

Experiment Number: 93027-41
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: Rat/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)
CAS Number: 94-75-7

Date Report Requested: 10/20/2014
Time Report Requested: 02:24:33
First Dose M/F: NA / NA
Lab: BAT

C Number: C93027C
Lock Date: 06/12/1996
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Male
PWG Approval Date: NONE

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First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear CI	1										1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Mineralization				1							1 1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy		1		1		1	1	1	1		6 1.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Hypertrophy, Focal	2										1 2.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10		
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic			1	3	1	1	1		3	2	3	8	1.9
Prostate	+	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic			1									1	1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	+	10	

Hematopoietic System

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

Integumentary System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
Maxilla, Inflammation, Chronic								3			1 3.0

Nervous System

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

Respiratory System

Larynx											1
Lung	+	+	+	+	+	+	+	+	+	+	10
Alveolus, Infiltration Cellular, Histiocyte										1	1 1.0
Hemorrhage			2								1 2.0
Infiltration Cellular, Histiocyte				1							1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10

Special Senses System

Lacrimal Gland											1
----------------	--	--	--	--	--	--	--	--	--	--	---

Urinary System

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 First Dose M/F: NA / NA
 Lab: BAT

HSD Rat Male
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0		2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
	1	2	3	4	5	6	7	8	9	0									0		
Kidney	+	+	+	+	+	+	+	+	+	+										10	
Nephropathy	1		1				1	1	2	1										6 1.2	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+										10	

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 + ..Tissue examined microscopically
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First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
17 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mononuclear CI				1							1	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	2	1	1	1	1	1		2		1	8	1.3

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Zona Glomer, Vacuolization Cytoplasmic			1								1	1.0

General Body System

NONE

Genital System

Preputial Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic	3	2	2	2	2	1	3	3	2	3	10	2.3
Testes	+	+	+	+	+	+	+	+	+	+	10	

Hematopoietic System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X ..Lesion present

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Lab: BAT

**HSD Rat Male
17 PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Corticomed Jct, Renal Tubule, Regeneration			1								1 1.0
Nephropathy	1	1	2	2		1	1	1	1	1	9 1.2

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Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)

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Date Report Requested: 10/20/2014

Time Report Requested: 02:24:33

First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
83 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	3	3
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	2	1	1		1		2		1		6	1.3

Cardiovascular System

NONE												
Endocrine System												
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Zona Glomer, Vacuolization Cytoplasmic							2				1	2.0

General Body System

NONE												
Genital System												
Preputial Gland	+	M	+	+	+	+	+	+	+	+	9	
Inflammation, Chronic	1		3	1	1	3		3		3	7	2.1
Testes	+	+	+	+	+	+	+	+	+	+	10	

Hematopoietic System

NONE											
Integumentary System											

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First Dose M/F: NA / NA

Lab: BAT

**HSD Rat Male
83 PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	3	3
	1	2	3	4	5	6	7	8	9	0

*TOTALS

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney + + + + + + + + + + 10

Corticomed Jct, Renal Tubule, Regeneration 1 1 1 1 1 5 1.0

Nephropathy 2 1 1 1 1 1 1 1 1 9 1.1

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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CAS Number: 94-75-7

Date Report Requested: 10/20/2014

Time Report Requested: 02:24:33

First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	1	
	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic			1								1 1.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Mineralization	1	1	1				1	2		1	6 1.2

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Hypertrophy, Focal				2							1 2.0
Zona Glomer, Vacuolization Cytoplasmic	2										1 2.0

General Body System

NONE

Genital System

Preputial Gland	+	+	+	+		+	+	M	+	+	8
Inflammation, Chronic	4	2	2	3		3			3	3	7 2.9
Testes	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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First Dose M/F: NA / NA

Lab: BAT

**HSD Rat Male
250 PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ 1

Hemorrhage

3 1 3.0

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + 10

Corticomed Jct, Renal Tubule, Regeneration

1 1 1 1 1 5 1.0

Nephropathy

1 1 1 1 1 1 1 1 1 1 10 1.0

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First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
750 PPM

| | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

Alimentary System

| | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | 10 | |
| Infiltration Cellular, Mononuclear Cl | | | | | | 1 | | | | | 1 | 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 | |
| Acinar Cell, Atrophy | | 2 | | | | | | | | | 1 | 2.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 | |
| Mineralization | 2 | 1 | | 1 | 1 | 1 | 3 | 2 | 2 | 1 | 9 | 1.6 |

Cardiovascular System

NONE

Endocrine System

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 | |
| Zona Glomer, Vacuolization Cytoplasmic | | | | | | | | | 1 | | 1 | 1.0 |

General Body System

NONE

Genital System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Preputial Gland | + | + | + | + | + | + | + | + | M | + | 9 | |
| Inflammation, Chronic | 3 | 2 | | 2 | 3 | 2 | | | | 2 | 6 | 2.3 |
| Testes | + | + | + | + | + | + | + | + | + | + | 10 | |

Hematopoietic System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 93027-41

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)

CAS Number: 94-75-7

Date Report Requested: 10/20/2014

Time Report Requested: 02:24:33

First Dose M/F: NA / NA

Lab: BAT

**HSD Rat Male
750 PPM**

| | | | | | | | | | | |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

NONE
Integumentary System
 NONE
Musculoskeletal System
 NONE
Nervous System
 NONE
Respiratory System
 NONE
Special Senses System
 NONE
Urinary System

| | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
| Corticomed Jct, Renal Tubule, Regeneration | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | | 2 | 9 1.4 |
| Nephropathy | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 7 1.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 93027-41

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)

CAS Number: 94-75-7

Date Report Requested: 10/20/2014

Time Report Requested: 02:24:33

First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
1250 PPM

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | 10 | |
| Clear Cell Focus | | | | | | | X | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 | |
| Mineralization | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 9 1.2 |

Cardiovascular System

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|----|-------|
| NONE | | | | | | | | | | | | |
| Endocrine System | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 | |
| Zona Glomer, Vacuolization Cytoplasmic | | | | | | | 2 | | | | | 1 2.0 |

General Body System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| NONE | | | | | | | | | | | | |
| Genital System | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Inflammation, Chronic | 2 | 3 | | 2 | 3 | 3 | | 4 | 3 | 2 | | 8 2.8 |
| Testes | + | + | + | + | + | + | + | + | + | + | 10 | |

Hematopoietic System

| | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|
| NONE | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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Experiment Number: 93027-41

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)

CAS Number: 94-75-7

Date Report Requested: 10/20/2014

Time Report Requested: 02:24:33

First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
1250 PPM

| | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

Eye

+ 1

Urinary System

Kidney + + + + + + + + + + 10

Corticomed Jct, Renal Tubule, Regeneration 2 2 2 2 2 1 2 2 2 2 10 1.9

Nephropathy 1 1 1 1 4 1.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Route: DOSED FEED

Species/Strain: Rat/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)

CAS Number: 94-75-7

Date Report Requested: 10/20/2014

Time Report Requested: 02:24:33

First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
2500 PPM

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |
| Mineralization | 1 | | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 9 1.4 |

Cardiovascular System

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | 1 | | | | | | | 1 | | 2 | 3 1.3 |

Endocrine System

| | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
| Zona Glomer, Vacuolization Cytoplasmic | | | | | | | 2 | | 3 | | 2 2.5 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 |

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Experiment Number: 93027-41

Test Type: 90-DAY

Route: DOSED FEED

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CAS Number: 94-75-7

Date Report Requested: 10/20/2014

Time Report Requested: 02:24:34

First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
2500 PPM

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

*TOTALS

| | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | M | 9 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| General Body System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Genital System | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | 10 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | 10 | |
| Inflammation, Chronic | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 10 | 2.6 |
| Prostate | + | + | + | + | + | + | + | + | + | + | 10 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | 10 | |
| Testes | + | + | + | + | + | + | + | + | + | + | 10 | |
| Atrophy | | | | | | | | | | 3 | 1 | 3.0 |
| Hematopoietic System | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 10 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 | |
| Integumentary System | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 93027-41

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/HSD

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CAS Number: 94-75-7

Date Report Requested: 10/20/2014

Time Report Requested: 02:24:34

First Dose M/F: NA / NA

Lab: BAT

HSD Rat Male
2500 PPM

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|--|---|---|---|---|---|---|---|---|---|---|---------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | + | + | + | + | + | + | + | + | + | + | 10 |
| Musculoskeletal System | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | 10 |
| Nervous System | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | 10 |
| Respiratory System | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | 10 |
| Hemorrhage | | | 2 | | | | | | | | 1 2.0 |
| Inflammation | | | | | | | 3 | | 1 | | 2 2.0 |
| Inflammation, Chronic | 3 | | | | | | | | | | 1 3.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | 10 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 10 |
| Special Senses System | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
| Corticomed Jct, Renal Tubule, Regeneration | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 10 2.7 |
| Nephropathy | 1 | | | | | | | 1 | | | 2 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 10 |

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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2) Mild 4) Marked

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Route: DOSED FEED

Species/Strain: Rat/HSD

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Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)

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Time Report Requested: 02:24:34

First Dose M/F: NA / NA

Lab: BAT

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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2) Mild 4) Marked

Experiment Number: 93027-41

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Peroxisome project (2,4-Dichlorophenoxyacetic acid)

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Time Report Requested: 02:24:34

First Dose M/F: NA / NA

Lab: BAT

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1) Minimal 3) Moderate

2) Mild 4) Marked