

**Experiment Number:** 91005-01  
**Test Type:** 18-33 DAYS  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Methylene blue trihydrate  
**CAS Number:** 7220-79-3

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 17:59:49  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C91005
<b>Lock Date:</b>	12/15/1992
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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Species/Strain: Rat/F 344/N

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Date Report Requested: 10/15/2014

Time Report Requested: 17:59:49

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 G/KG

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

\*TOTALS

Alimentary System

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

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	2	1	1	1	1		1		8 1.1

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
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\* ..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

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1) Minimal 3) Moderate

2) Mild 4) Marked

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Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	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	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1								1 1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1		2	1	1		2	2	8 1.4
Prostate	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active								2			1 2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10

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Route: GAVAGE

Species/Strain: Rat/F 344/N

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CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 G/KG

	DAY ON TEST										
	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	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	*TOTALS
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>											
Mammary Gland	+	+	+	+	+	+	+	+	M	+	9
Skin	+	+	+	+	+	+	+	+	+	+	10
<b>Musculoskeletal System</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10
Periosteum, Inflammation, Chronic Active			2								1 2.0
<b>Nervous System</b>											
Brain	+	+	+	+	+	+	+	+	+	+	10
<b>Respiratory System</b>											
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1	1							2 1.0
Nose	+	+	+	+	+	+	+	+	M	+	9
Trachea	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1								1 1.0
<b>Special Senses System</b>											
NONE											
<b>Urinary System</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	10

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

**F 344/N Rat Male**  
**0 G/KG**

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	3		
	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	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	1		
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>	
Mineralization	1	1	1	1	1	1	1	1	1	9	1.0	
Nephropathy	1		1		1	1		1		6	1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	10		

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CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0.125 G/KG

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

Alimentary System

Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hematopoietic Cell Proliferation			1		1	1	1	1	1		7 1.0
Inflammation, Chronic Active			1								1 1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Mineralization	1	1	1	1	1	1	1	1	1	1	10 1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1		1		1	1			6 1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Testes											+	1
Atrophy											4	1 4.0

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Lab: BAT

F 344/N Rat Male  
0.125 G/KG

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

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Hyperplasia			1	1	2	1	2	1		1	1	8	1.3
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0	
Pigmentation	1	2	2	2	2	2	2	2	2	2	10	1.9	
Thymus	+	+	+	+	+	+	+	+	+	+	10		

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Nose	+	+	+	+	+	+	+	+	+	+	10	
Foreign Body										X	1	
Inflammation, Suppurative					2				1	1	3	1.3

Special Senses System

NONE

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Route: GAVAGE

Species/Strain: Rat/F 344/N

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Date Report Requested: 10/15/2014

Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0.125 G/KG

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

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Mineralization	1	1	1	1	1	1	1	1	1	1	10 1.0
Nephropathy	1	1	1	1			1	1	1		7 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0.25 G/KG

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

Alimentary System

Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	
Mineralization		1	1	1		1	1	1		1	7	1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active	1	1		1	1		1		1		6	1.0

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
-------------	---	---	---	---	---	---	---	---	---	---	----	--

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Lab: BAT

F 344/N Rat Male  
0.25 G/KG

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	1	2	3	4	5	6	7	8	9	0		
Hyperplasia	2	2	2	2	2	2	2	2	2	2	10	2.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Capsule, Fibrosis	1	1	1	1	1	1	1		1	1	9	1.0
Hematopoietic Cell Proliferation	2	2	2	1	2	2	2	2	2	2	10	1.9
Pigmentation	2	2	2	2	2	2	2	1	2	2	10	1.9
Thymus	+	+	+	+	+	+	+	+	+	+	10	
<b>Integumentary System</b>												
NONE												
<b>Musculoskeletal System</b>												
NONE												
<b>Nervous System</b>												
NONE												
<b>Respiratory System</b>												
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative	2	3	3								3	2.7
<b>Special Senses System</b>												
NONE												
<b>Urinary System</b>												
Kidney	+	+	+	+	+	+	+	+	+	+	10	

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Date Report Requested: 10/15/2014  
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 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**0.25 G/KG**

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	3		
	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	0	0	0	0	0		
	2	2	2	2	2	2	2	2	2	3		
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>	
Mineralization	1	1	1	1	1	1	1	1	1	1	10	1.0
Nephropathy				1	1	1	1	1			5	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0.5 G/KG

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

\*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	M	+	9
Intestine Large, Cecum	+	+	+	+	+	+	+	+	M	+	9
Intestine Large, Colon	+	+	+	+	+	+	+	+	M	+	9
Intestine Large, Rectum	+	+	+	+	+	+	+	+	M	+	9
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	M	+	9
Intestine Small, Ileum	+	+	+	+	+	+	+	+	M	+	9
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	M	+	9
Liver	+	+	+	+	+	+	+	+	M	+	9
Centrilobular, Necrosis			3								1 3.0
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1		1	9 1.0
Kupffer Cell, Pigmentation			1		1		1			1	5 1.0
Pancreas	+	+	+	+	+	+	+	+	M	+	9
Atrophy									1		1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	M	+	9
Stomach, Forestomach	+	+	+	+	+	+	+	+	M	+	9
Hyperplasia										2	1 2.0
Inflammation, Chronic Active			2								1 2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	M	+	9
Inflammation, Chronic Active			2								1 2.0
Mineralization	1	1		1	1	1	1			1	7 1.0

Cardiovascular System

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0.5 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	1	3	3	3	3	3	0	3
	0	0	2	0	0	0	0	7	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	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
	<b>*TOTALS</b>									

Blood Vessel	+	+	+	+	+	+	+	+	M	+	9
Heart	+	+	+	+	+	+	+	+	M	+	9
Inflammation, Chronic Active	1		1				1				3 1.0
<b>Endocrine System</b>											
Adrenal Cortex	+	+	+	+	+	+	+	+	M	+	9
Adrenal Medulla	+	+	+	+	+	+	+	+	M	+	9
Islets, Pancreatic	+	+	+	+	+	+	+	+	M	+	9
Parathyroid Gland	+	M	+	+	+	+	+	+	M	+	8
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	M	+	9
<b>General Body System</b>											
NONE											
<b>Genital System</b>											
Epididymis	+	+	+	+	+	+	+	+	M	+	9
Preputial Gland	+	+	+	+	+	+	+	+	M	+	9
Inflammation, Chronic Active	1		3	1	1		1	2		2	7 1.6
Prostate	+	+	+	+	+	+	+	+	M	+	9
Seminal Vesicle	+	+	+	+	+	+	+	+	M	+	9
Testes	+	+	+	+	+	+	+	+	M	+	9
<b>Hematopoietic System</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0.5 G/KG

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

\*TOTALS

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	2	2	2	2	2	2	2	2	2	2	10	2.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	M	+	9	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	M	+	9	
Spleen	+	+	+	+	+	+	+	+	M	+	9	
Capsule, Fibrosis	1			1	1	1	1	1		1	7	1.0
Hematopoietic Cell Proliferation	2	2	3	2	2	2	2	2		3	9	2.2
Pigmentation	1	1	1	1				1	1	1	7	1.0
Thymus	+	+	+	+	+	+	+	+	M	+	9	
Necrosis			3								1	3.0
<b>Integumentary System</b>												
Mammary Gland	+	+	M	+	+	+	+	+	M	+	8	
Skin	+	+	+	+	+	+	+	+	+	+	10	
<b>Musculoskeletal System</b>												
Bone	+	+	+	+	+	+	+	+	+	+	10	
<b>Nervous System</b>												
Brain	+	+	+	+	+	+	+	+	+	+	10	
<b>Respiratory System</b>												
Lung	+	+	+	+	+	+	+	+	M	+	9	
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative			3				3			1	3	2.3

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0.5 G/KG

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

\*TOTALS

Trachea	+	+	+	+	+	+	+	+	M	+	9
<b>Special Senses System</b>											
NONE											
<b>Urinary System</b>											
Kidney	+	+	+	+	+	+	+	+	M	+	9
Casts Protein			2								1 2.0
Mineralization	1	1	1	1	1	1	1	1		1	9 1.0
Nephropathy		1			1	1	1	1			5 1.0
Renal Tubule, Pigmentation		1		1	1	1	1			1	6 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	M	+	9

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

+ ..Tissue examined microscopically

X ..Lesion present

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:50

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
1.0 G/KG

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

\*TOTALS

Alimentary System

Esophagus	M	+	+	+	+	+	+	+	+	+	9
Intestine Large, Cecum		+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon		+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum		+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum		+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum		+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum		+	+	+	+	+	+	+	+	+	10
Liver		+	+	+	+	+	+	+	+	+	10
Centrilobular, Necrosis							3	3	3		3 3.0
Hematopoietic Cell Proliferation			1	1						1	3 1.0
Kupffer Cell, Pigmentation			2	1		1				1	4 1.3
Mesentery									+		1
Inflammation, Suppurative								3			1 3.0
Pancreas		+	+	+	+	+	+	+	+	+	10
Salivary Glands	M	+	+	+	+	+	+	+	+	+	9
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	10
Inflammation						4				4	2 4.0
Stomach, Glandular		+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active					2						1 2.0
Mineralization					1		1	1			3 1.0
Necrosis								4			1 4.0

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
1.0 G/KG

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

\*TOTALS

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			3	3			1	1	1	3	6 2.0
Mineralization								2			1 2.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	M	+	+	+	+	M	+	+	+	+	8
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	M	+	+	+	+	+	+	+	+	+	9

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Hypospermia	1		1		1	1	1				5 1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1		1						2 1.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	M	+	+	+	+	9

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Male  
1.0 G/KG**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	0	1	1	0	0	0	0	0	0	0			
	6	0	0	6	5	6	5	7	7	9			
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			
	4	4	4	4	4	4	4	4	4	5			
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>		
Seminal Vesicle	+	+	+	+	+	M	+	+	+	+	9		
Testes	+	+	+	+	+	+	+	+	+	+	10		
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Hyperplasia	2	2	2	1	2	2	2	2	2	2	10	1.9	
Lymph Node, Mandibular	M	+	+	+	+	+	+	+	+	+	9		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation		2	2		1	1	1	2	1	2	8	1.5	
Lymph Follic, Depletion Cellular	2	3		3	2	2	1	2	3	2	9	2.2	
Pigmentation		2	2								2	2.0	
Thymus	+	+	M	+	+	+	+	+	+	+	9		
Atrophy								4			1	4.0	
Hemorrhage		1							3		2	2.0	
Necrosis	2			2	1	4	2		4	2	7	2.4	
<b>Integumentary System</b>													
Mammary Gland	+	M	+	+	M	+	+	+	+	+	8		
Skin	+	+	+	+	+	+	+	+	+	+	10		
<b>Musculoskeletal System</b>													
Bone	+	+	+	+	+	+	+	+	+	+	10		
<b>Nervous System</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

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
1.0 G/KG

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	1	1	0	0	0	0	0	0	0	
	6	0	0	6	5	6	5	7	7	9	
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	
	4	4	4	4	4	4	4	4	4	5	
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>
Brain	M	+	+	+	+	+	+	+	+	+	9
Peripheral Nerve			+					+			2
Spinal Cord			+					+			2
<b>Respiratory System</b>											
Lung		+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative		2			2	2		2			4 2.0
Trachea	M	+	+	+	+	+	+	+	+	+	9
<b>Special Senses System</b>											
Eye					+		+				2
<b>Urinary System</b>											
Kidney		+	+	+	+	+	+	+	+	+	10
Mineralization		1			1	1		1	1	1	7 1.0
Urinary Bladder		+	+	+	+	M	+	+	+	+	9

\* ..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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
2.0 G/KG

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	M	+	9
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Necrosis		3	2				3	3	2	3	6 2.7
Serosa, Inflammation	3	2						2		2	4 2.3
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Necrosis								2			1 2.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Centrilobular, Necrosis	3	3			3	2		3	3	3	7 2.9
Serosa, Inflammation	2										1 2.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Mineralization	1									1	2 1.0

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
2.0 G/KG

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		
	4	4	4	4	5	4	5	6	4	5		
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		
	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>	

Inflammation, Chronic Active	2							1	1	1	4	1.3
------------------------------	---	--	--	--	--	--	--	---	---	---	---	-----

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

**General Body System**

NONE

**Genital System**

Epididymis	+	+	+	+	+	+	+	+	+	+	10	
Hypospermia	1	1	1	1	1	1	1	1	1	1	10	1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active	1	1		2		2			2		5	1.6
Prostate	+	+	+	+	+	+	+	+	+	+	10	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	10	

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	3	2	2	2	2	2	2	1	2	2	10	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
2.0 G/KG

DAY ON TEST	ANIMAL ID										*TOTALS	
	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	0	0	0	0		
	4	4	4	4	5	4	5	6	4	5		
	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		
	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0		
Hyperplasia	3	2	2	2	2	2	2	1	2	2	10	2.0
Lymph Node, Mandibular	+	+	M	+	+	+	+	+	+	+	9	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic Cell Proliferation								1			1	1.0
Lymph Follic, Depletion Cellular	2	3	2	2	3		3	3	2	2	9	2.4
Thymus	+	+	+	+	+	+	+	M	+	+	9	
Hemorrhage				3		1				1	3	1.7
Necrosis	2	4	2	1	2	2	2		2	2	9	2.1
<b>Integumentary System</b>												
Mammary Gland	+	+	+	+	+	+	+	M	+	M	8	
Skin	+	+	+	+	+	+	+	+	+	+	10	
<b>Musculoskeletal System</b>												
Bone	+	+	+	+	+	+	+	+	+	+	10	
<b>Nervous System</b>												
Brain	+	+	+	+	+	+	+	+	+	+	10	
<b>Respiratory System</b>												
Lung	+	+	+	+	+	+	+	+	+	+	10	
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative			2					2			2	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
2.0 G/KG

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

Special Senses System

Eye											+	1	
Cornea, Degeneration											2		1 2.0

Urinary System

Kidney											+	+	+	+	+	+	+	+	+	+	10	
Mineralization											1	1	1	1	1	1	1	1		1	9	1.0
Urinary Bladder											+	+	+	+	+	+	+	+	+	+	10	

\*\*\*END OF MALE DATA\*\*\*

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01  
 Test Type: 18-33 DAYS  
 Route: GAVAGE  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Methylene blue trihydrate  
 CAS Number: 7220-79-3

Date Report Requested: 10/15/2014  
 Time Report Requested: 17:59:51  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**0 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
	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	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	7
	1	2	3	4	5	6	7	8	9	0
	<b>*TOTALS</b>									

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active						1					1 1.0

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	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



Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0 G/KG

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

Parathyroid Gland	+	+	+	+	+	+	M	+	+	M	8
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	2	1	2		2	1	2		1	1	8 1.5
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

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

Integumentary System

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

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

Experiment Number: 91005-01  
 Test Type: 18-33 DAYS  
 Route: GAVAGE  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Methylene blue trihydrate  
 CAS Number: 7220-79-3

Date Report Requested: 10/15/2014  
 Time Report Requested: 17:59:51  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**0 G/KG**

	DAY ON TEST										
	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	
	3	3	3	3	3	3	3	3	3	3	
	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	
	6	6	6	6	6	6	6	6	6	7	
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>
Bone	+	+	+	+	+	+	+	+	+	+	10
<b>Nervous System</b>											
Brain	+	+	+	+	+	+	+	+	+	+	10
<b>Respiratory System</b>											
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative			1								1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10
<b>Special Senses System</b>											
NONE											
<b>Urinary System</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Cyst							2				1 2.0
Mineralization	1	1	1	1	1	1	1	1	1	1	10 1.0
Nephropathy		1	1	1	1		1		1	1	7 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.125 G/KG

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

Alimentary System

Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hematopoietic Cell Proliferation				1			1				2 1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1				1	1					3 1.0

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia	2	1	2	1	2	2	2	2	2	2	10 1.8

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01  
 Test Type: 18-33 DAYS  
 Route: GAVAGE  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Methylene blue trihydrate  
 CAS Number: 7220-79-3

Date Report Requested: 10/15/2014  
 Time Report Requested: 17:59:51  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**0.125 G/KG**

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

**\*TOTALS**

Spleen	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0
Pigmentation	2	2	2	2	2	2	1	2	1	2	10	1.8
Thymus	+	+	+	+	+	+	+	+	+	+	10	
<b>Integumentary System</b>												
NONE												
<b>Musculoskeletal System</b>												
NONE												
<b>Nervous System</b>												
NONE												
<b>Respiratory System</b>												
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative		2	2	1	1	1	1		2		7	1.4
<b>Special Senses System</b>												
NONE												
<b>Urinary System</b>												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	1	1	1	1	1	1	1	1	1	2	10	1.1
Nephropathy				1		1		1		1	4	1.0

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01  
 Test Type: 18-33 DAYS  
 Route: GAVAGE  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Methylene blue trihydrate  
 CAS Number: 7220-79-3

Date Report Requested: 10/15/2014  
 Time Report Requested: 17:59:51  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**0.125 G/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	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	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:51

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.25 G/KG

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

Alimentary System

Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0
Kupffer Cell, Pigmentation		1									1	1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active					1					1	2	1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary									+		1
-------	--	--	--	--	--	--	--	--	---	--	---

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	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

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Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.25 G/KG

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	0	0	0	0	0	0	0	0	0	0		
Hyperplasia	2	2	1	2	2	2	2	2	2	2	10	1.9
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Capsule, Fibrosis	1	1			1	1	1	1	1		7	1.0
Hematopoietic Cell Proliferation	2	2	2	2	2	2	2	2	2	2	10	2.0
Pigmentation	2	1	2	2	2	1	2	2	2	2	10	1.8
Thymus	+	+	+	+	+	+	+	+	+	+	10	
<b>Integumentary System</b>												
NONE												
<b>Musculoskeletal System</b>												
NONE												
<b>Nervous System</b>												
NONE												
<b>Respiratory System</b>												
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative	1	2	1		2					2	5	1.6
<b>Special Senses System</b>												
NONE												
<b>Urinary System</b>												
Kidney	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.25 G/KG

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	3		
	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	0	0	0	0	0		
	8	8	8	8	8	8	8	8	8	8		
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>	
Mineralization	1	1	1	1	1	1	1	1	1	1	10	1.0
Nephropathy	1	1		1	1	1	1	1	1	1	9	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	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



Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.5 G/KG

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Centrilobular, Necrosis	3	3		3						3	4 3.0
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10 1.0
Kupffer Cell, Pigmentation	1	1	1	1		1	1	1	1	1	9 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	M	9
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia	3										1 3.0
Necrosis			1								1 1.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Atrium, Thrombosis							4	3			2 3.5

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.5 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	3	1	3	3	3	3	3	1	
	1	3	0	2	0	0	0	0	0	3	
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	1	
	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	
	<b>*TOTALS</b>										
Inflammation, Chronic Active	2	2		3			1	2	2	2	7 2.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	M	9
Thyroid Gland	+	+	+	+	+	+	+	+	+	M	9

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active				1	1	1	2	2	2	2	7 1.6
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia	2	2	2	2	2	2	2	2	2	3	10 2.1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	M	9
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.5 G/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	3	1	3	3	3	3	3	1
	1	3	0	2	0	0	0	0	0	3
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	1
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0
	<b>*TOTALS</b>									

Spleen	+	+	+	+	+	+	+	+	+	+	10	
Capsule, Fibrosis			1		1		1		1		4	1.0
Hematopoietic Cell Proliferation	3	3	2	3	2	2	2	2	2	3	10	2.4
Pigmentation	2	1	2	2	1	1	1	2	1		9	1.4
Thymus	+	+	+	+	+	+	+	+	+	+	10	
Hemorrhage			3		3					3	3	3.0
Necrosis	2	4		4						4	4	3.5
<b>Integumentary System</b>												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10	
Skin	+	+	+	+	+	+	+	+	+	+	10	
<b>Musculoskeletal System</b>												
Bone	+	+	+	+	+	+	+	+	+	+	10	
<b>Nervous System</b>												
Brain	+	+	+	+	+	+	+	+	+	M	9	
Peripheral Nerve	+										1	
Spinal Cord	+										1	
<b>Respiratory System</b>												
Lung	+	+	+	+	+	+	+	+	+	+	10	
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative								2		1	2	1.5
Trachea	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0.5 G/KG

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

Special Senses System

Eye + 1

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	1	1	1	1	1	1	1	1	1	1	10	1.0
Nephropathy										1	1	1.0
Renal Tubule, Pigmentation		1	1	1	1	1	1	1	1		8	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1.0 G/KG

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

\*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	M	+	+	+	9
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	M	+	+	+	+	+	+	9
Intestine Small, Jejunum	+	+	+	M	+	+	+	+	+	+	9
Liver	+	+	+	+	+	+	+	+	+	+	10
Centrilobular, Necrosis	3	3		3							3 3.0
Hematopoietic Cell Proliferation			1		2				1	1	4 1.3
Hepatodiaphragmatic Nodule								X			1
Kupffer Cell, Pigmentation			1		1				1	1	4 1.0
Mesentery			+								1
Accessory Spleen			X								1
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	M	M	+	+	+	8
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia								4	3	2	3 3.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Serosa, Inflammation	1										1 1.0

Cardiovascular System

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1.0 G/KG

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	1	1
	5	5	9	5	9	5	5	6	0	0
ANIMAL ID	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	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	<b>*TOTALS</b>									

Blood Vessel	+	+	+	+	+	+	M	+	+	+	9
Heart	+	+	+	+	+	+	+	+	+	+	10
Atrium, Thrombosis					2					2	2 2.0
Inflammation, Chronic Active	1	1	1		4			3	3	3	7 2.3

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	M	M	M	+	+	M	6
Pituitary Gland	+	+	+	+	+	+	M	+	+	+	9
Thyroid Gland	+	+	+	+	+	M	M	+	+	+	8

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1		1	1		3		1	5 1.4
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia	2	2	2	2	2	2	2	2	3	2	10 2.1

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1.0 G/KG

	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	1	1		
	5	5	9	5	9	5	5	6	0	0		
ANIMAL ID	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	1	1	1	1		
	0	0	0	0	0	0	0	0	0	1		
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>	
Hyperplasia	2	2	2	2	2	2	2	2	3	2	10	2.1
Lymph Node, Mandibular	+	+	+	+	+	M	M	+	+	+	8	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic Cell Proliferation	1		3		3				3	3	5	2.6
Lymph Follic, Depletion Cellular	2	2		1		1	1	2			6	1.5
Pigmentation					1				1	2	3	1.3
Thymus	+	+	+	+	+	+	+	+	+	+	10	
Atrophy					4			3			2	3.5
Hemorrhage	2	1		2							3	1.7
Necrosis	2	4	1	4		1	1		2	2	8	2.1

Integumentary System

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

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10	
------	---	---	---	---	---	---	---	---	---	---	----	--

Nervous System

Brain	+	+	+	+	+	+	M	+	+	+	9	
Peripheral Nerve									+	+	2	
Spinal Cord									+	+	2	

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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1.0 G/KG

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

\*TOTALS

Lung	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic Active	2	1									2	1.5	
Thrombosis, Focal										3	1	3.0	
Nose	+	+	+	+	+	+	M	+	+	+	9		
Foreign Body						X					1		
Inflammation, Suppurative		2			1					3	3	2.0	
Trachea	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic Active										1	1	1.0	
<b>Special Senses System</b>													
Eye			+								1		
Cataract			1								1	1.0	
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	10		
Mineralization	1	1	1	1	1	1	1	1	1	1	10	1.0	
Nephropathy									1	1	2	1.0	
Renal Tubule, Pigmentation					1						1	1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 91005-01

Test Type: 18-33 DAYS

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Methylene blue trihydrate

CAS Number: 7220-79-3

Date Report Requested: 10/15/2014

Time Report Requested: 17:59:52

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
2.0 G/KG

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10	
Necrosis	3				4	3	3	2	4	3	7	3.1
Serosa, Inflammation	2				2				2	2	4	2.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Centrilobular, Necrosis	1	3	3	3		2	1	1	2	3	9	2.1
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Necrosis										1	1	1.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	
Necrosis		4	2	4		4					4	3.5
Serosa, Inflammation		2		2		2					3	2.0

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10	
Heart	+	+	+	+	+	+	+	+	+	+	10	

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

\*TOTALS

Inflammation, Chronic Active	1	1	1								3	1.0
------------------------------	---	---	---	--	--	--	--	--	--	--	---	-----

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+		10	
Hemorrhage							1	2			2	1.5
Adrenal Medulla	+	+	+	+	+	+	+	+	+	M	9	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	9	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active			2	1		2	2	1			5	1.6
Ovary	+	+	+	+	+	+	+	+	+	+	10	
Uterus	+	+	+	+	+	+	+	+	+	+	10	

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	2	2	2	2	2	2	2	2	2	2	10	2.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	

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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			
	4	5	5	5	3	4	3	3	4	5			
ANIMAL ID	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	1	1	1	1			
	1	1	1	1	1	1	1	1	1	2			
	1	2	3	4	5	6	7	8	9	0			
											<b>*TOTALS</b>		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Lymph Follic, Depletion Cellular	2	3	2	2		2	2	1	3	3	9	2.2	
Thymus	+	+	+	+	+	+	+	+	+	+	10		
Hemorrhage	1	2							1	1	4	1.3	
Necrosis	2	4	4	4	3	4	2		2	4	9	3.2	
<b>Integumentary System</b>													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10		
Skin	+	+	+	+	+	+	+	+	+	+	10		
<b>Musculoskeletal System</b>													
Bone	+	+	+	+	+	+	+	+	+	+	10		
<b>Nervous System</b>													
Brain	+	+	+	+	+	+	+	+	+	+	10		
Peripheral Nerve					+						1		
Spinal Cord					+						1		
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	10		
Nose	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Suppurative					2		2	2	3		4	2.3	
Trachea	+	+	+	+	+	+	+	+	+	+	10		

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

Special Senses System

Eye	+										2	
Cataract	1										1	1.0

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	1	1	1	1	1	1	1	1	1	1	10	1.0
Nephropathy	1	1		1		1					4	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

\*\* END OF REPORT \*\*

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