

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

F1_R8

C Number:	C20304		
Lock Date:	10/12/2006		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25022 ACCK	25021 TSAC	25020 NATD
	25019 MSAC	25018 DACC	
Removal Date Range:	ALL		
Treatment Groups:	Include 001 0 UG/KG	Include 004 100 UG/KG	Include 005 220 UG/KG
	Include 006 460 UG/KG	Include 007 1000 UG/KG	Include 008 4600 UG/KG
	Include 009 4600 UG/KG STOP		
Study Gender:	Female		
TDMSE Version:	2.0.0		

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	7	6	7	6	6	5	7	7	6	7	3	6	7	6	2	6	5	7	7	5	7	7	7	4					
	1	3	5	3	5	6	1	3	3	9	3	2	6	3	5	9	2	7	3	3	0	3	0	3	9					
	9	3	8	5	1	9	6	4	3	2	3	0	2	3	2	1	4	5	3	4	3	5	1	5	5					
.....
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 UG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
	1	6	7	8	9	0	1	2	3	4	5	6	6	7	8	9	0	6	7	8	9	0	1	2	3	4	4	4	4	4

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

14. Eosinophils qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

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1-4 Lesion qualified as

1-4: Lesion qualified as:

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CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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

† Tissue examined microscopically

- ✗ Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-1 Lesion qualified as:

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
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† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

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1-4. Lesion qualified as:

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x .. Lesion present

| .. Insufficient tissue

M Missing tissue

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1-4 Lesion qualified as:

1-4: Emission qualified as:

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X .. Eosin present
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CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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

+ Tissue examined microscopically

x Lesion present

| Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

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1-4 Lesion qualified as:

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females (cont...)

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

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

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| .. Insufficient tissue

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	4	7	4	3	5	6	7	7	5	5	7	7	7	4	7	5	6	5	5	7	5	7	7	7	7	4				
	9	3	4	7	0	1	3	3	6	1	3	3	3	4	3	6	5	0	7	3	9	3	3	3	3	4				
	5	5	3	8	3	7	3	5	1	6	4	5	3	0	4	1	8	3	5	5	3	3	3	3	3	6				
	
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 UG/KG	ANIMAL ID	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	females (cont...)	
4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	6	7	8	9	0	6	7	8	9	0	6	7	8	

Proteinosis																													
Alveolar Epithelium, Hyperplasia																													
Alveolar Epithelium, Metaplasia, Bronchiolar																													
Alveolus, Infiltration Cellular, Histiocyte																													
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																													
Inflammation																													
Olfactory Epithelium, Degeneration																													
Respiratory Epithelium, Degeneration, Focal																													2
Respiratory Epithelium, Hyperplasia																													1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cornea, Inflammation																													2
Retina, Atrophy																													
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell																													1

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade	M .. Missing tissue	1-4 .. Lesion qualified as:
+ .. Tissue examined microscopically	A .. Autolysis precludes evaluation	1) Minimal 3) Moderate
x .. Lesion present	BLANK .. Not examined microscopically	2) Mild 4) Marked
I .. Insufficient tissue	Page 16	

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		0 0	
	DAY ON TEST	5 7	
		1 0	
		2 1	
<hr/>			
SPRAGUE-DAWLEY RATS		0 0	
FEMALE		0 0	
	ANIMAL ID	0 0	
0 UG/KG		7 8	
		9 0	
			* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	51
Intestine Large, Cecum	+	+	52
Intestine Large, Colon Parasite Metazoan	+	+	52 1
Intestine Large, Rectum Parasite Metazoan Artery, Inflammation, Chronic Active	+	+	52 2 1 3.0
Intestine Small, Duodenum	+	+	52
Intestine Small, Ileum	+	+	52
Intestine Small, Jejunum	+	+	52
Liver	+	+	52
Basophilic Focus			11
Basophilic Focus, Multiple			4
Clear Cell Focus	X		6
Clear Cell Focus, Multiple			9
Degeneration, Cystic			1
Eosinophilic Focus			1.0
Fatty Change, Focal			5
			2 1.0

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DAY ON TEST	0	0	* TOTALS
	5	7	
SPRAGUE-DAWLEY RATS FEMALE	1	0	* TOTALS
	2	1	
ANIMAL ID	0	0	
0 UG/KG	7	8	
	9	0	
Fatty Change, Diffuse			1 1.0
Hematopoietic Cell Proliferation	1		19 1.0
Inflammation			21 1.0
Mixed Cell Focus			6
Mixed Cell Focus, Multiple	X		15
Necrosis			1 1.0
Pigmentation			1 1.0
Bile Duct, Cyst			2 2.5
Bile Duct, Fibrosis			2 1.5
Bile Duct, Hyperplasia			5 1.0
Capsule, Inflammation			1 2.0
Centrilobular, Degeneration			1 2.0
Mesentery			2
Artery, Inflammation, Chronic Active			1 3.0
Oral Mucosa			1
Pancreas	+	+	52
Degeneration			1 2.0
Acinus, Atrophy, Focal			4 1.3
Artery, Inflammation, Chronic Active			1 3.0
Salivary Glands	+	+	51
Stomach, Forestomach	+	+	52
Inflammation			2 2.5
Ulcer			2 2.5

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	DAY ON TEST	0 0 5 7 1 0 2 1	
SPRAGUE-DAWLEY RATS			
FEMALE			
0 UG/KG	ANIMAL ID	0 0 0 0 0 0 7 8 9 0	* TOTALS
Stomach, Glandular Cyst	+	+	52 1 2.0
Tooth Peridental Tissue, Inflammation			10 7 2.1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+		52
Heart	+	+		52
Cardiomyopathy		1		13 1.0

ENDOCRINE SYSTEM

Adrenal Cortex				52
Atrophy	+	+		1 2.0
Degeneration, Cystic				9 2.1
Hematopoietic Cell Proliferation				1 1.0
Hyperplasia		2		14 2.1
Hypertrophy		2		37 1.7
Vacuolization Cytoplasmic				10 1.4
<hr/>				
Adrenal Medulla				52
Hyperplasia	+	+		11 1.7
<hr/>				
Islets, Pancreatic				52

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

+ Tissue examined microscopically

x Lesion present

| Insufficient tissue

M Missing tissue

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1-1 Lesion qualified as:

+ .. Lesion qualified as:

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	DAY ON TEST	5 7		
		1 0		
		2 1		
<hr/>				
SPRAGUE-DAWLEY RATS		0 0		
FEMALE		0 0		
	ANIMAL ID	0 0		
0 UG/KG		7 8		
		9 0		
				* TOTALS

Parathyroid Gland	+ +	47
Pituitary Gland	+ +	52
Angiectasis		1 3.0
Pars Distalis, Hyperplasia		10 2.0
Thyroid Gland	+ +	51
Inflammation	1	1 1.0
C-cell, Hyperplasia		10 1.6
Follicular Cell, Hypertrophy		6 1.5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+ +	52
Inflammation	1 2	41 1.6
Duct, Cyst	2 2	26 2.0
Ovary	+ +	52
Cyst		8 2.5
Uterus	+ +	52
Inflammation		4 1.8
Metaplasia, Squamous	3	29 1.9

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		1 0	
		2 1	
<hr/>			
SPRAGUE-DAWLEY RATS		0 0	
FEMALE		0 0	
	ANIMAL ID	0 0	
0 UG/KG		7 8	
		9 0	
			* TOTALS

Thrombosis	1	1.0
Endometrium, Hyperplasia, Cystic	28	1.6

Vagina	7
--------	---

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	52
Atrophy			4 2.5
Hyperplasia	2	2	31 3.0
<hr/>			
Lymph Node, Mandibular	+	+	51
Hyperplasia, Plasma Cell	2		24 2.0
<hr/>			
Lymph Node, Mesenteric	+	+	52
Atrophy			1 3.0
Hyperplasia, Plasma Cell			1 2.0
<hr/>			
Spleen	+	+	52
Hematopoietic Cell Proliferation		3	42 2.0
Hemorrhage			1 3.0
Necrosis			1 3.0
Pigmentation	3	1	39 1.8
Lymphoid Follicle, Atrophy	2		3 2.0
<hr/>			
Thymus	+	+	51
Atrophy	2	2	41 2.6

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SPRAGUE-DAWLEY RATS		0 0	
FEMALE		0 0	
	ANIMAL ID	0 0	
0 UG/KG		7 8	
		9 0	
			* TOTALS

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	52
Cyst			1 2.0
Hyperplasia		2	4 2.0
<hr/>			
Skin	+	+	52

MUSCULOSKELETAL SYSTEM

Bone	+	+	52

NERVOUS SYSTEM

Brain	+	+	52
Gliosis			1 2.0
Hemorrhage		2	3 2.0
Hydrocephalus			1 2.0
Necrosis			2 3.0

RESPIRATORY SYSTEM

Lung	+	+	51
Inflammation			5 1.0
Metaplasia, Squamous			1 1.0

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	DAY ON TEST	0	0	
		5	7	
		1	0	
		2	1	
<hr/>				
SPRAGUE-DAWLEY RATS		0	0	
FEMALE		0	0	
	ANIMAL ID	0	0	
0 UG/KG		7	8	
		9	0	
<hr/>				
* TOTALS				

Proteinosis	1	1.0
Alveolar Epithelium, Hyperplasia	4	1.5
Alveolar Epithelium, Metaplasia, Bronchiolar	6	1.2
Alveolus, Infiltration Cellular, Histiocyte	36	1.8
<hr/>		

Nose	+	+	52
Cyst			1 2.0
Inflammation			1 2.0
Olfactory Epithelium, Degeneration			1 2.0
Respiratory Epithelium, Degeneration, Focal			1 2.0
Respiratory Epithelium, Hyperplasia			5 1.2
<hr/>			51

SPECIAL SENSES SYSTEM

Eye	+	+	52
Cornea, Inflammation			1 3.0
Retina, Atrophy			1 2.0
<hr/>			52
Harderian Gland	+	+	7 1.0
Infiltration Cellular, Mononuclear Cell			

URINARY 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	
	5	7	
	1	0	
	2	1	
	
SPRAGUE-DAWLEY RATS	0	0	
FEMALE	0	0	
ANIMAL ID	7	8	
0 UG/KG	9	0	* TOTALS
Kidney	+	+	52
Accumulation, Hyaline Droplet			1 2.0
Calculus Micro Observation Only			3
Mineralization	1		25 1.0
Nephropathy	1	1	42 1.5
Pigmentation			2 1.0
Artery, Inflammation, Chronic Active			1 2.0
.....
Urinary Bladder	+	+	52

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

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

† .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

HEMATOPOIETIC SYSTEM

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

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Skeletal Muscle

NERVOUS SYSTEM

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST																	
SPRAGUE-DAWLEY RATS FEMALE 100 UG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	7	6	3	6	2	6	7	7	6	3	6	7	3	5	7	7	6
	2	3	3	0	0	6	7	3	3	0	4	6	0	8	7	3	3	0
	8	3	7	2	8	5	4	3	4	2	1	5	6	6	1	3	3	2

ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2
Eye Cornea, Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland Hyperplasia Infiltration Cellular, Mononuclear Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	1				1					1			1		1	1	1	

URINARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M.. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Date Report Requested: 06/26/2008

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First Dose M/F: NA / 03/26/04

Lab: BAT

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

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x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

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1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

HEMATOPOIETIC SYSTEM

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

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

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

† Tissue examined microscopically

x Lesion present

| Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Skeletal Muscle

1

NERVOUS SYSTEM

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

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

+ ... Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

URINARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

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1-4 Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 5 7 1	0 7 3 3
SPRAGUE-DAWLEY RATS	0 0 3	0 0 3
FEMALE		
ANIMAL ID	7 4	7 5
100 UG/KG		

ALIMENTARY SYSTEM

Esophagus	+	+		52
Muscularis, Inflammation		2		3 1.7
Intestine Large, Cecum	+	+		51
Intestine Large, Colon	+	+		52
Intestine Large, Rectum	+	+		52
Inflammation				1 2.0
Parasite Metazoan				2
Intestine Small, Duodenum	+	+		52
Intestine Small, Ileum	+	+		51
Intestine Small, Jejunum	+	+		52
Liver	+	+		51
Angiectasis				1 3.0
Basophilic Focus				5
Basophilic Focus, Multiple				2
Cholangiofibrosis				2 1.0
Clear Cell Focus				3
Clear Cell Focus, Multiple				7
Eosinophilic Focus				5

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

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x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	ANIMAL ID	* TOTALS
	5	7		
7	3			
1	3			
.....				
SPRAGUE-DAWLEY RATS	0	0		
FEMALE	0	0		
100 UG/KG	3	3		
Eosinophilic Focus, Multiple				3
Fatty Change, Focal				1 1.0
Fatty Change, Diffuse	1			2 1.5
Hematopoietic Cell Proliferation				20 1.0
Hepatodiaphragmatic Nodule				1
Inflammation	1	1		30 1.0
Mixed Cell Focus				5
Mixed Cell Focus, Multiple				14
Necrosis				2 3.0
Pigmentation				5 1.2
Bile Duct, Cyst				3 2.3
Bile Duct, Fibrosis				1 2.0
Bile Duct, Hyperplasia				6 1.2
Centrilobular, Degeneration				2 1.5
Hepatocyte, Hypertrophy	2			12 1.3
Hepatocyte, Multinucleated				1 1.0
Oval Cell, Hyperplasia				12 1.1
.....				
Mesentery				1
Pancreas	+	+		52
Inflammation, Chronic Active				1 2.0
Acinus, Atrophy, Focal				2 1.5
Acinus, Hyperplasia				2 2.0
Artery, Inflammation, Chronic Active				2 2.0
.....				
Salivary Glands	+	+		51
Stomach, Forestomach	+	+		52
Hyperplasia, Squamous				3 2.7

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0 0 5 7 7 3 1 3	
SPRAGUE-DAWLEY RATS			
FEMALE			
100 UG/KG	ANIMAL ID	0 0 0 0 3 3 7 7 4 5	* TOTALS
Inflammation			1 2.0
Stomach, Glandular Erosion	+	+	52 1 2.0
Artery, Mineralization			1 1.0
Tooth Peridental Tissue, Inflammation			5 5 2.2

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+		52
Aorta, Mineralization				1 1.0
Heart	+	+		52
Cardiomyopathy		1		19 1.2
Artery, Mineralization				1 1.0
Coronary Artery, Thrombosis				1 2.0
Endocardium, Hyperplasia				1 2.0
Endocardium, Infiltration Cellular				1 1.0
Epicardium, Inflammation				1 3.0
Myocardium, Mineralization				1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex + + 52
Degeneration, Cystic 8 2.1

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	* TOTALS
	5	7	
SPRAGUE-DAWLEY RATS FEMALE 100 UG/KG	7	3	
	1	3	
Hyperplasia	2		18 2.2
Hypertrophy	2		37 1.8
Necrosis			1 2.0
Vacuolization Cytoplasmic			12 1.4
Adrenal Medulla	+ +		52
Hyperplasia			12 1.8
Islets, Pancreatic	+ +		52
Hyperplasia			1 3.0
Parathyroid Gland	+ M		46
Hyperplasia			1 3.0
Pituitary Gland	+ +		52
Angiectasis			1 1.0
Cyst			1 2.0
Pars Distalis, Hyperplasia			6 2.2
Thyroid Gland	+ +		51
C-cell, Hyperplasia			14 2.0
Follicular Cell, Hypertrophy			7 1.9

GENERAL BODY SYSTEM

NONE

GENITAL 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0	0	
		5	7	
		7	3	
		1	3	
<hr/>				
SPRAGUE-DAWLEY RATS		0	0	
FEMALE		0	0	
	ANIMAL ID	3	3	
100 UG/KG		7	7	
		4	5	* TOTALS

Clitoral Gland	+	+		52
Inflammation	1	2		38 1.8
Duct, Cyst	2	2		39 2.0
<hr/>				
Ovary	+	+		52
Cyst	1	2		10 2.0
<hr/>				
Uterus	+	+		52
Inflammation				6 2.0
Metaplasia, Squamous	2			26 1.7
Endometrium, Hyperplasia, Cystic		1		27 1.7

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+		52
Atrophy				1 2.0
Hyperplasia	3	2		30 2.8
<hr/>				
Lymph Node	+			2
Mediastinal, Hemorrhage	2			1 2.0
<hr/>				
Lymph Node, Mandibular	+	+		51
Hyperplasia, Plasma Cell		2		34 1.8
<hr/>				
Lymph Node, Mesenteric	+	+		51
Atrophy				1 2.0

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	* TOTALS
	5	7	
SPRAGUE-DAWLEY RATS FEMALE 100 UG/KG	7	3	
	1	3	
ANIMAL ID	0	0	
	0	0	
	3	3	
	7	7	
	4	5	
Spleen	+	+	52
Hematopoietic Cell Proliferation	3	2	39 2.0
Pigmentation	1	3	35 1.7
Lymphoid Follicle, Atrophy			4 2.5
Red Pulp, Atrophy			2 3.0
Thymus	+	+	51
Atrophy	4	2	38 2.7
Cyst			2 3.0
Hemorrhage			1 3.0
Inflammation			1 2.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	51
Cyst			2 3.0
Hyperplasia			5 1.6
Inflammation, Chronic Active	3		1 3.0
Skin	+	+	51
Hyperkeratosis			1 2.0
Hyperplasia, Squamous			2 2.0
Inflammation			3 2.7

MUSCULOSKELETAL SYSTEM

Bone	+	+	52

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 5 7 1	0 7 3 3
SPRAGUE-DAWLEY RATS	0 0 3	0 0 3
FEMALE		
ANIMAL ID	7 4	7 5
100 µG/KG		
		* TOTAL S

Skeletal Muscle

1

NERVOUS SYSTEM

Brain + + 52
 Hydrocephalus 2 1.5
 Vacuolization Cytoplasmic 1 3.0

RESPIRATORY SYSTEM

Lung	+	+	52
Inflammation			3 1.7
Alveolar Epithelium, Hyperplasia			2 1.0
Alveolar Epithelium, Metaplasia, Bronchiolar			7 1.4
Alveolus, Infiltration Cellular, Histiocyte	1	2	35 1.7
Serosa, Inflammation			1 3.0

Nose	+	+	52
Inflammation			5 2.0
Olfactory Epithelium, Degeneration			1 3.0
Respiratory Epithelium, Hyperplasia			5 1.4

Trachea + + 52

SPECIAL SENSES SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	
	5	7	
ANIMAL ID	7	3	
	4	5	
			* TOTALS
Eye	+	+	52
Cornea, Inflammation			1 1.0
Harderian Gland	+	+	52
Hyperplasia			1 1.0
Infiltration Cellular, Mononuclear Cell			10 1.0
Kidney	+	+	52
Cyst			2 2.5
Mineralization	1		28 1.1
Nephropathy	1	2	40 1.6
Pigmentation			3 1.0
Pelvis, Dilatation			1 2.0
Pelvis, Inflammation			1 1.0
Urinary Bladder	+	+	52
Hyperplasia			1 2.0
Inflammation			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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	ANIMAL ID	DAY ON TEST																				females (cont...)	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		6	5	7	3	7	7	1	7	1	1	7	6	7	4	6	7	7	6	4	5	5	
		9	7	3	9	3	0	3	8	3	6	9	3	8	3	1	5	3	3	5	3	4	
		4	5	3	3	3	7	5	3	3	3	7	3	7	5	2	8	4	3	2	3	5	
<hr/>																							
Eosinophilic Focus																							
Eosinophilic Focus, Multiple		X	X																				X
Fatty Change, Focal		1																					1
Fatty Change, Diffuse																							
Hematopoietic Cell Proliferation		1																					1
Hepatodiaphragmatic Nodule																							
Inflammation		1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mixed Cell Focus		X																					
Mixed Cell Focus, Multiple		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Necrosis																							1
Pigmentation																							1
Toxic Hepatopathy		1																					
Bile Duct, Cyst		3																					
Bile Duct, Hyperplasia																							
Centrilobular, Degeneration																							
Hepatocyte, Hypertrophy																							
Hepatocyte, Multinucleated																							
Oval Cell, Hyperplasia																							
<hr/>																							
Mesentery																							+
<hr/>																							
Oral Mucosa																							
<hr/>																							
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active		1																					
Acinus, Atrophy, Focal		2																					
Artery, Inflammation, Chronic Active																							2
<hr/>																							
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<hr/>																							

* .. 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

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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

+ Tissue examined microscopically

- + .. Tissue examined
- x Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically.

1-4 Lesion qualified as:

1-4 .. Lesson qualified as:
1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	ANIMAL ID	DAY ON TEST																								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	5	7	3	7	7	1	7	1	1	7	6	7	4	6	7	7	6	4	5	5	4	4	7	
		9	7	3	9	3	0	3	8	3	6	9	3	8	3	1	5	3	3	5	3	4	8	6	5	3
		4	5	3	3	3	7	5	3	3	3	7	3	7	5	2	8	4	3	2	3	5	9	9	3	5
<hr/>																										
Hyperplasia																										
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland Pars Distalis, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thyroid Gland C-cell, Hyperplasia Follicular Cell, Hypertrophy		1	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous																									
Inflammation	3	2	3	2	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Duct, Cyst	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Ovary	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst	2	1	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Bilateral, Cyst																									

* .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

HEMATOPOIETIC SYSTEM

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

+ Tissue examined microscopically

x Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-1 Lesion qualified as:

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

Spinal Cord

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

URINARY 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

TDMS No. 20304 - 01

Test Type: CHRONIC

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CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

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

† .. Tissue examined microscopically

x ... Lesion present

X .. Lesion present
| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

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

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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

+ Tissue examined microscopically

x Lesion present

| Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

HEMATOPOIETIC SYSTEM

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

† .. Tissue examined microscopically

x ... Lesion present

.. Essien present
 .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

First Dose M/F: NA / 03/26/04

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

Spinal Cord

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	2	7	4	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	5	6	6	7	6	
	0	2	3	4	3	3	1	3	3	3	3	1	3	4	3	3	3	0	3	3	9	5	1	3	9
	4	9	4	6	5	4	7	3	3	3	5	3	5	5	4	5	5	1	4	3	5	2	7	4	4
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7
	5	9	1	2	3	4	5	6	7	8	9	0	6	7	8	9	0	1	2	3	4	5	6	7	8

females
(cont...)

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation	1	1																								3
Pigmentation																										1
Alveolar Epithelium, Metaplasia, Bronchiolar	1																									2
Alveolus, Infiltration Cellular, Histiocyte	2	2	1	2	1	2	1	1	2		1		2	2		1	2	2	1		1	2	3			
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										2
Respiratory Epithelium, Hyperplasia	2																									1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation																										3
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										2
Infiltration Cellular, Mononuclear Cell																										1

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade	M .. Missing tissue	1-4 .. Lesion qualified as:
+ .. Tissue examined microscopically	A .. Autolysis precludes evaluation	1) Minimal 3) Moderate
x .. Lesion present	BLANK .. Not examined microscopically	2) Mild 4) Marked
I .. Insufficient tissue	Page 64	

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	2	7	4	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	5	6	6	7	6	7	6	7	6	7	
ANIMAL ID	0	2	3	4	3	3	1	3	3	3	3	1	3	4	3	3	3	0	3	3	9	5	1	3	9	5	1	3	9	5	1	
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet																																1
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Necrosis																																
Nephropathy	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	2	1	2	1	2	1	1	1	1	1	
Pigmentation																																1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. 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

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 7 3 5	0 7 3 3
SPRAGUE-DAWLEY RATS	0 0 4	0 0 4
FEMALE		
ANIMAL ID	7 9	8 0
220 UG/KG		

ALIMENTARY SYSTEM

Esophagus	+	+		52
Intestine Large, Cecum	+	+		51
Inflammation				1 2.0
Ulcer				1 2.0
Intestine Large, Colon	+	+		52
Intestine Large, Rectum	+	+		52
Parasite Metazoan				3
Intestine Small, Duodenum	+	+		52
Intestine Small, Ileum	+	+		50
Intestine Small, Jejunum	+	+		50
Liver	+	+		52
Angiectasis				1 2.0
Basophilic Focus				8
Basophilic Focus, Multiple				3
Cholangiofibrosis				2 1.5
Clear Cell Focus				4
Clear Cell Focus, Multiple				3
Degeneration, Cystic				1 1.0

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	* TOTALS
	7	7	
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	3	3	
	5	3	
Eosinophilic Focus			4
Eosinophilic Focus, Multiple			5
Fatty Change, Focal	X		6 1.0
Fatty Change, Diffuse			1 1.0
Hematopoietic Cell Proliferation			21 1.0
Hepatodiaphragmatic Nodule	X		2
Inflammation	1	1	35 1.1
Mixed Cell Focus	X		7
Mixed Cell Focus, Multiple	X		22
Necrosis			1 1.0
Pigmentation	1		12 1.3
Toxic Hepatopathy			3 1.0
Bile Duct, Cyst			5 2.8
Bile Duct, Hyperplasia			7 1.3
Centrilobular, Degeneration			4 1.3
Hepatocyte, Hypertrophy			15 1.6
Hepatocyte, Multinucleated			3 1.0
Oval Cell, Hyperplasia			9 1.2
Mesentery			3
Oral Mucosa			1
Pancreas	+	+	52
Inflammation, Chronic Active			2 1.0
Acinus, Atrophy, Focal			3 1.3
Artery, Inflammation, Chronic Active			1 2.0
Salivary Glands	+	+	52

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0 7 3 5	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	ANIMAL ID	0 0 4 7 9	0 0 4 8 0	* TOTALS
Stomach, Forestomach		+	+	52
Stomach, Glandular Glands, Cyst		+	+	52
Tooth Peridental Tissue, Inflammation		+		5
		3		5 2.6

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	52
Heart	+	+	52
Cardiomyopathy		1	14 1.1
Artery, Mineralization			1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	52
Degeneration, Cystic		2	9 2.1
Hyperplasia			13 2.3
Hypertrophy	3	1	39 1.8
Inflammation			1 2.0
Necrosis			2 3.0
Vacuolization Cytoplasmic	2		13 1.5
Adrenal Medulla	+	+	52

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1) Minimal 3) Moderate

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TDMS No. 20304 - 01

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0 7 3 5	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	ANIMAL ID	0 0 4 7 9	0 0 4 8 0	* TOTALS

Hyperplasia	3	14 1.4
Islets, Pancreatic	+	52
Parathyroid Gland	+	47
Pituitary Gland Pars Distalis, Hyperplasia	+	52
Thyroid Gland C-cell, Hyperplasia Follicular Cell, Hypertrophy	+	10 1.8 13 1.6

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland Hyperplasia, Squamous	+	51
Inflammation	2	39 1.7
Duct, Cyst	1	31 1.9
Ovary Cyst Bilateral, Cyst	+	52
	2	13 2.3 1 4.0

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CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0	0	
SPRAGUE-DAWLEY RATS		7	7	
FEMALE		3	3	
		5	3	
220 UG/KG	ANIMAL ID	0	0	
		0	0	
		4	4	
		7	8	
		9	0	

* TOTALS

Uterus	+	+	52	
Cyst				1 3.0
Inflammation				6 2.3
Metaplasia, Squamous	1		27	2.0
Endometrium, Hyperplasia, Cystic	3	1	22	1.5

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	52	
Atrophy				1 2.0
Hyperplasia		2	30	3.1
Myelofibrosis			1	1.0
Lymph Node				1
Lymph Node, Mandibular	+	+	52	
Hyperplasia, Lymphoid				1 2.0
Hyperplasia, Plasma Cell	1	2	36	1.6
Lymph Node, Mesenteric	+	+	52	
Spleen	+	+	52	
Hematopoietic Cell Proliferation	2			39 1.9
Pigmentation	2			31 1.6
Lymphoid Follicle, Atrophy				2 1.5
Red Pulp, Atrophy				2 1.5
Thymus	+	+	51	

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 7 3 5	0 7 3 3
SPRAGUE-DAWLEY RATS		
FEMALE		
220 UG/KG	ANIMAL ID	0 0 0 0 4 4 7 8 9 0
Atrophy	4	2
Cyst		
Hemorrhage		
		* TOTALS
Atrophy		44 2.6
Cyst		1 2.0
Hemorrhage		1 3.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	52
Hyperplasia			4 1.3
Inflammation, Granulomatous			2 3.0
<hr/>			
Skin	+	+	52
Cyst Epithelial Inclusion			1

MUSCULOSKELETAL SYSTEM

Bone + + 52

NERVOUS SYSTEM

Brain	+	+	52
Angiectasis			1 1.0
Hydrocephalus			1 1.0
<hr/>			
Spinal Cord			1

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+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

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TDMS No. 20304 - 01

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 7 3 5	0 7 3 3
SPRAGUE-DAWLEY RATS	0 0 4	0 0 4
FEMALE		
ANIMAL ID	7 9	8 0
220 UG/KG		

RESPIRATORY SYSTEM

Lung	+	+		52
Inflammation			5 1.4	
Pigmentation			1 1.0	
Alveolar Epithelium, Metaplasia, Bronchiolar			14 1.3	
Alveolus, Infiltration Cellular, Histiocyte	1			37 1.6
<hr/>				
Nose	+	+		52
Inflammation			5 1.8	
Respiratory Epithelium, Hyperplasia			7 1.4	
<hr/>				
Trachea	+	+		52

SPECIAL SENSES SYSTEM

Eye	+	+	52
Cornea, Inflammation			1 3.0
Harderian Gland	+	+	52
Hyperplasia			2 2.0
Infiltration Cellular, Mononuclear Cell	2		3 1.3

URINARY SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

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1-4 Lesion qualified as

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	
	7	7	
	3	3	
	5	3	
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG	0	0	
	0	0	
	4	4	
ANIMAL ID	7	8	
	9	0	* TOTALS
Kidney	+	+	52
Accumulation, Hyaline Droplet			1 1.0
Mineralization	1		30 1.1
Necrosis			1 3.0
Nephropathy	1	2	46 1.3
Pigmentation			3 1.3
Urinary Bladder	+	+	52

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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1) Minimal 3) Moderate

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† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

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1-4 Lesion qualified as

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

Adrenal Cortex Angiectasis + + + + + + + + + + + + + + + + + + A + +

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

† Tissue examined microscopically

- ✗ Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

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M Missing tissue

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TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

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Species/Strain: RATS/SD

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TEF evaluation (PCB 118)

CAS Number: 31508-00-6

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First Dose M/F: NA / 03/26/04

Lab: BAT

		DAY ON TEST																				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	6	7	7	7	7	7	7	7	4	7	4	7	2	5	7	5	7	7	6
		2	3	5	3	3	3	3	3	3	3	8	3	5	3	3	7	2	3	9	3	3
		7	4	8	5	5	5	5	4	5	3	5	4	1	7	5	8	5	9	4	3	3
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
460 UG/KG		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	2	6	7	8	9	0
Hyperplasia, Plasma Cell		1	1	1	1	1	2	2	2	1	3	2	2	2	2	2	3	2	1	2		
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hematopoietic Cell Proliferation		3	1	1	3	2	1	2	1	2	1	2	2	1	1	2	1	1	2	3	2	
Necrosis																						
Pigmentation		2			1	1		1	1	1	1		1	2	1	1	1	3	2	2	1	
Capsule, Hemorrhage																						
Lymphoid Follicle, Atrophy																						
Red Pulp, Atrophy																						
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Atrophy		3	3	2	3	3	3	3	2	3	2	4	3	2	2	4	3	2	4	2	2	

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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First Dose M/F: NA / 03/26/04

Lab: BAT

NERVOUS SYSTEM

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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1-4 Lesion qualified as

1) Minimal 3) Moderate

1) Minimal 3) Moderate
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TDMS No. 20304 - 01

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First Dose M/F: NA / 03/26/04

Lab: BAT

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x .. Lesion present

X .. Eosin present
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First Dose M/F: NA / 03/26/04

Lab: BAT

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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X .. Eosin present
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First Dose M/F: NA / 03/26/04

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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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First Dose M/F: NA / 03/26/04

Lab: BAT

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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First Dose M/F: NA / 03/26/04

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	4	7	6	5	6	5	6	7	5	7	7	7	7	7	7	3	7	7	7	7	7	7	6	7	
	7	1	3	7	9	5	8	4	3	8	3	3	3	3	3	3	0	3	3	3	3	3	3	0	3	
	1	2	3	7	3	5	2	3	4	2	0	5	5	4	5	5	0	3	3	5	3	3	3	2	5	
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
460 UG/KG	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
ANIMAL ID	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6	7	7	7	
	5	6	7	8	9	0	1	2	3	4	5	1	2	3	4	5	3	6	7	8	9	0	6	7	8	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																											
Hemorrhage																											
Meninges, Inflammation																											

2

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																											
Inflammation																											
Metaplasia, Squamous																											
Alveolar Epithelium, Metaplasia, Bronchiolar																											
Alveolus, Infiltration Cellular, Histiocyte	2	1	3	1	2	1		2			1			2	2	2	1	2	1	1	2	2	1				

2

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																											
Respiratory Epithelium, Hyperplasia	1																										
Respiratory Epithelium, Necrosis																											

2

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SPECIAL SENSES SYSTEM

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

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I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Eye
Cornea, Inflammation

Harderian Gland Infiltration Cellular, Mononuclear Cell

URINARY SYSTEM

- Kidney
 - Calculus
 - Micro Observation Only
- Dilatation
- Mineralization
- Nephropathy
- Pigmentation
- Pelvis, Dilatation
- Renal Tubule, Hyperplasia

Urinary Bladder

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

† Tissue examined microscopically

- ✗ Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

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First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 7 3 4	0 6 2 7
SPRAGUE-DAWLEY RATS	0 0 5	0 0 5
FEMALE		
ANIMAL ID	7 9	8 0
460 UG/KG		

ALIMENTARY SYSTEM

Esophagus				52
Ulcer	+	+		1 2.0
Muscularis, Inflammation				1 3.0
Intestine Large, Cecum				52
Inflammation	+	+		1 3.0
Artery, Inflammation, Chronic Active		3		1 3.0
Intestine Large, Colon				52
Artery, Inflammation, Chronic Active	+	+		1 3.0
Intestine Large, Rectum				52
Parasite Metazoan	+	+		2
Artery, Inflammation, Chronic Active				2 2.5
Intestine Small, Duodenum				52
Intestine Small, Ileum				52
Intestine Small, Jejunum				52
Liver				52
Angiectasis	+	+		2 2.5
Basophilic Focus		X		4
Basophilic Focus, Multiple				2

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	* TOTALS
	7	6	
SPRAGUE-DAWLEY RATS FEMALE 460 UG/KG	3	2	
	4	7	
Cholangiofibrosis			3 1.7
Clear Cell Focus			5
Clear Cell Focus, Multiple	X		9
Eosinophilic Focus			4
Eosinophilic Focus, Multiple			11
Fatty Change, Focal			4 1.0
Fatty Change, Diffuse			9 1.7
Hematopoietic Cell Proliferation	1		28 1.0
Hepatodiaphragmatic Nodule			1
Inflammation	1	2	36 1.1
Mixed Cell Focus			6
Mixed Cell Focus, Multiple	X		30
Necrosis			2 2.5
Pigmentation	1	2	41 1.4
Toxic Hepatopathy		1	14 1.0
Bile Duct, Cyst		2	6 2.3
Bile Duct, Fibrosis			3 1.0
Bile Duct, Hyperplasia			8 1.4
Centrilobular, Degeneration			3 1.0
Hepatocyte, Hypertrophy	1	2	20 1.6
Hepatocyte, Multinucleated		1	21 1.2
Oval Cell, Hyperplasia	1	1	29 1.2
Mesentery			3
Hemorrhage			1 3.0
Artery, Inflammation, Chronic Active			2 3.0
Oral Mucosa			1
Gingival, Hyperplasia, Squamous			1 3.0

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0	0	
		7	6	
		3	2	
		4	7	
<hr/>				
SPRAGUE-DAWLEY RATS		0	0	
FEMALE		0	0	
	ANIMAL ID	5	5	
460 UG/KG		7	8	
		9	0	* TOTALS

Pancreas	+	+	52	2 1.0
Inflammation, Chronic Active				4 1.3
Acinus, Atrophy, Focal				7 2.4
Artery, Inflammation, Chronic Active				
<hr/>				
Salivary Glands	+	+	51	
<hr/>				
Stomach, Forestomach	+	+	52	
<hr/>				
Stomach, Glandular Erosion	+	+	52	1 1.0
<hr/>				
Tooth			5	
Peridental Tissue, Inflammation				5 2.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	52	
<hr/>				
Heart	+	+	52	
Cardiomyopathy				16 1.2
Artery, Mineralization				1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	51	
Angiectasis				1 3.0

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	
	7	6	
SPRAGUE-DAWLEY RATS FEMALE 460 UG/KG	3	2	
	4	7	
Atrophy			2 2.0
Degeneration, Cystic			12 2.4
Hyperplasia			16 2.4
Hypertrophy	1		43 1.7
Vacuolization Cytoplasmic			12 1.6
Adrenal Medulla	+	+	52
Hyperplasia		1	16 1.8
Islets, Pancreatic	+	+	52
Parathyroid Gland	+	+	50
Pituitary Gland	+	+	52
Pars Distalis, Hyperplasia			13 1.9
Thyroid Gland	+	+	51
C-cell, Hyperplasia			6 2.3
Follicular Cell, Hypertrophy	1	3	18 1.4

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+		52
Inflammation	1	1		40 1.5

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0 7 3 4	0 6 2 7	
SPRAGUE-DAWLEY RATS FEMALE 460 UG/KG	ANIMAL ID	0 0 5 7 9	0 0 5 8 0	* TOTALS
Duct, Cyst		2	1	35 2.2
Ovary		+	+	52
Cyst			3	14 2.2
Fibrosis			3	1 3.0
Inflammation				2 3.5
Pigmentation			3	1 3.0
Uterus		+	+	52
Adenomyosis				1 2.0
Cyst				1 3.0
Inflammation			3	8 2.3
Metaplasia, Squamous		2	3	34 1.8
Thrombosis				2 2.5
Artery, Inflammation, Chronic Active				1 3.0
Endometrium, Hyperplasia, Cystic		2		23 2.0
Vagina				1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	52
Hyperplasia		4	32 2.7
Lymph Node			1
Lymph Node, Mandibular	+	+	51
Hyperplasia, Lymphoid			1 2.0

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0		
	7	6		
	3	2		
	4	7		
SPRAGUE-DAWLEY RATS FEMALE	0	0		
	0	0		
	5	5		
460 UG/KG	7	8		
	9	0		
				* TOTALS
Hyperplasia, Plasma Cell	3	2		33 1.7
Lymph Node, Mesenteric	+	+		52
Spleen	+	+		52
Hematopoietic Cell Proliferation				39 1.7
Necrosis				1 2.0
Pigmentation	1	1		36 1.5
Capsule, Hemorrhage				1 3.0
Lymphoid Follicle, Atrophy				2 2.0
Red Pulp, Atrophy				1 2.0
Thymus	+	+		50
Atrophy	2	4		44 2.8

INTEGUMENTARY SYSTEM

Mammary Gland	+	+		52
Cyst				2 3.0
Hyperplasia		1		5 1.4
Inflammation, Granulomatous				1 3.0
Skin	+	+		52
Cyst Epithelial Inclusion				1

MUSCULOSKELETAL 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 7 3 4	0 6 2 7

SPRAGUE-DAWLEY RATS	0 0 5	0 0 5
FEMALE		
460 UG/KG	ANIMAL ID	7 9
		8 0
Bone	+	+
		* TOTALS
		52

NERVOUS SYSTEM

RESPIRATORY SYSTEM

Lung	+	+	52
Hemorrhage			1 2.0
Inflammation			3 1.0
Metaplasia, Squamous			1 1.0
Alveolar Epithelium, Metaplasia, Bronchiolar	2		18 1.4
Alveolus, Infiltration Cellular, Histiocyte	2	2	39 1.6

Nose	+	+	52
Inflammation			3 1.7
Respiratory Epithelium, Hyperplasia			7 1.3
Respiratory Epithelium, Necrosis			1 2.0

Trachea + + 52

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

+ Tissue examined microscopically

x Lesion present

| Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 7 3 4	0 6 2 7
SPRAGUE-DAWLEY RATS	0 0	0 0
FEMALE	5	5
ANIMAL ID	7 9	8 0
460 UG/KG		* TOTALS

Eye Cornea, Inflammation	+	+		52	1 3.0
Harderian Gland Infiltration Cellular, Mononuclear Cell	+	+		52	10 1.0

URINARY SYSTEM

Kidney	+	+		52
Calculus			2	
Micro Observation Only			1 3.0	
Dilatation			18 1.1	
Mineralization			44 1.6	
Nephropathy	2	3	4 1.3	
Pigmentation			1 3.0	
Pelvis, Dilatation		3	1 2.0	
Renal Tubule, Hyperplasia			
Urinary Bladder	+	+		52

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

† .. Tissue examined microscopically

x ... Lesion present

x .. lesion present
| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

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

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Cardiomyopathy

Inflammation

Artery, Inflammation, Chronic Active

Endocardium, Hyperplasia

ENDOCRINE SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Thyroid Gland
Infiltration Cellular, Lymphocyte
C-cell, Hyperplasia
Follicular Cell, Hyperplasia
Follicular Cell, Hypertrophy

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Inflammation
Duct, Cyst

Ovary
Cyst
Inflammation

Uterus
Hemorrhage
Inflammation
Metaplasia, Squamous
Thrombosis
Ulcer
Cervix, Cyst
Endometrium, Hyperplasia, Cystic

6 6 females
4 4
3 4 (cont...)

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Epithelium, Hyperplasia

2

+

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

SPECIAL SENSES SYSTEM

URINARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

x .. Lesion present

A - Autolysis precludes evaluation

.. Lesion qualified as:

.. Lesion present
 Insufficient tissue

BLANK Not examined microscopically

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

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Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy					3						2											3
Degeneration, Cystic												3										3
Hematopoietic Cell Proliferation																						
Hyperplasia				2	1	1	2	2									3			1		2
Hypertrophy		2	1	1	2	2		2	2	1	2	2	1	2	2	2	1	1	2	2	1	2
Necrosis																		2				
Vacuolization Cytoplasmic									1								2	1				1
<hr/>																						
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia						1		1				1			1						2	
Necrosis																						
<hr/>																						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<hr/>																						
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<hr/>																						
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																						
Pars Distalis, Cyst																						
Pars Distalis, Hyperplasia	2			2			3			2			3							1	2	

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

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Thyroid Gland
Infiltration Cellular, Lymphocyte
C-cell, Hyperplasia
Follicular Cell, Hyperplasia
Follicular Cell, Hypertrophy

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Inflammation
Duct, Cyst

Ovary Cyst Inflammation

Uterus
Hemorrhage
Inflammation
Metaplasia, Squamous
Thrombosis
Ulcer
Cervix, Cyst
Endometrium, Hyperplasia

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Epithelium, Hyperplasia

Vagina

HEMATOPOIETIC SYSTEM

Thymus + Atrophy 3 3 3 2 4 2 3 4 4 3 4 2 3 3 2 3 4 4 4 + 3 3 4 3 4 Hemorrhage 2

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

SPECIAL SENSES SYSTEM

Eye Retina, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2		
Harderian Gland Infiltration Cellular, Mononuclear Cell Vacuolization Cytoplasmic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	1

URINARY SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

Pelvis, Dilatation

Pelvis, Inflammation

Transitional Epithelium, Hyperplasia

1

Ureter

Urinary Bladder
Inflammation

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0 4 2 1	0 5 3 0	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG	ANIMAL ID	0 0 6 7 4	0 0 6 7 5	* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	52	1	2.0
Muscularis, Degeneration					
Intestine Large, Cecum	+	+	52	1	3.0
Degeneration, Fatty				3	2.3
Artery, Inflammation, Chronic Active					
Intestine Large, Colon	+	+	52	1	
Parasite Metazoan				3	2.7
Artery, Inflammation, Chronic Active					
Intestine Large, Rectum	+	+	52	1	
Parasite Metazoan				5	2.8
Artery, Inflammation, Chronic Active					
Intestine Small, Duodenum	+	+	52	1	
Inflammation				3	3.0
Ulcer					
Intestine Small, Ileum	+	+	52	1	
Artery, Inflammation, Chronic Active				2	2.0
Intestine Small, Jejunum	+	+	52	1	
Inflammation, Chronic Active				3	3.0
Artery, Inflammation, Chronic Active					

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+ .. 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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	* TOTALS
	4	5	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG	2	3	
	6	6	
ANIMAL ID	7	7	
Liver	+	+	52
Basophilic Focus		X	8
Basophilic Focus, Multiple			1
Cholangiofibrosis			2 1.5
Clear Cell Focus			2
Clear Cell Focus, Multiple			3
Degeneration, Cystic			1 1.0
Eosinophilic Focus			5
Eosinophilic Focus, Multiple	X		20
Fatty Change, Focal		3	3 1.7
Fatty Change, Diffuse			39 2.0
Hematopoietic Cell Proliferation			19 1.1
Hyperplasia, Nodular			12
Inflammation	1	2	43 1.3
Mixed Cell Focus			1
Mixed Cell Focus, Multiple			30
Necrosis		3	20 1.5
Pigmentation	1	3	50 2.2
Toxic Hepatopathy		1	33 1.4
Bile Duct, Cyst			6 2.2
Bile Duct, Fibrosis			2 1.0
Bile Duct, Hyperplasia			21 1.5
Centrilobular, Degeneration			6 1.7
Hepatocyte, Hypertrophy	1	2	44 2.0
Hepatocyte, Multinucleated	1	2	40 1.3
Oval Cell, Hyperplasia			40 1.6
Mesentery			9
Artery, Inflammation, Chronic Active			5 3.4
Fat, Necrosis			1 3.0

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TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST					
		0	0			
SPRAGUE-DAWLEY RATS		4	5			
FEMALE		2	3			
1000 UG/KG	ANIMAL ID	1	0			
		0	0			
		0	0			
		6	6			
		7	7			
		4	5			
						* TOTALS
Oral Mucosa					1	
Gingival, Hyperplasia, Squamous						1 3.0
Pancreas		+	+		52	
Inflammation, Chronic Active						3 1.0
Acinus, Atrophy, Focal						3 2.0
Acinus, Hyperplasia						1 2.0
Acinus, Vacuolization Cytoplasmic						4 1.0
Artery, Inflammation, Chronic Active						7 2.4
Salivary Glands		+	+		52	
Degeneration						1 2.0
Stomach, Forestomach		+	+		52	
Hyperplasia, Squamous						2 1.5
Artery, Inflammation, Chronic Active						1 2.0
Stomach, Glandular		+	+		52	
Mineralization						1 1.0
Tooth					4	
Periodontal Tissue, Inflammation						4 2.5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+		52	
Heart	+	+		52	

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2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0 0 4 5 2 3 1 0	
SPRAGUE-DAWLEY RATS		0 0 0 0 6 6	
FEMALE		7 7	
1000 UG/KG	ANIMAL ID	4 5	* TOTALS

ENDOCRINE SYSTEM

Adrenal Cortex			52
Atrophy	+	+	
Degeneration, Cystic			9 2.3
Hematopoietic Cell Proliferation			6 2.3
Hyperplasia			1 1.0
Hypertrophy	1		13 2.0
Necrosis			44 1.6
Vacuolization Cytoplasmic			3 2.7
			12 1.4
.....			
Adrenal Medulla			52
Hyperplasia	+	+	
Necrosis			10 1.4
			1 3.0
.....			
Islets, Pancreatic			52
.....			
Parathyroid Gland			50
.....			
Pituitary Gland			52
Angiectasis	+	+	
Pars Distalis, Cyst			1 3.0
Pars Distalis, Hyperplasia	2		1 2.0
			16 2.5

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TDMS No. 20304 - 01

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Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST	0 4 2 1	0 5 3 0	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG	ANIMAL ID	0 0 6 7 4	0 0 6 7 5	* TOTALS
Epithelium, Hyperplasia				1 2.0
Vagina				1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	52
Atrophy		2	1 2.0
Hyperplasia		3	34 2.6
Lymph Node, Mandibular	+	+	52
Atrophy			1 3.0
Hyperplasia, Lymphoid			1 2.0
Hyperplasia, Plasma Cell			30 1.9
Lymph Node, Mesenteric	+	+	52
Atrophy			1 3.0
Hemorrhage			1 3.0
Spleen	+	+	52
Hematopoietic Cell Proliferation			32 1.7
Pigmentation		3	40 2.0
Lymphoid Follicle, Atrophy		2	3 2.7
Red Pulp, Atrophy			1 2.0
Thymus	+	+	50
Atrophy		2	46 3.0
Hemorrhage		3	1 2.0

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 4 2 1	0 5 3 0
SPRAGUE-DAWLEY RATS	0 0 6 7	0 0 6 7
FEMALE		
1000 UG/KG	ANIMAL ID	4 5

INTEGUMENTARY SYSTEM

Mammary Gland + + 52
Skin + + 52

MUSCULOSKELETAL SYSTEM

Bone	+	+	52
<hr/>			
Skeletal Muscle			1

NERVOUS SYSTEM

RESPIRATORY SYSTEM

Lung	+ +	52
Congestion		1 3.0
Inflammation		2 3.0
Metaplasia, Squamous		1 1.0
Alveolar Epithelium, Metaplasia, Bronchiolar		24 1.4

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x ... Lesion present

X .. Lesion present
| .. Insufficient tissue

M Missing tissue

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1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Date Report Requested: 06/26/2008

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First Dose M/F: NA / 03/26/04

Lab: BAT

		0 0	
	DAY ON TEST	4 5	
		2 3	
		1 0	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG	ANIMAL ID	0 0 0 0 6 6 7 7 4 5	* TOTALS

Alveolus, Infiltration Cellular, Histiocyte 34 1.6

Nose + + 52
Inflammation 5 1.6
Respiratory Epithelium, Hyperplasia 14 1.1

Trachea + + 52

SPECIAL SENSES SYSTEMEye + + 52
Retina, Atrophy 1 2.0

Harderian Gland + + 52
Infiltration Cellular, Mononuclear Cell 4 1.0
Vacuolization Cytoplasmic 1 2.0**URINARY SYSTEM**Kidney + + 52
Calculus Micro Observation Only 1
Inflammation 1 2.0
Mineralization 22 1.0
Nephropathy 44 1.7
Pigmentation 6 1.0
Artery, Inflammation, Chronic Active 1 2.0
Capsule, Inflammation, Chronic Active 1 2.0

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	
	4	5	
	2	3	
	1	0	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG	0	0	
	0	0	
	6	6	
	7	7	
	4	5	* TOTALS
Pelvis, Dilatation			1 2.0
Pelvis, Inflammation			2 1.5
Transitional Epithelium, Hyperplasia			3 1.7
Ureter			1
Urinary Bladder Inflammation	+ +		52 1 3.0

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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Lab: BAT

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

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

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1-4: Lesion qualified as:

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Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

NONE

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

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Lab: BAT

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Duct, Cyst	2	1	3		1	2		2	2	2	2	1	2		2	2	2	1	2	2
Ovary	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst					3	1		3										2	2	2
Inflammation																		3		3
Uterus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenomyosis																				4
Cyst																				3
Hemorrhage																				
Inflammation																		4	2	2
Metaplasia, Squamous	1	2																1		
Endometrium, Hyperplasia, Cystic	1	2															2	4		2

HEMATOPOIETIC SYSTEM

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| .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 20304 - 01

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Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Date Report Requested: 06/26/2008

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First Dose M/F: NA / 03/26/04

Lab: BAT

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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Lab: BAT

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

Spinal Cord Nerve, Degeneration

RESPIRATORY SYSTEM

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

† .. Tissue examined microscopically

x ... Lesion present

X .. Lesion present
| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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| .. Insufficient tissue

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1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

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ALIMENTARY SYSTEM

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+ .. Tissue examined microscopically

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.. Lesion present
 Insufficient tissue

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2) Mild 4) Marked

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First Dose M/F: NA / 03/26/04

Lab: BAT

	DAY ON TEST		0		0		0		0		0		0		0		0		0		0																								
			0		4		6		7		7		6		6		7		0		7																								
			0		5		9		3		3		7		2		3		5		3																								
			5		9		2		3		3		7		0		4		5		1																								
			4		9		2		3		3		7		0		4		5		1																								
SPRAGUE-DAWLEY RATS																																													
FEMALE																																													
4600 UG/KG																																													
ANIMAL ID																																													
females (cont...)																																													
Fatty Change, Diffuse	3	2	3	3	3	3	2	2	2	2	2	2	3	3	3	3	1	2	3	2	3	2	2	2																					
Hematopoietic Cell Proliferation			1	1	1				1				1		1			1	1	1																									
Hyperplasia, Nodular			X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X																					
Inflammation	2	2	1	1	2	2	2		2		1		1	1	1		1	1	1	1	1	1	2	1																					
Mixed Cell Focus													X																																
Mixed Cell Focus, Multiple																																													
Necrosis	1	2											1	1	1			2	2			3																							
Pigmentation		2	2	1	1	2	1	1	1				1		2	1	1	2	1	1	1	3	3	2																					
Toxic Hepatopathy		2	4	4	4	4	4	4	4				4		3	3	3	4	4	3	3	4	3	2																					
Bile Duct, Cyst		2			2			3					3		3	2		2	1	2	2																								
Bile Duct, Hyperplasia		2	1		1	1		1					2		2	2	2	2	1	3	2	3	1	2																					
Centrilobular, Degeneration																																													
Hepatocyte, Hypertrophy	3	3	4	4	4	4	4	4	2		3		4	4	4		4	4	4	3	4	4	4	4																					
Hepatocyte, Multinucleated	1	1	1	1		1	2	2					1	1	2	1	2	1	2	2	2	3	1	2																					
Oval Cell, Hyperplasia	3	3	3	3	4	3	3						3	3	3		2	3	3	3	3	2	3	2																					
Mesentery			+				+										+																												
Artery, Inflammation, Chronic Active													3				3																												
Artery, Thrombosis																																													
Fat, Necrosis													3																																
Oral Mucosa														+	+																														
Gingival, Cyst													3																																
Pancreas	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+																						
Inflammation, Chronic Active										1																																			
Acinus, Atrophy, Focal																																													
Acinus, Atrophy, Diffuse										3																																			
Acinus, Vacuolization																																													
Cytoplasmic Artery, Inflammation, Chronic Active													2		3	1	2	2	2	3	2	2	2	3																					

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+ .. Tissue examined microscopically

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| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

CARDIOVASCULAR SYSTEM

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+ .. Tissue examined microscopically

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| .. Insufficient tissue

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2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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First Dose M/F: NA / 03/26/04

Lab: BAT

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

NONE

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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2) Mild 4) Marked

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Species/Strain: RATS/SD

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Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

GENITAL SYSTEM

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

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

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

† .. Tissue examined microscopically

x ... Lesion present

.. Essien present
 .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

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1-4 Lesion qualified as

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1) Minimal 3) Moderate
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TDMS No. 20304 - 01

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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First Dose M/F: NA / 03/26/04

Lab: BAT

		0	0
DAY ON TEST		6	7
		9	3
		9	3
<hr/>			
SPRAGUE-DAWLEY RATS		0	0
FEMALE		0	0
	ANIMAL ID	7	7
4600 UG/KG		7	8
		9	0

ALIMENTARY SYSTEM

Esophagus	+	+		52
Intestine Large, Cecum	+	+		48
Artery, Inflammation, Chronic Active				1 3.0
Intestine Large, Colon	+	+		48
Parasite Metazoan				1
Artery, Inflammation, Chronic Active				1 2.0
Intestine Large, Rectum	+	+		50
Parasite Metazoan				3
Artery, Inflammation, Chronic Active				1 3.0
Intestine Small, Duodenum	+	+		48
Intestine Small, Ileum	+	+		47
Intestine Small, Jejunum	+	+		48
Liver	+	+		49
Angiectasis				2 2.0
Basophilic Focus				1
Cholangiofibrosis				22 2.5
Degeneration, Cystic				2 1.0
Eosinophilic Focus, Multiple	X	X		41

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Lab: BAT

DAY ON TEST	0	0	* TOTALS
	6	7	
SPRAGUE-DAWLEY RATS FEMALE	9	3	
	9	3	
ANIMAL ID	0	0	
4600 UG/KG	0	0	
	7	7	
	7	8	
	9	0	
Fatty Change, Diffuse	3	3	48 2.5
Hematopoietic Cell Proliferation			21 1.0
Hyperplasia, Nodular	X	X	43
Inflammation	1	1	44 1.3
Mixed Cell Focus			1
Mixed Cell Focus, Multiple			6
Necrosis		1	22 1.7
Pigmentation	2	2	48 1.7
Toxic Hepatopathy	4		46 3.4
Bile Duct, Cyst			21 2.1
Bile Duct, Hyperplasia	2	2	40 1.9
Centrilobular, Degeneration			1 3.0
Hepatocyte, Hypertrophy	4	3	48 3.5
Hepatocyte, Multinucleated	2	1	43 1.7
Oval Cell, Hyperplasia	3	3	46 3.0
Mesentery	+		9
Artery, Inflammation, Chronic Active	3		8 3.0
Artery, Thrombosis			1 3.0
Fat, Necrosis			1 3.0
Oral Mucosa			3
Gingival, Cyst			1 3.0
Pancreas	+	+	47
Inflammation, Chronic Active			2 2.0
Acinus, Atrophy, Focal			1 1.0
Acinus, Atrophy, Diffuse			1 3.0
Acinus, Vacuolization Cytoplasmic	1	3	42 2.2
Artery, Inflammation, Chronic Active	3		12 2.1

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First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0		
	6	7		
	9	3		
	9	3		
SPRAGUE-DAWLEY RATS FEMALE 4600 UG/KG	0	0		
	0	0		
	7	7		
	7	8		
	9	0		
				* TOTALS
Duct, Dilatation	4			3 4.0
Duct, Inflammation	3			2 3.0
Duct, Necrosis	3			1 3.0
Salivary Glands	+	+		51
Stomach, Forestomach	+	+		51
Hyperplasia, Squamous				3 1.7
Inflammation				1 2.0
Artery, Inflammation, Chronic Active				1 3.0
Stomach, Glandular	+	+		51
Artery, Inflammation, Chronic Active				1 2.0
Tooth				7
Peridental Tissue, Inflammation				6 1.8

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+		51
Heart	+	+		50
Cardiomyopathy				16 1.1
Inflammation				1 1.0
Artery, Inflammation, Chronic Active				1 2.0
Coronary Artery, Thrombosis				1 2.0
Endocardium, Hyperplasia				2 1.5
Epicardium, Fibrosis				1 3.0

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First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0 6 9 9	0 7 3 3
SPRAGUE-DAWLEY RATS	0 0 7 7	0 0 7 8
FEMALE		
ANIMAL ID		
4600 UG/KG	9 0	

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

NONE

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† .. Tissue examined microscopically

x ... Lesion present

| .. 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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2) Mild 4) Marked

TDMS No. 20304 - 01

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Lab: BAT

DAY ON TEST	0 6 9 9	0 7 3 3
SPRAGUE-DAWLEY RATS	0 0 7	0 0 7
FEMALE		
ANIMAL ID	7 8 9	8 0
4600 UG/KG		

GENITAL SYSTEM

Clitoral Gland	+	+			49
Inflammation					13 1.2
Duct, Cyst	2	2			30 1.9
<hr/>					
Ovary	+	+			48
Cyst					7 2.3
Inflammation					2 3.5
<hr/>					
Uterus	+	+			49
Adenomyosis					1 4.0
Cyst					1 3.0
Hemorrhage					1 2.0
Inflammation					4 2.8
Metaplasia, Squamous					5 1.4
Endometrium, Hyperplasia, Cystic	1				9 2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+		52
Hyperplasia	4	2		47 3.0
Necrosis				1 3.0
<hr/>				
Lymph Node	+			2
Bronchial, Ectasia				1 2.0

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

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First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	* TOTALS
	6	7	
SPRAGUE-DAWLEY RATS FEMALE 4600 UG/KG	9	3	
	9	3	
Bronchial, Hemorrhage			1 1.0
Lymph Node, Mandibular Atrophy	+	+	51 1 4.0
Hyperplasia, Lymphoid			1 3.0
Hyperplasia, Plasma Cell			19 1.7
Lymph Node, Mesenteric Ectasia	+	+	47 1 2.0
Spleen	+	+	47
Hematopoietic Cell Proliferation			34 1.6
Pigmentation		2	28 1.6
Lymphoid Follicle, Atrophy	2		3 2.0
Red Pulp, Atrophy	2		3 2.0
Thymus	+	+	49
Atrophy	4	4	44 3.3
Hemorrhage			3 2.0
Artery, Inflammation, Chronic Active			2 3.0

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia	+	+	50 1 2.0
Skin	+	+	51

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Lab: BAT

		0	0
DAY ON TEST		6	7
		9	3
		9	3
SPRAGUE-DAWLEY RATS		0	0
FEMALE		0	0
ANIMAL ID		7	7
4600 UG/KG		7	8
		9	0
			* TOTALS

MUSCULOSKELETAL SYSTEM

Bone	+	+	52
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NERVOUS SYSTEM

Brain	+	+	52
Spinal Cord Nerve, Degeneration			1 3.0

RESPIRATORY SYSTEM

Lung	+	+	50
Hemorrhage			1 2.0
Inflammation			2 1.5
Metaplasia, Squamous	3		13 2.2
Pigmentation			1 1.0
Alveolar Epithelium, Metaplasia, Bronchiolar	2		40 2.0
Alveolus, Infiltration Cellular, Histiocyte	1		40 1.5
Artery, Mediastinum, Inflammation, Chronic Active			1 2.0
Nose	+	+	52
Inflammation	2		23 1.7

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	DAY ON TEST	0	0	
		6	7	
		9	3	
		9	3	
<hr/>				
SPRAGUE-DAWLEY RATS		0	0	
FEMALE		0	0	
	ANIMAL ID	7	7	
4600 UG/KG		7	8	
		9	0	* TOTALS

Nasolacrimal Duct, Inflammation, Suppurative	1	3.0
Olfactory Epithelium, Degeneration	1	2.0
Olfactory Epithelium, Metaplasia	1	2.0
Respiratory Epithelium, Hyperplasia	27	1.3

Trachea Inflammation	+	+	52	1	1.0
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SPECIAL SENSES SYSTEM

Eye Retina, Atrophy	+	+	52	6	2.0
Harderian Gland Infiltration Cellular, Mononuclear Cell	+	+	52	13	1.0

URINARY SYSTEM

Kidney	+	+	50		
Cyst				1	3.0
Mineralization	1	1		25	1.0
Nephropathy	3	2		46	2.2
Pigmentation	2	3		42	2.2
Pelvis, Inflammation				2	1.5
Transitional Epithelium, Hyperplasia				3	2.3

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x .. Lesion present

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Lab: BAT

DAY ON TEST	0	0
	6	7
	9	3
	9	3
SPRAGUE-DAWLEY RATS	0	0
FEMALE	0	0
	7	7
ANIMAL ID	7	8
4600 UG/KG	9	0
Urinary Bladder	+	+
		* TOTALS
		50

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+ .. Tissue examined microscopically

M., Missing tissue

x .. Lesion present

A.. Autolysis precludes evaluation

X .. Eosin present
I .. Insufficient tissue

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CARDIOVASCULAR SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

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ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

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Lab: BAT

NONE

GENITAL SYSTEM

Clitoral Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous																						
Inflammation		1	1	2			3		1	1		1	1	1		1	1	1	1	1	2	
Duct, Cyst					2	2		3				3		1	2	1	2	3		1	2	1
<hr/>																						
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																						
Inflammation		2					2					2					3			2		
<hr/>																						
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																						
Inflammation																						
Metaplasia, Squamous		2					2		1	2	2	3					1	2		2	1	1
Endometrium, Hyperplasia, Cystic							4		2	2	1					4		2		1	3	2

HEMATOPOIETIC SYSTEM

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		DAY ON TEST																				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	7	7	6	3	7	7	7	7	4	7	7	6	7	6	6	5	7	7	7	5
		7	3	3	5	0	3	3	3	3	3	1	1	9	3	3	7	4	3	3	2	3
		1	4	5	7	2	3	4	3	5	3	8	3	4	3	0	1	5	3	4	5	9
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4600 UG/KG STOP		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
		females (cont...)																				
Hyperplasia, Plasma Cell		1	2	1			2	1	1	2						2		2		2	2	
Lymph Node, Mesenteric Atrophy		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage		2																				
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation		1	2	2	2	3	1	1	2	2	1	2	2	3	1	3	3	3	1	1	2	3
Pigmentation		3	2	3	3	1	3	1	1	2	2	3	3	1	1	2	2	2	1	1	2	2
Lymphoid Follicle, Atrophy																						
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy		4	3	3	4	3	2	2	3	4	2	4	4	4	2	3	4	2	4	2	3	9

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

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

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x ... Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as

1-4 ... Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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First Dose M/F: NA / 03/26/04

Lab: BAT

SPECIAL SENSES SYSTEM

URINARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

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Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

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

+ .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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CARDIOVASCULAR SYSTEM

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+ .. Tissue examined microscopically

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.. Lesion present
 Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 20304 - 01

Test Type: CHRONIC

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Lab: BAT

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

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| .. Insufficient tissue

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NONE

GENITAL SYSTEM

Clitoral Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Hyperplasia, Squamous																				1 2.0	
Inflammation				1		1	1	1		1	1	1	1		2		2	1	3	1	29 1.3
Duct, Cyst					1		1	1		2	2		2	1	1	2	3	2	2	2	28 1.8
<hr/>																					
Ovary	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Cyst					3		3			3		3			2						10 2.5
Inflammation						3															1 3.0
<hr/>																					
Uterus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hemorrhage																					2 2.5
Inflammation					3		2		3			1		2		2					10 2.1
Metaplasia, Squamous								4	1	1	2		1		1	1	1	1	1		23 1.6
Endometrium, Hyperplasia, Cystic									4	1		4	4	4	2	4	2	2			21 2.7

HEMATOPOIETIC SYSTEM

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TDMS No. 20304 - 01

Test Type: CHRONIC

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Species/Strain: RATS/SD

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INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

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.. Lesion present
 Insufficient tissue

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TDMS No. 20304 - 01

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: BAT

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
.....																							
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Mononuclear Cell										1												1	11 1.0

URINARY SYSTEM

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I .. Insufficient tissue

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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*** END OF REPORT ***

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| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked