

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: 06/24/2008

Time Report Requested: 13:42:49

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

Lab: BAT

53 Wk_SSAC_R8

C Number: C20304

Lock Date: 10/12/2006

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25017 SSAC

Removal Date Range: 30-Mar-2005 - 30-Mar-2005

Treatment Groups: Include 001 0 UG/KG

Include 002 10 UG/KG

Include 003 30 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

Study Gender: Female

TDMSE Version: 2.0.0

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DAY ON TEST	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0

**SPRAGUE-DAWLEY RATS
 FEMALE**

0 UG/KG

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	1	1	1	2
2	3	4	5	7	8	9	0

*** TOTALS**

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	8	
Clear Cell Focus	X									1
Clear Cell Focus, Multiple			X				X	X		3
Inflammation	2	1	1	1	1	1	1	1	8	1.1
Mixed Cell Focus				X						1
Bile Duct, Hyperplasia	1								1	1.0
Hepatocyte, Hypertrophy				1	1				2	1.0
Pancreas	+	+	+	+	+	+	+	+	8	
Basophilic Focus					X					1
Stomach, Forestomach	+	+	+	+	+	+	+	+	8	
Stomach, Glandular	+	+	+	+	+	+	+	+	8	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	8	
Hyperplasia	2									1 2.0
Hypertrophy		1		1		1	1	1		5 1.0
Vacuolization Cytoplasmic	3									1 3.0

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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

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	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0
0 UG/KG	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	1	1	1	2
	2	3	4	5	7	8	9	0
	* TOTALS							

Adrenal Medulla	+	+	+	+	+	+	+	+	8
Pituitary Gland	+	+	+	+	+	+	+	+	8
Angiectasis								2	1 2.0
Pars Distalis, Hyperplasia								3	1 3.0
Thyroid Gland	+	+	+	+	+	+	+	+	8
C-cell, Hyperplasia				1					1 1.0
Follicular Cell, Hypertrophy	1								1 1.0

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	8
Uterus	+	+	+	+	+	+	+	+	8
Inflammation, Suppurative	3			1	1				3 1.7
Metaplasia, Squamous	3		2	3	3	2		2	6 2.5
Endometrium, Hyperplasia, Cystic	4		3		2			2	4 2.8
Vagina	+	+	+	+	+	+	+	+	8
Inflammation, Chronic Active	3								1 3.0
Necrosis	2								1 2.0

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	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0

**SPRAGUE-DAWLEY RATS
 FEMALE**

0 UG/KG

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	1	1	1	2
2	3	4	5	7	8	9	0

*** TOTALS**

HEMATOPOIETIC SYSTEM

Spleen	+	+	+	+	+	+	+	+	8	
Pigmentation	1	2	1	1	1	1	1	2		8 1.3
Thymus	+	+	+	+	+	+	+	+	8	
Atrophy	2	2	2	1	1	2	2	2		8 1.8
Cyst							2			1 2.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	8	
---------------	---	---	---	---	---	---	---	---	---	--

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	8	
Inflammation	1									1 1.0
Alveolus, Infiltration Cellular, Histiocyte	2							1		2 1.5

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x .. Lesion present

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	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0

**SPRAGUE-DAWLEY RATS
 FEMALE**

0 UG/KG

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	1	1	1	2
2	3	4	5	7	8	9	0

*** TOTALS**

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0
.....									
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1
ANIMAL ID	0	0	0	1	2	2	2	2	2
10 UG/KG	6	8	9	0	1	2	3	4	
									* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	8	
Cholangiofibrosis					1					1 1.0
Clear Cell Focus		X				X		X		3
Clear Cell Focus, Multiple	X									1
Inflammation	1	1	1		1	1	1	1		7 1.0
.....										
Pancreas	+	+	+	+	+	+	+	+	8	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	8	
Hypertrophy	1	1	1	1		2	1	1		7 1.1
.....										
Adrenal Medulla	+	+	+	+	+	+	+	+	8	
.....										
Thyroid Gland	+	+	+	+	+	+	+	+	8	

GENERAL BODY SYSTEM

NONE

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	7	7	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	0	0	0
SPRAGUE-DAWLEY RATS	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
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1
10 UG/KG	0	0	0	1	2	2	2	2	2	2	2	2
	6	8	9	0	1	2	3	4				
	* TOTALS											

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	8		
Inflammation					1					1	1.0
Inflammation, Suppurative			1							1	1.0
Metaplasia, Squamous	3	2	1	1	1				5	1.6	
Endometrium, Hyperplasia, Cystic		2	3		3				3	2.7	

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	8		
Atrophy	3	2	3	2	2	3	3	2		8	2.5

INTEGUMENTARY SYSTEM

Mammary Gland	+							+	2		
Cyst	3							3		2	3.0

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

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		3	3	3	3	3	3	3	3
		7	7	7	7	7	7	7	7
		0	0	0	0	0	0	0	0
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0
ANIMAL ID		1	1	1	1	1	1	1	1
10 UG/KG		0	0	0	1	2	2	2	2
		6	8	9	0	1	2	3	4
									* TOTALS

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	8	
Alveolus, Infiltration Cellular, Histiocyte				1		1				2 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney									1	
Infarct										1 2.0
Nephropathy										1 2.0
Pelvis, Dilatation										1 2.0
Pelvis, Inflammation										1 2.0
Transitional Epithelium, Hyperplasia										1 2.0

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	3	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	0
<hr/>										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
30 UG/KG	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	1	2	2	2	2	3
	6	7	8	9	0	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus			X		X							2
Clear Cell Focus, Multiple	X											1
Inflammation		1	1	1	1	1	1		1			8 1.0
Bile Duct, Cyst							2					1 2.0
Hepatocyte, Hypertrophy			1					1	1	2		4 1.3
<hr/>												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Hypertrophy	1	1		1		1		1		1		6 1.0
<hr/>												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
<hr/>												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cell, Hypertrophy									1			1 1.0

GENERAL BODY SYSTEM

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	3	3	3	3	3	3	3	3	3	3	
	7	7	7	7	7	7	7	7	7	7	
	0	0	0	0	0	0	0	0	0	0	
.....											
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	1	2	2	2	2	3	
30 UG/KG	6	7	8	9	0	6	7	8	9	0	* TOTALS

NONE

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative				1	1	1						3 1.0
Metaplasia, Squamous		2		2	2	2	1		1	1		7 1.6
Endometrium, Hyperplasia, Cystic		2		2	2	2	1		1			6 1.7

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	+	+	10	
Atrophy	2	1	3	1	3	3	2	3	3	2		10 2.3

INTEGUMENTARY SYSTEM

Mammary Gland	+						+				2	
---------------	---	--	--	--	--	--	---	--	--	--	---	--

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

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	3	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	0

**SPRAGUE-DAWLEY RATS
 FEMALE**

30 UG/KG

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
2	2	2	2	2	2	2	2	2	2	2
0	0	0	0	1	2	2	2	2	2	3
6	7	8	9	0	6	7	8	9	0	

*** TOTALS**

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation				1							1 1.0
Alveolus, Infiltration Cellular, Histiocyte	1			1			1	2			4 1.3

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0

SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	5	5	5	6
100 UG/KG	1	3	4	5	6	7	9	0

*** TOTALS**

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	8	
Clear Cell Focus	X	X	X		X					4
Clear Cell Focus, Multiple				X						1
Inflammation	1			1		1	1	1		5 1.0
Bile Duct, Cyst								1		1 1.0
Hepatocyte, Hypertrophy	1	1			1	1		1		5 1.0
Pancreas	+	+	+	+	+	+	+	+	8	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	8	
Degeneration, Cystic								1		1 1.0
Hypertrophy		1		1	1		2			4 1.3
Adrenal Medulla	+	+	+	+	+	+	+	+	8	
Thyroid Gland	+	+	+	+	+	+	+	+	8	
C-cell, Hyperplasia								1		1 1.0
Follicular Cell, Hypertrophy							1			1 1.0

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	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0
.....									
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	5	5	5	5	6
100 UG/KG	1	3	4	5	6	7	9	0	
									* TOTALS

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	8	
Inflammation, Suppurative		1	1	1				1		4 1.0
Metaplasia, Squamous	1	1	1	2		1	2	1		7 1.3
Endometrium, Hyperplasia, Cystic	3	2	3			2		1		5 2.2

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	8	
Atrophy	1	2	2	2	2	2	2	2		8 1.9

INTEGUMENTARY SYSTEM

Mammary Gland									1	
---------------	--	--	--	--	--	--	--	--	---	--

MUSCULOSKELETAL SYSTEM
 NONE

NERVOUS SYSTEM
 NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 13

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	
	7	7	7	7	7	7	7	7	
	0	0	0	0	0	0	0	0	
.....									
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	5	5	5	6	
100 UG/KG	1	3	4	5	6	7	9	0	* TOTALS

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	8
Alveolus, Infiltration Cellular, Histiocyte			1				2		2 1.5

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 14

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

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

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	8	
Clear Cell Focus				X			X			2
Clear Cell Focus, Multiple			X		X	X				3
Inflammation	1	1	1	1	1	1	1	1	8	1.0
Hepatocyte, Hypertrophy	1	1	1	1			1	1	6	1.0
<hr/>										
Pancreas	+	+	+	+	+	+	+	+	8	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	8	
Hypertrophy	1	1	1	1				2		5 1.2
<hr/>										
Adrenal Medulla	+	+	+	+	+	+	+	+	8	
<hr/>										
Thyroid Gland	+	+	+	+	+	+	+	+	8	
Follicular Cell, Hypertrophy			1							1 1.0

GENERAL BODY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 15

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

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

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	8	
Inflammation, Suppurative		1		1			1			3 1.0
Metaplasia, Squamous	2	2		2			2			4 2.0
Endometrium, Hyperplasia, Cystic		2		1			2	1		4 1.5

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	8	
Atrophy	2	2	2	2	3	1	2	3		8 2.1

INTEGUMENTARY SYSTEM

Mammary Gland		+	+							2
---------------	--	---	---	--	--	--	--	--	--	---

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY 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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

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

Lung	+	+	+	+	+	+	+	+	8
Alveolus, Infiltration Cellular, Histiocyte	1	1					1		3 1.0

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM
 NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 17

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

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

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	8	
Clear Cell Focus	X	X			X	X		X		5
Inflammation	1	1	1	1	1	1	1	2		8 1.1
Mixed Cell Focus		X								1
Necrosis								1		1 1.0
Pigmentation	1			1	1	1				4 1.0
Hepatocyte, Hypertrophy	1	1		1	1	1	1	1		7 1.0
<hr/>										
Pancreas	+	+	+	+	+	+	+	+	8	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	8	
Hypertrophy			1	1	1	1	1			5 1.0
<hr/>										
Adrenal Medulla	+	+	+	+	+	+	+	+	8	
<hr/>										
Thyroid Gland	+	+	+	+	+	+	+	+	8	
C-cell, Hyperplasia	1									1 1.0
Follicular Cell, Hypertrophy			2		1	1	1	1		5 1.2

* .. 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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

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

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	8	
Dilatation							4			1 4.0
Inflammation, Suppurative	1	1		1						3 1.0
Metaplasia, Squamous	2	2	2	2						4 2.0
Endometrium, Hyperplasia, Cystic	2	2		1						3 1.7

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	8	
Atrophy	3	2	3	2	2	2	3	2		8 2.4

INTEGUMENTARY SYSTEM
 NONE

MUSCULOSKELETAL SYSTEM
 NONE

NERVOUS SYSTEM
 NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Page 19

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	8
Alveolus, Infiltration Cellular, Histiocyte	1		1	1			1		4 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6
	1	1	1	1	4	4	4	5
	6	7	8	9	7	8	9	0
1000 UG/KG								
								* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	8	
Clear Cell Focus						X		X		2
Clear Cell Focus, Multiple	X	X	X	X	X		X		6	
Hepatodiaphragmatic Nodule		X							1	
Inflammation	1	1	2	1	1	1	1	2	8	1.3
Mixed Cell Focus, Multiple								X	1	
Necrosis			1					1	2	1.0
Pigmentation	1	1	1	1		2	1	2	7	1.3
Centrilobular, Degeneration						2			1	2.0
Hepatocyte, Hypertrophy	1	1	1	1	1	1	1	2	8	1.1
Hepatocyte, Multinucleated								1	1	1.0
Pancreas	+	+	+	+	+	+	+	+	8	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	8	
Degeneration, Cystic					2					1 2.0
Hypertrophy	2			1	2	1	1		5	1.4
Vacuolization Cytoplasmic								1	1	1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	8	

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 21

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0									
	3	3	3	3	3	3	3	3									
	7	7	7	7	7	7	7	7									
	0	0	0	0	0	0	0	0									
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0									
FEMALE	0	0	0	0	0	0	0	0									
ANIMAL ID	6	6	6	6	6	6	6	6									
	1	1	1	1	4	4	4	5									
1000 UG/KG	6	7	8	9	7	8	9	0									
																	* TOTALS

Thyroid Gland	+	+	+	+	+	+	+	+									8
Follicular Cell, Hypertrophy		1			1	1	3	1									5 1.4

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+									8
Dilatation		4	4	4		4											4 4.0
Inflammation, Suppurative		1	1	1		1		1									5 1.0
Metaplasia, Squamous	2						2	2									3 2.0
Endometrium, Hyperplasia, Cystic	2			1			2	3									4 2.0

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+									8
Atrophy	2	1	3	3	2	2	2	3									8 2.3

INTEGUMENTARY SYSTEM

Mammary Gland								+									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
 Page 22

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

	0	0	0	0	0	0	0	0	0
DAY ON TEST	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0
.....									
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6
ANIMAL ID	1	1	1	1	4	4	4	4	5
1000 UG/KG	6	7	8	9	7	8	9	0	
									* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	8
Alveolus, Infiltration Cellular, Histiocyte				1	1		1		3 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 23

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	
	7	7	7	7	7	7	7	7	
	0	0	0	0	0	0	0	0	
<hr/>									
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	
ANIMAL ID	3	3	3	3	5	5	5	5	
4600 UG/KG	1	2	3	4	1	2	4	5	
									* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	8	
Cholangiofibrosis	2		2			2		1		4 1.8
Eosinophilic Focus	X						X	X		3
Eosinophilic Focus, Multiple			X							1
Fatty Change, Diffuse	3	2	2	3	3	2	3	4		8 2.8
Hyperplasia, Nodular			X	X			X			3
Inflammation	1	2	2	1	2	2	2	2		8 1.8
Mixed Cell Focus, Multiple		X	X	X	X	X	X	X		7
Necrosis			1							1 1.0
Pigmentation	2	2	1	2	2	2	2	1		8 1.8
Toxic Hepatopathy	2	2	2	2	2	2	2	2		8 2.0
Bile Duct, Hyperplasia	1		2	1	1	1		1		6 1.2
Hepatocyte, Hypertrophy	3	2	3	3	3	3	3	3		8 2.9
Hepatocyte, Multinucleated	1	1	2	1	1	1	1			7 1.1
Oval Cell, Hyperplasia	1	1	2	2	2	1	1	1		8 1.4
<hr/>										
Pancreas	+	+	+	+	+	+	+	+	8	
Acinus, Vacuolization Cytoplasmic	2	1	2	1	1	2	1	1		8 1.4
<hr/>										
Stomach, Forestomach	+	+	+	+	+	+	+	+	8	
<hr/>										
Stomach, Glandular	+	+	+	+	+	+	+	+	8	

CARDIOVASCULAR SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 24

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0

SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7
ANIMAL ID	3	3	3	3	5	5	5	5
	1	2	3	4	1	2	4	5

4600 UG/KG *** TOTALS**

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	8	
Atrophy		2		2						2 2.0
Degeneration, Cystic		3			4	2				3 3.0
Hyperplasia	1			2		2	2			4 1.8
Hypertrophy			1	2	1		1			4 1.3
Adrenal Medulla	+	+	+	+	+	+	+	+	8	
Pituitary Gland	+	+	+	+	+	+	+	+	8	
Pars Distalis, Hyperplasia				2						1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	8	
Follicular Cell, Hypertrophy	3		2	2	2	2	2	1		7 2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	8	
Uterus	+	+	+	+	+	+	+	+	8	
Inflammation, Suppurative			1					1		2 1.0
Metaplasia, Squamous	1			1			1	1		4 1.0

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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: 06/24/2008
 Time Report Requested: 13:42:49
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3		
		7	7	7	7	7	7	7	7		
		0	0	0	0	0	0	0	0		
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0		
FEMALE		0	0	0	0	0	0	0	0		
ANIMAL ID		7	7	7	7	7	7	7	7		
4600 UG/KG		3	3	3	3	5	5	5	5		
		1	2	3	4	1	2	4	5	* TOTALS	
Endometrium, Hyperplasia, Cystic				2		2		3		3 2.3	
Vagina		+		+		+		+		8	
HEMATOPOIETIC SYSTEM											
Spleen		+		+		+		+		8	
Pigmentation		1	2	2	2	2	2	2	1	8 1.8	
Thymus		+		+		+		+		8	
Atrophy		3	2	3	2	3	2	3	2	8 2.5	
INTEGUMENTARY SYSTEM											
Mammary Gland		+		+		+		+		8	
MUSCULOSKELETAL SYSTEM											
NONE											
NERVOUS SYSTEM											
NONE											
RESPIRATORY SYSTEM											
.....											

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TDMS No. 20304 - 01
 Test Type: CHRONIC
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DAY ON TEST		0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3
		7	7	7	7	7	7	7	7
		0	0	0	0	0	0	0	0
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0
ANIMAL ID		7	7	7	7	7	7	7	7
4600 UG/KG		3	3	3	3	5	5	5	5
		1	2	3	4	1	2	4	5
* TOTALS									
Lung		+	+	+	+	+	+	+	+
Inflammation			1						
Alveolar Epithelium, Hyperplasia					1				
Alveolar Epithelium, Metaplasia, Bronchiolar		1		2			1		
Alveolus, Infiltration Cellular, Histiocyte		1		1			1		
									8
									1 1.0
									1 1.0
									3 1.3
									3 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

*** END OF REPORT ***

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