supernumerary, Variation Skeletal - Body, Ribs, Rib, 14th right, Full supernumerary rib, Variation Skeletal - Body, Ribs, Rib, 3rd right, Absent, Malformation Skeletal - Body, Ribs, Rib, 7th right, Absent, Malformation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Bipartite ossification, Variation Skeletal-Body, Sternebrae, Sternebrae, 1st, Fused, Variation * fused to 2nd sternebra
	R04	Viab	Visc	4.68			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic vertebra, 3rd, Hemivertebra, Malformation Skeletal - Body, Vertebrae, Thoracic centrum, 6th, Bipartite ossification, Variation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation

'*' = Comment Present.

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
419	R05	Viab	Visc	4.42			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic vertebra, 2nd, Hemivertebra, Malformation Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 3rd, Hemicentric, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 6th, Hemicentric, Variation Skeletal - Body, Ribs, Rib, 2nd right, Absent, Malformation Skeletal - Body, Ribs, Rib, 6th left, Fused, Malformation * fused to 7th left rib Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Sternoschisis, Malformation
	R06	Viab	Visc	4.56			M	External, Body, Trunk, Gastroschisis, Malformation Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 4th, Hemicentric, Variation Skeletal - Body, Ribs, Rib, 4th right, Fused, Malformation * fused to 5th right rib
	R07	Viab	Skel	4.49			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic vertebra, 4th, Hemivertebra, Malformation Skeletal - Body, Ribs, Rib, Multiple Sites, Fused, Malformation Skeletal - Body, Ribs, Rib, 4th right, Absent, Malformation

'*' = Comment Present.

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
419	R08	Viab	Visc	2.69			M	External, Body, Trunk, Gastroschisis, Malformation Head, Head, Eye, Bilateral, Macrophthalmia, Malformation Visceral, Abdomen, Stomach, Absent, Malformation Visceral, Abdomen, Spleen, Absent, Malformation Visceral, Abdomen, Pancreas, Absent, Malformation Visceral, Abdomen, Intestines, Absent, Malformation Skeletal - Body, Vertebrae, Thoracic vertebra, 4th, Hemivertebra, Malformation Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Hemicentric, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 1st, Unossified, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 9th, Bipartite ossification, Variation Skeletal - Body, Ribs, Rib, Multiple Sites, Wavy, Variation Skeletal - Body, Ribs, Rib, 4th right, Fused, Malformation * fused to 5th right rib Skeletal - Body, Ribs, Rib, 6th right, Fused, Malformation * fused to 7th right rib Skeletal - Body, Ribs, Rib, 4th left, Absent, Malformation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Bipartite ossification, Variation
	R09	Viab	Skel	4.52			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 1st, Unossified, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 3rd, Hemicentric, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 8th, Hemicentric, Variation Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
419	R10	Viab	Skel	4.26			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Lumbar centrum, 2nd, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, Multiple Sites, Bipartite ossification, Variation Skeletal - Body, Vertebrae, Thoracic centrum, 6th, Hemicentric, Variation Skeletal - Body, Ribs, Rib, 1st right, Absent, Malformation
420								CL_Left 5 CL_Right 7 Gravid Uterus Wt (g) 81.88 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	5.25			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	5.30			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Sternebrae, Sternebrae, Multiple Sites, Misaligned, Variation
	L03	Viab	Visc	5.22			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.34			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Visc	5.75			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
420	R01	Viab	Skel	5.15			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 12th, Bipartite ossification, Variation
	R02	Viab	Visc	4.88			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	5.12			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Visc	5.52			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Skel	5.09			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R06	Viab	Skel	5.85			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
421								CL_Left 6 CL_Right 4 GravId Uterus Wt (g) 63.46 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Visc	4.88			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L02	Viab	Skel	3.52			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
421	L03	Viab	Visc	5.09			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L04	Viab	Skel	5.29			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, 14th left, Full supernumerary rib, Variation Skeletal - Body, Ribs, Rib, 14th right, Short supernumerary, Variation
	L05	Viab	Visc	4.82			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Skel	5.25			M	External, No Abnormalities Detected
	L06	Viab	Skel	5.25			M	Skeletal - Head, No Abnormalities Detected Skeletal - Body, Ribs, Rib, Multiple Sites, Wavy, Variation
	R01	Viab	Visc	5.37			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.50			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Skel	4.92			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

'*' = Comment Present.

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
422								CL_Left 7 CL_Right 7 Gravid Uterus Wt (g) 89.25 Pregnancy Type: Pregnant Early PM: No
	L01	Viab	Skel	5.46			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, Vertebrae, Thoracic centrum, 10th, Bipartite ossification, Variation
	L02*	Viab	Visc	5.40			M	Skeletal Elements Missing/Disarticulated (Artifact of Processing): paws, rear, bilateral External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L03	Viab	Skel	5.41			F	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
422	L04	Viab	Visc	4.98			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L05	Viab	Skel	5.28			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L06	Viab	Visc	4.94			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	L07	Viab	Skel	5.38			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Individual Fetal Data

Group: 4 900 mg/kg/day

Dam Number	Posn	Type	Exam Set	Fetal Wt g	C/R	Placental Wt	Sex	Observations
422	R01	Viab	Visc	4.93			F	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R02	Viab	Skel	5.53			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R03	Viab	Visc	5.39			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R04	Viab	Skel	5.60			M	External, No Abnormalities Detected Skeletal - Head, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected
	R05	Viab	Visc	5.53			M	External, No Abnormalities Detected Head, No Abnormalities Detected Visceral, No Abnormalities Detected Skeletal - Body, No Abnormalities Detected

Trade Secret
Unpublished Work
Copyright ©2010 E.I. du Pont de Nemours and Company

**Review of Glycolic Acid-mediated developmental toxicity in
experimental animal studies and their relevance to human
health**

Prepared by:

Brian Slezak, Ph.D., D.A.B.T.
Senior Research Toxicologist
DuPont Haskell Global Centers for
Health and Environmental Sciences
1090 Elkton Road, P.O. Box 50
Newark, DE 19714-0050

January 6, 2010

323806

Table of Contents

I. Introduction

- A. Substance Information/Chemical Physical Properties
- B. Uses of Glycolic Acid
- C. Regulatory Approval for Use and Reviews
- D. Current Classification of Glycolic Acid by ECB, Australia & DuPont (GHS/REACH).

II. Glycolic Acid Developmental Toxicity Hazard

- A. Summary of DuPont Studies with Glycolic Acid Technical Solution (70% Glycolic Acid) and Glypure® (>99% Glycolic Acid)

III. Relevance of these results to human health and classification of GA with respect to developmental toxicity

- A. Developmental Toxicity of Ethylene Glycol and its metabolite, Glycolic Acid: Key Events in the Mode of Action for Ethylene Glycol-Glycolic Acid-mediated Developmental Toxicity
 - 1. Metabolism of EG to GA
 - 2. Saturation of GA oxidation
 - 3. Distribution of GA to the embryo
 - 4. Disruption of development by GA
- B. Relevance to human health: Risk Assessments conducted outside of DuPont
 - 1. NICNAS risk assessment summary
 - 2. NTP-CERHR risk assessment summary
- C. Summary and DuPont's classification of Glycolic Acid

I. Introduction

The purpose of this document is to describe the currently available data on glycolic acid-mediated developmental toxicity, highlight species differences observed in response to glycolic acid (or a precursor chemical, ethylene glycol) exposure during development, and convey the relevance of these observations to human health. In addition, this document evaluates the potential classification of glycolic acid with respect to developmental toxicity and explains how the weight of evidence supports the conclusion that glycolic acid does not meet the criteria for classification.

The potential developmental toxicity of glycolic acid (GA) has been studied by DuPont and other groups employing varied experimental conditions. A recently conducted developmental toxicity study with 70% Glycolic Acid Technical Solution (via oral gavage in rats) was conducted at dose levels known to be associated with renal toxicity and close to a maternally lethal dose. Developmental toxicity was evident only at the highest dose tested (900 mg/kg/day) and consisted of reduced fetal weight and increased fetal malformations and variations. There was no evidence of developmental toxicity at 300 mg/kg/day (NOEL) or below. The results of this study on developmental toxicity are consistent with previously conducted rat oral gavage studies using a 70% Glycolic Acid Technical solution in a pilot developmental toxicity study and a main developmental toxicity study using 99% glycolic acid, with the exception of the absence of maternal toxicity observed in the most recent study at the highest dose. The most significant difference in the conduct of this study vs. previous studies was the use of a buffered dose solution (to pH 3.0) to comply with current animal welfare guidelines compared to dosing solutions in the previous two studies which were at or below a pH of 2.0. The study designs and corresponding results from the DuPont conducted studies with 70% Glycolic Acid Technical Solution and Glypure® (99% Glycolic Acid) are detailed in Section II: Developmental Toxicity Hazard of Glycolic Acid.

Given the potential impact of the interpretation of these results, it is critical to ensure that to the extent possible, the experimental design and animal model in which the data are generated should be of relevance to humans. Although the rat is the most commonly used rodent model for evaluation of potential maternal and developmental toxicity, a review of DuPont internal and external data and the published literature on ethylene glycol-mediated developmental toxicity provides evidence that the rat animal model may have significant limitations for evaluating the potential risk for GA-mediated developmental toxicity in humans. Review of the doses and more specifically the concentration of glycolic acid required in the blood to produce developmental toxicity show that such blood levels would be unattainable via the exposure routes to which humans are normally exposed to glycolic acid (dermal for consumer personal care products and inhalation/dermal for hard surface cleaning applications by industrial and consumer populations). This conclusion includes considerations of dermal absorption of glycolic acid and also the difference in physiology between rats and humans which contributes to the sensitivity seen using the rat animal model.

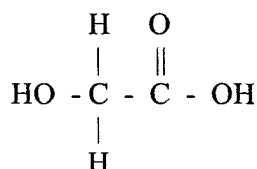
A. Substance Information/Physical Chemical Properties

Common Name: Glycolic Acid

Chemical Name: Acetic acid, hydroxy-

CAS Registry No.: 79-14-1

Chemical Structure:



Physical Properties:

Form:	Colorless, deliquescent crystals (Commercially available as a 70% aqueous solution)
Molecular Weight:	76.05
Boiling Point:	Decomposes at 100°C
Melting Point:	79-80°C
Specific Gravity:	1.27 g/mL @ 15.6°C (70% aqueous solution)
Vapor Pressure:	-----
Conversion Factors:	1 mg/L = 322 ppm; 1 ppm = 3.1 mg/m ³

B. Application/Uses of Glycolic Acid

Glycolic acid, also known as alpha-hydroxyacetic acid, is a colorless, odorless, crystalline solid that occurs widely in nature. It is found naturally in several edible fruits, vegetables, and meat products. Commercially used glycolic acid, however, is manufactured through various processes involving chemical synthesis and is found in a broad range of industrial and consumer products. Consumer product applications include removal of mineral scale and other cleaning applications, water treatment, and personal care products.

C. Regulatory Approvals for Use and Reviews

In the United States, glycolic acid has been approved by the U.S. Food and Drug Administration (FDA) as an indirect food additive. It has received approval from Health Canada and from the U.S. Environmental Protection Agency (EPA) for use in antimicrobial applications. Environmental and toxicology data have been reviewed by the

US EPA under the High Production Volume (HPV) Challenge program, and data provided by European industries are also available in the HPV-LPV Chemicals Information system. An extensive review and risk assessment has been conducted by the Australian Government that address uses of glycolic acid in cosmetic applications (NICNAS, 2000).

D. Current Classification of Glycolic Acid (Developmental Toxicity Endpoint)

-Not listed in Annex I of the Dangerous Substances Directive 67/548/EEC as a developmental/reproductive toxicant. [To the best of our knowledge, glycolic acid has not been reviewed by the EU and it has not been selected for review as a potential candidate for classification for toxicity to reproduction.]

- Not classified as a developmental toxicant by National Industrial Chemicals Notification and Assessment Scheme (NICNAS, 2000).

- Classified as *Not Likely to be a Human Developmental Toxin*. By the DuPont Acceptable Exposure Limit (AEL) Committee (12/20/99 and reaffirmed on 4/1/09).

II. Glycolic Acid Developmental Toxicity Hazard

A. Summary of DuPont Studies with 70% Glycolic Acid Technical Solution and Glypure® (>99% Glycolic Acid).

DuPont conducted a pilot developmental toxicity study using 70% Glycolic Acid Technical Solution (DuPont Report Number 96-95) in 1995. The Certificate of Analysis (COA) for this material reports that methoxyacetic acid (MAA, a known developmental toxicant) was measured at a level of 1.53% in the test material's impurity profile. For this study, groups of 8 time-mated CrI:CD®(SD) rats were administered formulations of this test substance in water once daily via oral gavage on gestation days (GD) 6-20 at daily dose levels of 0, 125, 250, 500, or 1000 mg/kg/day. Control group rats were dosed with water. The dose levels tested, 0, 125, 250, 500, and 1000 mg/kg/day, correspond to 0, 87.5, 175, 350, and 700 mg GA/kg/day, respectively. Additionally, these dose levels correspond to dose levels of 0, 1.9, 3.8, 7.7, or 15.3 mg/kg/day MAA at the same respective dose levels. The dose volume was 10 ml/kg for all groups. The formulation pH was not adjusted and was presumed to be between pH 1 and 2. During the in-life portion of the study, maternal clinical observations, body weights, and food consumption data were collected. On GD 21, all dams were euthanized and a gross external and visceral examination was performed. The uterus of each pregnant female was removed and the uterine contents were examined and described; all fetuses were removed and individually identified, weighed, sexed, and examined for external alterations. Approximately one-half of the fetuses were examined for soft tissue alterations; all fetuses were examined for skeletal alterations.

For this pilot study, maternal toxicity was demonstrated at 500 and 1000 mg/kg/day. At 1000 mg/kg/day, maternal effects included mortality, reduced maternal body weight and

food consumption parameters, and clinical signs of toxicity included, but were not limited to, abnormal gait/mobility, lung noise, salivation, and stained and wet fur. At 500 mg/kg/day, similar, yet markedly less severe maternal weight gain reductions and increased clinical signs of toxicity were observed. Developmental toxicity at 1000 mg/kg/day consisted of reduced mean fetal weight, increased embryo lethality, and increased fetal malformations and variations. At 500 mg/kg/day, developmental toxicity was limited to reduced fetal weight and increased fetal variations. There was no evidence of either maternal or developmental toxicity at 125 or 250 mg/kg/day.

This pilot study was followed by a main developmental toxicity in which Glypure® (99.6% GA) was tested (DuPont Report Number 191-96) in 1996. The level of MAA in this preparation was not measured, but was known to be < 0.4%. Doses of 0, 75, 150, 300, and 600 mg/kg/day were selected based on the previous pilot study results. Dose formulation pH was not adjusted and formulations were measured to be between pH 1.9-2.0 at 600 mg/kg/day and 2.0-2.1 at 300 mg/kg/day. During the in-life portion of the study, maternal clinical observations, body weights, and food consumption data were collected. On GD 21, all dams were euthanized and a gross external and visceral examination was performed. The uterus of each pregnant female was removed and the uterine contents were examined and described; all fetuses were removed and individually identified, weighed, sexed, and examined for external alterations. Approximately one-half of the fetuses were examined for soft tissue alterations; all fetuses were examined for skeletal alterations. The results of this main Glypure® study were consistent with the previous pilot study in that evidence of both maternal and developmental toxicity was observed at 300 and 600 mg/kg/day. Maternal toxicity consisted of reduced body weight and food consumption parameters at 600 mg/kg/day and increased clinical signs of toxicity at levels 300 and 600 mg/kg/day. Developmental toxicity at 600 mg/kg/day consisted of increased incidence of fetal malformations (fused ribs and/or vertebrae, absent ribs, hemivertebrae, abnormally fused and cleft/non-fused sternbrae) and/or variations (misaligned and incompletely ossified sternebra and vertebrae) and reduced mean fetal weight (13% lower than control) at 600 mg/kg/day. Developmental toxicity at 300 mg/kg/day consisted of increased incidence of fetal malformations (fused ribs and sternbrae).

In the most recent developmental toxicity study (DuPont-18011-841) conducted in 2008, 70% GA technical grade material was tested in rats. The COA for this material reports that methoxyacetic acid was measured at a level of 1% in its impurity profile. For this study, groups of 22 time-mated CrI:CD®(SD) rats were administered formulations of this test substance in deionized water by once-daily oral gavage on gestation days (GD) 6-20 at daily dose levels of 0, 100, 300, or 900 mg/kg/day. Control group rats were dosed with deionized water. The dose levels tested, 0, 100, 300, and 900 mg/kg/day, correspond to 0, 70, 210, and 630 mg GA/kg/day, respectively. Additionally, these dose levels correspond to dose levels of 0, 1, 3, or 9 mg/kg/day MAA at the same respective dose levels. The dose volume was 10 ml/kg for all groups. The formulations were buffered to pH 3 to comply with current animal welfare guidelines which specify that formulations administered by oral gavage should be prepared such that measured pH is between 3 and 9. The pH of the neat test material is approximately 0.1 and the unbuffered dosing

formulations ranged in pH from 1 to 2. The rationale for selecting pH 3 as the target formulation pH was to minimize potential alterations to the chemistry of the test material while also addressing animal welfare concerns.

During the in-life portion of the study, maternal clinical observations, body weights, and food consumption data were collected. On GD 21, all dams were euthanized and a gross external and visceral examination was performed. The uterus of each pregnant female was removed and the uterine contents were examined and described; all fetuses were removed and individually identified, weighed, sexed, and examined for external alterations. Approximately one-half of the fetuses were examined for soft tissue alterations; all fetuses were examined for skeletal alterations.

In this study, there was no clinical evidence of maternal toxicity but no detailed examination of the kidneys was performed so the possibility of renal damage, as reported in repeat dose studies, cannot be excluded. In a previous study at 1000 mg/kg bw GA, lethality had been observed in dams, so it is likely that maternal toxicity was present in the dams treated with 900 mg/kg bw in this study. Developmental toxicity was evident at 900 mg/kg/day and consisted of reduced mean fetal weight (10% lower than control) and increased fetal malformations and variations. Two litters at 900 mg/kg/day contained malformed fetuses. These malformations included absent and fused ribs, hemivertebrae, sternoschisis, gastroschisis, macrophthalmia, and absent stomach, spleen, pancreas, and intestines. In addition, there was an increased incidence of fetal variations, which included bipartite ossification of the thoracic and/or lumbar centrum, misaligned sternbrae, and supernumary ribs (short and/or full). There was no evidence of developmental toxicity at 300 mg/kg/day or lower.

The DuPont studies described above have identified similar developmental findings in the fetus using both a technical grade material and that of high purity. Combining this data with the published studies investigating glycolic acid's role in ethylene glycol-mediated developmental toxicity (described below) further supports the conclusion that MAA, as an impurity of the test materials used in these studies, is not considered to be a significant contributor to the developmental effects observed. Glycolic acid administration at very high dose levels results in very few clinical signs of toxicity right up to dose levels causing maternal lethality. Histopathological examinations show clear evidence of maternal renal damage at dose levels from 500 mg/kg upwards. It is thus clear that the usual clinical signs of toxicity in rat studies cannot be used to assess the degree of maternal toxicity induced by glycolic acid.

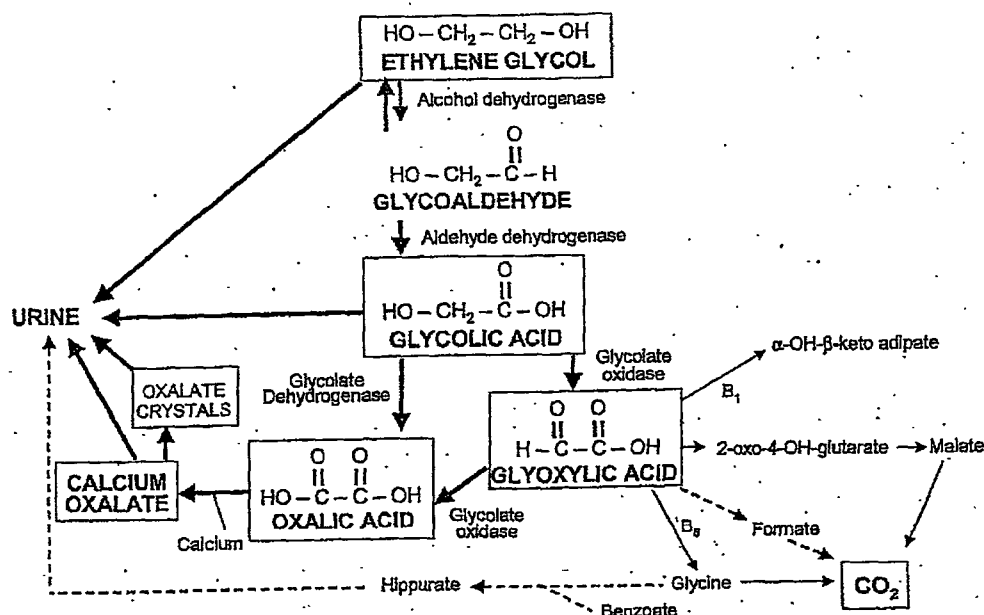
III. Relevance of these results to human health and classification of GA with respect to developmental toxicity

A. Developmental Toxicity of Ethylene Glycol and Glycolic Acid

The first step in the metabolic pathway of Ethylene Glycol (EG) in mammals involves the conversion of EG to GA via alcohol dehydrogenase/aldehyde dehydrogenase complex (see Figure 1). The metabolism of EG to GA has been observed in all species studied,

including rats, mice, dogs, rabbits, monkeys, and man. EG has pronounced species differences in its potential to elicit developmental toxicity, demonstrating developmental toxicity in rats but not in rabbits (Corley, 2005, Carney, 2008). EG is not currently listed in Annex I of the Dangerous Substances Directive 67/548/EEC as a developmental/reproductive toxicant. In addition, EG/GA-mediated developmental toxicity has been reviewed by the National Toxicology Program and the Center for the Evaluation of Risks to Human Reproduction (CERHR) (NTP-CERHR, 2004) and the National Industrial Chemicals Notification and Assessment Scheme (NICNAS, 2000), who have all concluded that the risks to humans under normal exposure conditions are negligible. The conclusions of each of these reviews are provided in this document in Section III, B.

Figure 1: Metabolic scheme for ethylene glycol in animals (Corley *et al.*, 2005).



A body of research summarized by NTP-CERHR (2004) reveals that EG has been demonstrated to be teratogenic in rodents given large oral bolus doses, but shows little to no developmental toxicity for non-bolus exposures (e.g., dermal or diet). In addition, GA has been identified as the metabolite of EG which is the proximate toxicant in the production of EG-mediated developmental toxicity in rats. Carney *et al* has proposed and, through several experiments, validated a threshold estimate for developmental toxicity in rats to be 2 mM (152 $\mu\text{g}/\text{ml}$) in the maternal blood (Corley *et al.*, 2005). NTP-CERHR (2004) indicated that 3 mM (228 $\mu\text{g}/\text{ml}$) was the threshold estimate in rats. Thus, understanding the developmental toxicity following exposure to EG (and through its metabolism to GA) and understanding the current classification of EG by regulatory authorities in terms of its developmental toxicity potential are relevant when conducting a

risk assessment and subsequently classifying GA's potential to mediate developmental toxicity in humans.

Corley *et al* (2005) described the four key events in the animal mode of action (MOA) for EG-GA mediated developmental toxicity (see Table 1): 1. Metabolism/conversion of EG to GA, 2. Saturation of GA oxidation. 3. Distribution of GA to the embryo and 4. Eventual disruption of development by GA. In the following sections, each key event is reviewed in further detail, along with a summary of the available literature and potential relevance of the data for humans.

Table 1: Key events in the animal MOA for developmental toxicity (Corley *et al.*, 2005).

Key events in the animal MOA for developmental toxicity		
Key event	Evidence in animals	Reference
1. Metabolism of EG to oxalic acid via GA	YES. Observed in all species studied (rats, mice, dogs, rabbits, monkeys, etc.)	Carney, 1994; Jacobsen et al., 1988; Thomas et al., 2003
2. Saturation of GA oxidation	YES. Shown in many species, including pregnant rats	Harris and Richardson, 1980; Marshall, 1982; Frantz et al., 1996a, 1996b, 1996c; Pottenger et al., 2001
3. Distribution of GA to the embryo	YES. In rats, GA levels in the embryo are 2-4x higher than those in maternal blood, likely due to ion trapping. In rabbits (nonresponsive species), GA levels are half those in maternal blood	Carney et al., 1998, 2002
4. Disruption of development by GA	YES. GA alters development in vitro and in vivo, but cellular/molecular MOA is unknown	Carney et al., 1996; Münley et al., 1999; Klug et al., 2001

Key Event 1: Metabolism of EG and GA.

As listed in Table 1, exposure to EG is equivalent to exposure to GA due to the well-characterized metabolism of EG to GA that has been observed in every species studied.

Key Event 2: Saturation of GA Oxidation

The second step (Saturation of GA oxidation) may lead to nonlinear accumulation of GA at high EG dose levels. Conversion of GA to its metabolites is the rate limiting step in the EG metabolic pathway (Figure 1). At low doses of EG, very little GA is present in blood or urine, but at high doses of EG (*e.g.*, gavage dose levels > 500 mg/kg in rats) approximately 20-40% of the EG dose is now present as GA (Corley *et al.*, 2005). Because saturation of GA oxidation is a key determinant of developmental toxicity, not only is the absolute dose critical but also the rate at which the dose is administered and/or absorbed. Dose rate has a bearing on human relevance because most human exposures to GA involve low dose rates, primarily by a route (dermal) characterized by very slow absorption.

In addition, Booth *et al* (2004) studied the *in vitro* metabolism of EG and GA using precision-cut tissue slices prepared from the livers of female Sprague Dawley rats, New Zealand white rabbits, and humans. There were qualitative differences in the metabolic profiles and quantitative differences in the formation of glycolic acid between the mammalian liver systems. There was on average 10-fold less glycolic acid produced by liver slices of rabbits compared with rats. With the human liver, the formation of glycolic acid was not detectable using tissue from 3 of 4 human donors. A low level of GA was detected in one liver slice incubation from the remaining subject, but only at one extended time point.

Liver slices prepared from rats, rabbits, and human subjects all metabolized GA to glyoxylic acid. Human liver tissue was most effective at further metabolizing GA to glyoxylic acid. The ratio of V_{max}/K_m , which represents the relative clearance of glycolic acid from liver tissue of the different species, was approximately 14:9:1 for human, rat, and rabbit liver tissue, respectively. These ratios indicated that liver tissue from human was the most effective of the three species for the transformation of GA to glyoxylic acid (and elimination via the urine). Hepatic clearance of GA *in vivo* would therefore be expected to be greater for human compared with that occurring for rat or rabbit. The precision-cut liver slice test system is considered to behave as a good model for xenobiotic metabolism in liver *in vivo*. Therefore, differences between species in rates and amounts of metabolism of glycolic acid are expected, by extrapolation, to occur *in vivo*. Thus, levels of GA, if formed *in vivo* following exposures to similar concentrations of GA, would be lower in humans than in rabbits and rats. These results caution against the direct extrapolation of the developmental toxicity observed in rodent to predict a response of exposure to GA in humans.

Key Event 3: Distribution of GA to the embryo

As for key event 3 (distribution of GA to the embryo), species-specific differences have been reported in the literature. Early in development the pH of mouse and rat embryos, as well as their exocoelomic fluid, is 0.2-0.4 units higher than that of maternal plasma, leading to accumulation of some acidic compounds in embryos due to ion trapping (Nau and Scott, 1986; Srivastava *et al.*, 1991). Ion trapping involves the diffusion of protonated weak acids into a compartment with a relatively higher pH. The weak acid becomes ionized, and thus, can no longer diffuse back across the compartment membrane. Weak acid ion trapping in organogenesis stage rodent development has been documented for a number of compounds, including methoxyacetic acid, butyric acid, propionic acid, and GA (Brown, 1987; Carney *et al.*, 2002), resulting in embryonic and/or exocoelomic fluid concentrations that are two-to-four times higher than those of maternal blood. Later in development, the pH of rodent embryo blood is lower than maternal blood, and acidic drugs are more concentrated in maternal blood supply (Nau and Scott, 1986; Srivastava *et al.*, 1991). In rabbits, the yolk sac cavity (See Figure 2) fluid that surrounds the GD9-12 embryo is more acidic with respect to maternal blood; thus, the pH gradient is in the opposite direction to that of rats (Tornesi and Carney, 2003). In humans, the pH of coelomic fluid is 0.2 PH units lower than that of maternal

blood, while amniotic fluid pH is similar to maternal blood pH until 10 weeks of gestation. In summary, if embryonic dosimetry were based solely on these pH gradients, one would expect weak acids such as GA to accumulate in early rodent embryos, while rabbit, monkey, and human embryos would accumulate weak bases in early pregnancy.

Carney et al., (2008) used toxicokinetic and whole embryo culture (WEC) studies in the rabbit to investigate the reason for species differences seen in EG/GA-mediated developmental toxicity. The authors hypothesized the lack of teratogenicity in the rabbit is due to toxicokinetic factors resulting in lower exposure of the rabbit embryo to GA. The studies were conducted using gestation day 9 New Zealand White rabbits. This data was compared to similar data generated and published previously in rats under similar doses and at an equivalent stage of embryo development.

In the toxicokinetic study, maximal levels of GA in rabbit were lower in the maternal blood and in the embryo (46% and 10%, respectively), as compared to those reported in pregnant rats. The toxicokinetic profile suggested that the lower GA levels in rabbits were due to a slower rate of maternal metabolism of EG to GA, slow uptake of GA into the yolk sac cavity fluid which surrounds the embryo, and a negligible transfer via the visceral yolk sac placenta. In the WEC study, exposure of rabbit embryos to concentrations of GA up to 12.5 mM was without effect on measured developmental parameters (embryo viability, growth, or morphological development). This result is in contrast to the reported developmental effects observed in rat WEC at > 3 mM GA. The study demonstrated a 10-fold difference between rabbits and rats in embryonic exposure to GA following identical doses of EG at an equivalent stage of gestation. The Authors conclude: "...the lower exposure of the rabbit embryo to GA appears to be due to quantitative differences in rates of metabolism, and to fundamental differences in disposition of GA to the embryo." Differences between rat, rabbit, and human embryos are illustrated in Figure 2 (from Carney et al, 2008). The in vivo differences in GA kinetics in maternal blood are consistent with those reported by Booth et al (2004) using in vitro liver slices to demonstrate differences in metabolism, showing that rabbits metabolize EG to GA at a slower rate than rats, while human liver metabolized EG even more slowly than the rabbit (described in the section above).

Figure 2: Schematic comparison of rabbit, human, and rat embryos.

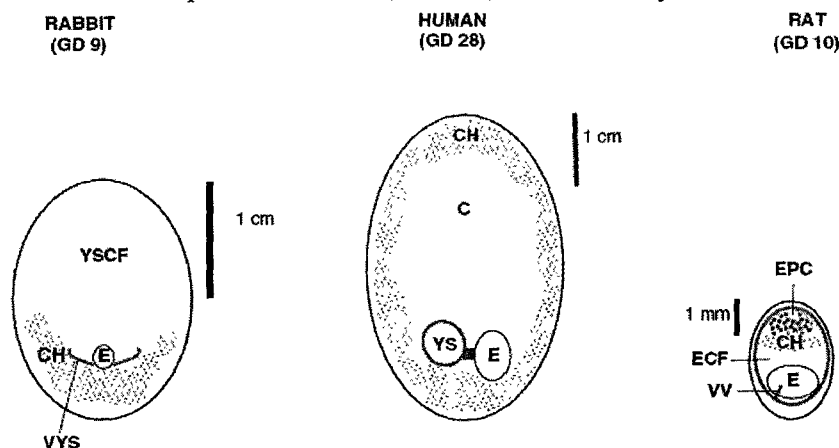


Fig. 5. Schematic of gestation day (GD) 9 rabbit conceptus, GD 10 rat conceptus, and early human embryo (approx. GD 28). Embryos are of comparable stages of development; scales are approximated. Rabbit and human embryos at this stage are not enclosed by a yolk sac and are bathed in relatively large volumes of extraembryonic fluids (YSCF—rabbit; celomic fluid—human) which are acidic with respect to maternal blood. In contrast, rat embryos are enclosed within the VYS and are bathed in a relatively small volume of ECF, which is alkaline with respect to maternal blood. Abbreviations: CH = chorion; E = embryo; ECF = exocoelomic fluid; EPC = ectoplacental cone; VYS = visceral yolk sac; YS = yolk sac; YSCF = yolk sac cavity fluid—rabbit; C = celomic fluid—human; VV = vitelline vessel).

The authors indicate that integration of these findings with published human data suggest that the rabbit is the more relevant model for human EG (and subsequently GA) exposure, based on the negligible role of the rabbit visceral yolk sac in placental transfer (humans lack a visceral yolk sac) and similar rates of EG metabolism and extraembryonic fluid turnover. Carney et al., (2008) demonstrated that the insensitivity of the rabbit to EG appears to be explained by toxicokinetic factors, specifically metabolism and disposition to the embryo, leading to a 10-fold lower exposure of the rabbit embryo to GA relative to rat embryos in pregnant rats given an identical dose of EG.

Carney et al., (2008) concludes: "Interpretation of these data in comparison to knowledge of human toxicokinetics and mechanisms of toxicant disposition to the embryo suggest that the rabbit is the more relevant model for evaluating the potential effects of EG exposure during early gestation in the human." In the rabbit, GA (via EG in vivo exposure) or direct application of GA (in vitro) to WEC, does not demonstrate developmental toxicity.

Key Event 4: Disruption of development

The cellular/molecular mechanism of action by which GA may alter development the developing embryo is unknown.

B. Relevance to Human Health: Risk Assessments conducted outside of DuPont.

1. National Industrial Chemicals Notification and Assessment Scheme (NICNAS) risk assessment of Glycolic Acid.

The following excerpt is from NICNAS, 2000. Glycolic Acid: Priority Existing Chemical Assessment Report No. 12. **This independent risk assessment concludes a lack of potential for GA-mediated developmental toxicity in humans.**

Public Exposure

The public will be exposed from skin contact with a variety of cosmetic products such as face creams, body lotions and gels, scrubs, shampoos, conditioners and skin peeling solutions. Inhalation exposure may also occur, but vaporisation from cosmetic formulations would be very low, and public exposure via this route is expected to be negligible.

In reasonable worst-case scenarios, the maximum skin exposure is calculated as 10 mg/kg in clients undergoing treatment in beauty salons and 28 mg/kg/day in consumers using glycolic acid cosmetics at home, based on the following estimates of exposure:

- In beauty salons, a single treatment of the arms, legs and backs of the hands and feet (an area of approximately 7800 cm²) with two applications of a 40% gel in an amount of 1 mg/cm² of the product per application, massaged into the skin, and then rinsed off; and*
- For use at home, twice daily application of 0.8 g of a 10% face cream and of 7.5 g of a 10% body lotion massaged into the skin and left on without being rinsed off.*

In both cases, it is assumed that the exposed person has a body weight of 60 kg. The NOAEL based on a 3-month oral rat toxicity test and on maternal and developmental toxicity in pregnant rats given oral bolus doses of glycolic acid is 150 mg/kg/day. As such, the calculated margin of exposure (the NOAEL divided by the estimated human exposure) for the above scenarios would be in the range of 5.4-15, based on external exposure.

Based on the calculations detailed in Appendix 2, section A2.2, the estimated maximum systemic absorption in reasonable worst-case scenarios are 4.7 mg/kg on the day of a salon treatment and 3.4 mg/kg/day for home-use. Exposure margins calculated from these estimates for systemic uptake range from 32-44.

Absorption through the skin is slower than absorption from the intestine and therefore would be expected to lead to lower peak blood levels. Although experimental data are not available, it is possible to estimate the blood levels of glycolic acid from percutaneous absorption of the chemical in humans and

compare them to the estimated blood levels from ingestion of doses that represent a reliable NOAEL in animals in vivo. This can be achieved by means of a simple, one-compartment kinetic model based on the available human and animal data relating to the absorption, elimination and distribution of the chemical (for details, see Appendix 2, section A2.2). The modeling indicates that in the skin exposure scenarios outlined above, blood levels would peak at 2.6 mg/L and 2.5 mg/L respectively. In normal adult subjects, blood levels of glycolic acid (originating predominantly from dietary intake) range from 0.1-0.6 mg/L (see Section 9.2). By comparison, peak blood levels in animals are estimated at 130 mg/L for oral administration of 150 mg/kg/day, which is the NOAEL obtained in a well-conducted 3-month oral rat toxicity test as well as the NOAEL based on maternal and developmental toxicity in pregnant rats given oral bolus doses of glycolic acid on day 7-21 of gestation. Based on the estimated peak blood levels of glycolic acid, the calculated margin of exposure is 50 for beauty salon and 52 for at-home applications.

As a rule, for chemicals that are widely used by the general population a margin of exposure <100 is an indication that problems may arise. However, when considering the significance for risk of the exposure margins referred to above, the following particulars should be taken into account:

- The highest internal exposure and estimated peak blood level are in consumers undergoing treatment in beauty salons which is taken at intervals of one to several weeks. A NOAEL for single exposures in rats is not available but is likely to be higher than 150 mg/kg. As such, the true margins of exposure are likely to be higher than the estimates provided above.*
- The target organs for toxicity of glycolic acid in the rat are the kidney and, to a lesser extent, the liver. Studies of a number of cases of human intoxication with ethylene glycol indicate that kidney damage in humans is absent or slight at plasma concentrations of glycolic acid below 760 mg/mL and significant liver effects have not been recorded.*
- The developmental effects in rats are aggravated by the metabolic acidosis induced by oral bolus doses of glycolic acid solutions at their natural pH. By contrast, all cosmetic products with glycolic acid for salon or consumer use are pH-adjusted and only a part of the content of glycolic acid is present as undissociated acid. Moreover, absorption of glycolic acid through the skin is slower than from the gastro-intestinal tract and therefore less likely to exhaust the physiological mechanisms that maintain the acid-base balance of the body.*

As such, it is concluded that the possibility of systemic and/or developmental toxicity in humans is remote and that normal professional and domestic use of cosmetic products containing glycolic acid is unlikely to present a significant risk to public health.

In terms of potential classification of Glycolic acid as a developmental toxicant, NICNAS indicated that statistically significant developmental toxicity occurred at doses of 332 mg/kg/day glycolic acid (oral exposure in rats). This dose is assessed to be high as they correspond to an internal dose that is estimated to be unattainable in humans exposed to glycolic acid by skin contact or inhalation.

NICNAS Classification. Based on the above, glycolic acid is not classified for developmental toxicity.

2. NTP-CERHR Expert Panel report on the reproductive and developmental toxicity of ethylene glycol

The following excerpt is from NTP-CERHR, 2004. This independent risk assessment reaches similar conclusions as NICNAS (and DuPont) as to the lack of potential for GA-mediated developmental toxicity in humans.

Glycolic acid or one of its metabolites or metabolic acidosis is the most likely cause of developmental toxicity following exposure of rodents to ethylene glycol.

It is evident that glycolic acid metabolism is saturated at the bolus doses in rats required to produce developmental toxicity (1000 mg/kg bw). It appears that in rats, maternal blood glycolic acid concentrations must be at least 3 mM for developmental effects to ensue. Developmental toxicity was not observed in rabbits orally exposed to EG at doses associated with severe maternal toxicity. Rabbits demonstrated no developmental toxicity following gavage exposure to doses as high as 2000 mg/kg bw per day on gd 6-19, as noted by a lack of malformations, prenatal deaths, or decreased in fetal weights. Thus, the data were sufficient to demonstrate a lack of developmental toxicity in rabbits following oral gavage throughout organogenesis at doses less than or equal to 2000 mg/kg bw per day.

The Expert Panel is confident that these developmental toxicity data are useful in judging the hazard to humans because the doses tested far exceeded the doses relevant to humans based on knowledge of absorption, distribution, metabolism, and excretion in rats, mice, and humans. However, it is recognized that the rat and mouse models are possibly more sensitive than humans because of the dependence of the species on the inverted yolk sac placenta, which is not present in humans.

Much of the toxicokinetic data, especially that which demonstrates a metabolic threshold, were developed in rats. The Panel finds that these data are relevant to humans based upon the likelihood that humans will also exhibit saturation of ethylene glycol and glycolic acid metabolism. In fact, a single in vitro study provides kinetic constants for the saturable metabolism of glycolic acid in humans.

This evidence suggests that human metabolism of glycolic acid saturates at a four-fold lower concentration than in the rat.

Available data from rat studies suggest that oral doses associated with developmental toxicity (1000 mg/kg bw) are greater than doses associated with renal toxicity (500 mg/kg bw).

Developmental toxicity, and evidence of some renal toxicity, are observed in rodents at doses that exceed saturation of glycolic acid metabolism, which clearly occurs at 500 mg/kg bw in rats. Limited human in vitro data suggest that saturation of glycolic acid metabolism occurs at approximately 125 mg/kg bw, but saturation is expected to require much higher doses for slower dose-rate (non-bolus) exposure or for routes characterized by poor absorption (e.g. dermal). The Panel believes that ethylene glycol exposures resulting in blood levels below the level of saturation should not result in hazard associated with developmental toxicity in humans.

The Expert Panel judges the likelihood of adverse developmental toxicity in the humans [using industrial exposure scenarios compared to the dose required for saturation of EG/GA metabolism in humans] to be of negligible concern.

C. Summary and DuPont's Classification of Glycolic Acid.

Published data pertaining to the distribution of GA to the embryo revealed that a possible mode of action by which GA-mediated fetal effects occur is via intra-amniotic ion-trapping mediated by a pH gradient leading to higher intra-amniotic ion concentrations. The physiologic differences in pH between the rat maternal and fetal compartments drive the gradient such that direct embryofetal exposures are potentiated. In contrast, the physiologic differences in the human maternal and fetal environments are reversed relative to rats and, therefore, direct embryofetal exposure to GA may be substantially reduced. (Carney *et al*, 2004). Carney *et al* (2008) further characterized the differences between rats and rabbits (and humans) by concluding that the insensitivity of the rabbit to EG appears to be explainable by toxicokinetic factors, specifically metabolism and disposition to the embryo, leading to a 10-fold lower exposure of the rabbit to embryo to GA relative to pregnant rats given an identical dose of EG. Interpretation of these data in comparison to knowledge of human toxicokinetics and mechanisms of toxicant disposition to the embryo suggest that the rabbit is the more relevant model for evaluating the potential effects of EG (and subsequently GA) exposure during early gestation in the human. It is reasonable to assume that, in the rabbit, GA would not be expected to be a developmental toxicant. This assumption may be reached by the weight of evidence available for GA through both indirect in vivo exposure (via metabolism of EG to GA) or direct application of GA (in vitro exposure) to whole embryo cultures. In both of these exposure conditions GA is not a developmental toxicant in rabbits.

In addition, it is clear that high doses and dose rates that saturate GA oxidation are required for developmental effects. The doses required to saturate GA oxidation have been assessed as corresponding to an internal dose that is estimated to be unattainable in humans exposed to glycolic acid by skin contact and/or inhalation, leading to GA not being classified for developmental toxicity (NICNAS, 2000). The NTP-CERHR Expert Panel also indicated that the dose required to reach potential saturation of glycolic acid metabolism in humans is 125 mg/kg/day. Through exposure patterns described in the exposure assessment of this document, it can be reasonably concluded that reaching this level of exposure in humans is highly unlikely.

Further information questioning the relevance to humans of GA-mediated developmental toxicity in rats are physiologic differences in pH between the maternal and fetal compartments of rabbits (a non responsive species to EG in developmental toxicity studies) compared to rats (a responsive species to EG in developmental toxicity studies). Rabbits are more closely aligned with the human physiologic situation relative to this parameter. The NTP-CERHR Expert Panel also recognized that the rat and mouse models are possibly more sensitive than humans because of the dependence of the species on the inverted yolk sac placenta, which is not present in humans. In addition, studies using precision-cut liver slices maintained in dynamic organ culture have demonstrated the relative clearance of GA from liver tissue was approximately 14:9:1 for human, rat, and rabbit liver, respectively. The tissue slice model is considered to be good predictors of metabolism by liver tissue *in vivo*. The results of the Booth *et al* paper indicate that the levels of glycolic acid, if formed *in vivo*, following exposures to similar concentrations of ethylene glycol, would be lower in humans than rabbits and rats. Therefore, one could also assume that less GA would be available to the fetus in humans compared to rats and rabbits. As this information was published in 2004, the Booth study was not included in the NICNAS document demonstrating a potential difference between man and rat in metabolism (and elimination) of GA.

In addition, NICNAS (National Industrial Chemicals Notification and Assessment Scheme) of Australia has also concluded that the developmental toxicity seen in experimental animals is not relevant to humans. This conclusion is supported by the observation that blood levels of glycolic acid in humans needed to reach levels equivalent to those demonstrating effects in experimental animals are deemed unattainable.

The sum of these findings suggests the rat is not the most relevant animal model for assessing potential risk of GA-mediated developmental toxicity in humans and caution against the direct extrapolation of GA-mediated developmental toxicity observed in rodents to predict the response in humans. This information also supports the current classification of GA by NICNAS and the ECB (not classified as a developmental toxicant).

Based on the published information and assessment described in the enclosed Review document, with a focus on the relevance of the observed effect towards humans, **DuPont's current position on classification of glycolic acid is unchanged. DuPont does not classify glycolic acid as a developmental toxicant.** DuPont concludes that

there is no need to change GHS or REACH classification of GA based on the most recent study. There is no need to change MSDS beyond wording pertaining to maternal toxicity and no further animal studies are recommended at this time.

References

1. Booth ED, Dofferhoff, O., Boogaard P.J. Watson W.P. (2004). Comparison of the metabolism of ethylene glycol and glycolic acid *in vitro* by precision-cut tissue slices from female rat, rabbit and human liver. *Xenobiotica*, 34:1: 31-48.
2. Brown, N. (1987). Teratogenicity of carboxylic acids: distribution studies in whole embryo culture. In: Nau H, Scott WJ Jr editors. *Pharmacokinetics in teratogenesis*. Vol II. Boca Raton: CRC Press, 154-163.
3. Carney, E.W., Freshour, N.L., Dittenber, D.A., and Dryzga, M.D. (1999). Ethylene Glycol Developmental Toxicity: Unraveling the Roles of Glycolic Acid and Metabolic Acidosis. *Toxicological Sciences* **50**, 117-126
4. Carney, E.W., Liberacki, A.B., Tornesi, B, *et al.* (2002). Ethylene glycol kinetics in pregnant rats: differences between slow and fast dose-rate exposures. *Toxicologist* 66 (Suppl 1), 139.
5. Carney, E.W., Scialli, A.R., Watson, R.E., DeSesso, J.M. (2004). Mechanisms Regulating Toxicant Disposition to the Embryo during Early Pregnancy: An Interspecies Comparison. *Birth Defects Research (Part C)* 72, 345-360.
6. Carney EW., Tornesi B., Markham DA., Rasoulpour RJ., Moore, N. (2008). Species-Specificity of Ethylene Glycol-induced Developmental Toxicity: Toxicokinetic and Whole Embryo Culture Studies in the Rabbit. *Birth Defects Research (Part B)* 83:573-581.
7. Corley, R., Meek, ME., Carney EW. (2005). Mode of Action: Oxalate crystal-induced renal tubule degeneration and glycolic acid-induced dysmorphogenesis-renal and developmental effects of ethylene glycol. *Critical Reviews in Toxicology*. 35:691-702.
8. DuPont Haskell. (1995). Pilot Developmental Toxicity Study of 70% Glycolic Acid Technical Solution in Rats. Unpublished Data. DuPont Haskell DuPont-HLR 96-95. Work Request Number (WR) 10042-001
9. DuPont Haskell. (1996). Developmental Toxicity Study of Glycolic Acid in Rats. DuPont Haskell DuPont-HLR 191-96. Work Request Number (WR) 10492-001

10. DuPont Haskell. (2008). (H28746): 70% Glycolic Acid Technical Solution: Developmental Toxicity Study in Rats. Unpublished Data. DuPont Haskell DuPont-18011-841. Work Request Number (WR) 18011-841.
11. Jauniaux, E., Gulbis, B. (1994). Relationship between protein concentrations in embryological fluids and maternal serum and yolk sac size during human early pregnancy. *Hum Reprod* 9, 161-166.
12. Nau, H., Scott, W.J. Jr. (1986). Weak acids may act as teratogens by accumulating in the basic milieu of the early mammalian embryo. *Nature* 323, 276-278.
13. NTP-CERHR (2004) NTP-CERHR (National Toxicology Program- Center for the Evaluation of Risks to Human Reproduction) Expert Panel report on the reproductive and developmental toxicity of ethylene glycol. *Reproductive Toxicology* 18:457-532.
14. Srivastava, M., Collins, M.D, Scott, W.J. Jr, *et al* (1991). Transplacental distribution of weak acids in mice: accumulation in compartments of high PH. *Teratology* 43, 325-329.
15. Tornesi, B., Carney, E.W. (2003). Changes in pH gradients, protein and osmolarity of the rabbit conceptus during gestation (GD) 9-12. *Birth Defects Res Part B Dev Reprod Toxicol* 68, 262.
16. Wells, M.Y., Decobecq-CP-M, Decouvelaere DM, *et al.* (1999). Changes in clinical pathology parameters during gestation in the New Zealand White rabbit. *Toxicol Pathol* 27, 370-379.