

**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:** 13:37:02  
**First Dose M/F:** NA / 03/26/04  
**Lab:** BAT

14 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-Jun-2004 - 30-Jun-2004

**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	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7

**SPRAGUE-DAWLEY RATS  
 FEMALE**

ANIMAL ID

**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
2	2	2	2	2	3	3	3	3	3	3
1	2	3	4	5	1	2	3	4	5	

**\* TOTALS**

**ALIMENTARY SYSTEM**

Liver Inflammation	+	+	+	+	+	+	+	+	+	+	10	9	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10		
Stomach, Glandular Erosion	+	+	+	+	+	+	+	+	+	+	10	1	2.0

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10		
Thyroid Gland Follicular Cell, Hypertrophy	+	+	+	+	+	+	+	+	+	+	10	1	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

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Page 2

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7

**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	0	0	0	0	0
2	2	2	2	2	3	3	3	3	3	3
1	2	3	4	5	1	2	3	4	5	

**\* TOTALS**

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Ovary	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Vagina	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**HEMATOPOIETIC SYSTEM**

Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	<b>6 1.0</b>
Pigmentation	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Thymus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
---------------	---	---	---	---	---	---	---	---	---	---	-----------

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	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7

**SPRAGUE-DAWLEY RATS  
 FEMALE**

ANIMAL ID

**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
2	2	2	2	2	3	3	3	3	3	3
1	2	3	4	5	1	2	3	4	5	

**\* TOTALS**

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung

+	+	+	+	+	+	+	+	+	+	+
---	---	---	---	---	---	---	---	---	---	---

**10**

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
<b>10 UG/KG</b>	1	1	1	1	1	1	1	1	1	1	
<b>ANIMAL ID</b>	0	0	0	0	0	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hypertrophy	1					1					<b>2 1.0</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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	0	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7	7	7
.....												
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	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
<b>10 UG/KG</b>	0	0	0	0	0	0	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0		
												<b>* TOTALS</b>
Uterus	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
.....												
<b>HEMATOPOIETIC SYSTEM</b>												
Thymus	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
.....												
<b>INTEGUMENTARY SYSTEM</b>												
NONE												
.....												
<b>MUSCULOSKELETAL SYSTEM</b>												
NONE												
.....												
<b>NERVOUS SYSTEM</b>												
NONE												
.....												
<b>RESPIRATORY SYSTEM</b>												
Lung	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation				1								<b>1 1.0</b>
Alveolus, Infiltration Cellular, Histiocyte									1			<b>1 1.0</b>
Serosa, Inflammation, Chronic Active		3										<b>1 3.0</b>
.....												
<b>SPECIAL SENSES SYSTEM</b>												
NONE												

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	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
.....											
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
ANIMAL ID	0	0	0	0	0	1	1	1	1	2	
<b>10 UG/KG</b>	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**URINARY SYSTEM**  
 NONE

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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	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	1	1	1	1	1	2	2	2	2	2	
<b>30 UG/KG</b>	1	2	3	4	5	1	2	3	4	5	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Hepatocyte, Hypertrophy							1				<b>1 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Follicular Cell, Hypertrophy				2							<b>1 2.0</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7	7
.....											
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	1	1	1	1	1	2	2	2	2	2	2
<b>30 UG/KG</b>	1	2	3	4	5	1	2	3	4	5	
											<b>* TOTALS</b>
.....											
Uterus	+	+	+	+	+	+	+	+	+	+	10
.....											
<b>HEMATOPOIETIC SYSTEM</b>											
.....											
Thymus	+	+	+	+	+	+	+	+	+	+	10
.....											
<b>INTEGUMENTARY SYSTEM</b>											
NONE											
.....											
<b>MUSCULOSKELETAL SYSTEM</b>											
NONE											
.....											
<b>NERVOUS SYSTEM</b>											
NONE											
.....											
<b>RESPIRATORY SYSTEM</b>											
.....											
Lung	+	+	+	+	+	+	+	+	+	+	10
.....											
<b>SPECIAL SENSES SYSTEM</b>											
NONE											
.....											

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
.....											
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	1	1	1	1	1	2	2	2	2	2	
<b>30 UG/KG</b>	1	2	3	4	5	1	2	3	4	5	<b>* TOTALS</b>

**URINARY SYSTEM**  
 NONE

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	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7
.....										
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	3	3	3	3	3	4	4	4	4	4
<b>100 UG/KG</b>	1	2	3	4	5	1	2	3	4	5
										<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hepatodiaphragmatic Nodule						X		X			<b>2</b>
Inflammation	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Hepatocyte, Hypertrophy								1			<b>1 1.0</b>
.....											
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**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

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	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7	7
<hr/>											
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	3	3	3	3	3	4	4	4	4	4	4
<b>100 UG/KG</b>	1	2	3	4	5	1	2	3	4	5	
											<b>* TOTALS</b>

Uterus	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**HEMATOPOIETIC SYSTEM**

Thymus	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hemorrhage			3									<b>1 3.0</b>
Alveolus, Infiltration Cellular, Histiocyte				1								<b>1 1.0</b>

**SPECIAL SENSES 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 12

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: 13:37:02  
 First Dose M/F: NA / 03/26/04  
 Lab: BAT

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7
.....										
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	3	3	3	3	3	4	4	4	4	4
<b>100 UG/KG</b>	1	2	3	4	5	1	2	3	4	5
										<b>* TOTALS</b>

**URINARY SYSTEM**  
 NONE

\* .. 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: 06/24/2008  
 Time Report Requested: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7

**SPRAGUE-DAWLEY RATS  
 FEMALE**

ANIMAL ID

**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
4	4	4	4	4	4	4	4	4	4	4
2	2	2	2	2	2	6	6	6	6	6
1	2	3	4	5	1	2	3	4	5	

**\* TOTALS**

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	10	
Inflammation	1	1	1	1	1	1	1	1	1	1		10 1.0
Hepatocyte, Hypertrophy	1	1				1	1			1		5 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10	

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Hypertrophy			1									1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
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

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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: 06/24/2008  
 Time Report Requested: 13:37:02  
 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	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
.....											
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	4	4	4	4	4	4	4	4	4	4	
	2	2	2	2	2	6	6	6	6	6	
220 UG/KG	1	2	3	4	5	1	2	3	4	5	* TOTALS

**GENITAL SYSTEM**

Uterus + + + + + + + + + + 10

**HEMATOPOIETIC SYSTEM**

Thymus + + + + + + + + + + 10

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung + + + + + + + + + + 10

**SPECIAL SENSES 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 15

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: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7

**SPRAGUE-DAWLEY RATS  
 FEMALE**

**220 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
4	4	4	4	4	4	4	4	4	4	4
2	2	2	2	2	6	6	6	6	6	6
1	2	3	4	5	1	2	3	4	5	

**\* TOTALS**

**URINARY SYSTEM**

NONE

\* .. 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: 06/24/2008  
 Time Report Requested: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7

**SPRAGUE-DAWLEY RATS  
 FEMALE**

**460 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
5	5	5	5	5	5	5	5	5	5	5
0	0	0	0	0	0	5	5	5	5	6
1	2	3	4	5	6	7	8	9	0	

**\* TOTALS**

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	10
Clear Cell Focus								X			1
Inflammation	2	2	1	2	1	1	1	1	1	1	10 1.3
Hepatocyte, Hypertrophy	1		1	1			1	1	1		6 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Follicular Cell, Hypertrophy	1	1									2 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

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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: 06/24/2008  
 Time Report Requested: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7
.....										
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	5	5	5	5	5	5	5	5	5	5
<b>460 UG/KG</b>	0	0	0	0	0	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>

**GENITAL SYSTEM**

Uterus + + + + + + + + + + **10**

**HEMATOPOIETIC SYSTEM**

Thymus + + + + + + + + + + **10**

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung + + + + + + + + + + **10**

**SPECIAL SENSES 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 18

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: 13:37:02  
 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	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
.....											
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	5	5	5	5	6	
<b>460 UG/KG</b>	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**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 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: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7
.....										
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	7	7	7	7	8
<b>1000 UG/KG</b>	1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Clear Cell Focus												<b>1</b>
Inflammation	2	2	2	2	2	2	2	2	2	2	<b>10</b>	<b>2.0</b>
Necrosis						1			1	1	<b>3</b>	<b>1.0</b>
Pigmentation	1	1						1	1	1	<b>5</b>	<b>1.0</b>
Hepatocyte, Hypertrophy	2	2	1	1		1	1	2	2	1	<b>9</b>	<b>1.4</b>
.....												
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>	

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Follicular Cell, Hypertrophy						1		1			<b>2</b>	<b>1.0</b>

**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 20

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: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7
.....										
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
ANIMAL ID	1	1	1	1	1	7	7	7	7	8
<b>1000 UG/KG</b>	1	2	3	4	5	6	7	8	9	0
										<b>* TOTALS</b>

**GENITAL SYSTEM**

Uterus + + + + + + + + + + **10**

**HEMATOPOIETIC SYSTEM**

Lymph Node + **1**

Thymus + + + + + + + + + + **10**

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung + + + + + + + + + + **10**

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7

**SPRAGUE-DAWLEY RATS  
 FEMALE**

ANIMAL ID

**1000 UG/KG**

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
6	6	6	6	6	6	6	6	6	6	6
1	1	1	1	1	7	7	7	7	7	8
1	2	3	4	5	6	7	8	9	0	

**\* TOTALS**

**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

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: 06/24/2008  
 Time Report Requested: 13:37:02  
 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
	9	9	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	7	7	7
.....										
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	7	7	7	7	7	7	7	7	7	7
	1	1	1	1	2	7	7	7	7	7
<b>4600 UG/KG</b>	6	7	8	9	0	1	2	3	4	5
										<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	10	
Eosinophilic Focus				X								1
Fatty Change, Diffuse	3	3	2	2	3	2	3	3	3	2	10	2.6
Inflammation	2	2	3	2	2	2	2	3	3	3	10	2.4
Necrosis	1	2	1	1	1	1	1		1	1	9	1.1
Pigmentation	1		1	1	1	1		1	1	1	8	1.0
Toxic Hepatopathy	1	1	1	1	1	1	1	1	1	1	10	1.0
Hepatocyte, Hypertrophy	3	3	3	3	3	3	2	3	3	3	10	2.9
Hepatocyte, Multinucleated	2	1	3	3	2	1	2	2	2	2	10	2.0
.....												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Acinus, Vacuolization Cytoplasmic				1								1 1.0
.....												
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
.....												
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
----------------	---	---	---	---	---	---	---	---	---	---	----	--

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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: 13:37:02

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		
	9	9	9	9	9	9	9	9	9	9		
	7	7	7	7	7	7	7	7	7	7		
.....												
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0		
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0		
	7	7	7	7	7	7	7	7	7	7		
ANIMAL ID	1	1	1	1	2	7	7	7	7	7		
<b>4600 UG/KG</b>	6	7	8	9	0	1	2	3	4	5		
												<b>* TOTALS</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+		<b>10</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		<b>10</b>
Follicular Cell, Hypertrophy	2			1			1	2				<b>4 1.5</b>

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Ovary	+	+	+	+	+	+	+	+	+	+		<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+		<b>10</b>
Vagina	+	+	+	+	+	+	+	+	+	+		<b>10</b>

**HEMATOPOIETIC SYSTEM**

Spleen	+	+	+	+	+	+	+	+	+	+		<b>10</b>
Pigmentation	1	1	1	1	1	1	1	1	1	1		<b>10 1.0</b>
Thymus	+	+	+	+	+	+	+	+	+	+		<b>10</b>
Atrophy		3										<b>1 3.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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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: 13:37:02  
 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	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
.....											
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	
	1	1	1	1	2	7	7	7	7	7	
<b>4600 UG/KG</b>	6	7	8	9	0	1	2	3	4	5	<b>* TOTALS</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation								1			<b>1 1.0</b>
Alveolus, Infiltration Cellular, Histiocyte				1							<b>1 1.0</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	7	7	7	7	7	7	7	7	7	7	
.....											
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	1	1	1	1	2	7	7	7	7	7	
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\*\*\* END OF REPORT \*\*\*

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