

**TDMS No.** 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

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

**PYRIDINE**

**CAS Number:** 110-86-1

**Date Report Reqstd:** 05/17/2007

**Time Report Reqstd:** 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

**Lab:** TSI MASON

**C Number:** C55301B

**Lock Date:** 12/15/1994

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

**TDMSE Version:** 1.7.0



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Lab: TSI MASON

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

+ .. Tissue examined microscopically

x .. Lesion present

.. Essien present  
 .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

#### 1-4 .. Lesion qualified as

1) Minimal 3) Moderate

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

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## CARDIOVASCULAR SYSTEM

# **ENDOCRINE SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

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#### 1-4 Lesion qualified as

.. Eczema qualified as:

2) Mild      4) Marked

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Lab: TSI MASON

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

### Epididymis

## Penis

#### Inflammation, Chronic Active

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Lab: TSI MASON

## **HEMATOPOIETIC SYSTEM**

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

± .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M Missing tissue

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1-4: Lesion qualified as:

1) Minimal    3) Moderate  
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## SPECIAL SENSES SYSTEM

### Zymbal's Gland

十一

## **URINARY SYSTEM**

Kidney  
Cyst  
Developmental Malformation  
Hydronephrosis  
Nephropathy  
Artery, Inflammation, Acute  
Artery, Inflammation, Chronic Active  
Renal Tubule, Hyperplasia

Urinary Bladder  
Inflammation, Chronic

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| Insufficient tissue

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Lab: TSI MASON

## CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	2	2	1	2	2	2	3	2	2	2	1	3	1	3	2	1	1	2	1	2
Mineralization																			2	45
Thrombosis	3						2													1.7
																				1 2 2.0 2.5

## **ENDOCRINE SYSTEM**

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Lab: TSI MASON

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	<b>49</b>
Penis																							<b>1</b>
Inflammation, Chronic Active																							<b>1 3.0</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			<b>50</b>

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+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

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14. Lesion qualified as:

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## **HEMATOPOIETIC SYSTEM**

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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# **INTEGUMENTARY SYSTEM**

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## MUSCULOSKELETAL SYSTEM

## **NERVOUS SYSTEM**

Spinal Cord

## **RESPIRATORY SYSTEM**

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

† .. Total animals with tissue examined

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

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1-4 Lesion qualified as:

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## SPECIAL SENSES SYSTEM

## Zymbal's Gland

1

## **URINARY 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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## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

## Epididymis

## Preputial Gland

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

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x .. Lesion present

#### I .. Insufficient tissue

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Hyperplasia  
Duct. Dilatation

$$2 \quad 2 \quad 1 \quad 3 \quad 2 \quad 3 \quad 4^2 \quad 1 \quad 1 \quad 1 \quad 2 \quad 2$$

**males  
(cont...)**

Skin  
Hyperplasia, Squamous  
Inflammation, Acute

## MUSCULOSKELETAL SYSTEM

Bone  
Fibrous Osteodystrophy  
Hyperostosis

## Skeletal Muscle

## **NERVOUS SYSTEM**

Brain

## RESPIRATORY SYSTEM

Lung  
Congestion  
Hyperplasia, L  
Infiltration Cell  
Inflammation,  
Alveolar Epithe

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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Lab: TSI MASON

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	49
Preputial Gland	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	47

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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	0												
	7	5	7	6	7	6	7	7	7	7	6	7	6	6	6	7	7	4	6	6	7	5	4	6	2	3	2	0	2	0	0	0	2	2	5	2	2	8	2	4	2	4	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mediastinal, Hemorrhage																																										1 2.0	
Renal, Fibrosis																																									1 2.0		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50							
Congestion																																									1 2.0		
Ectasia																																									3 1.7		
Inflammation, Chronic Active																																									1 4.0		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	47									
Congestion																																									2 3.0		
Ectasia																																									3 2.7		
Hemorrhage																																									1 2.0		
Necrosis																																									3 2.7		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	48										
Congestion																																									1 3.0		
Fibrosis																																									11 2.1		
Hematopoietic Cell Proliferation																																									1 3.0		
Necrosis																																									2 2.5		
Thrombosis																																									1 2.0		
Thymus	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49									
Fibrosis																																									1 2.0		
Hemorrhage																																									1 3.0		

## INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	48					
Concretion																																				1 2.0

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Lab: TSI MASON

## MUSCULOSKELETAL SYSTEM

# **NERVOUS SYSTEM**

# **RESPIRATORY SYSTEM**

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x ... Lesion present

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## SPECIAL SENSES SYSTEM

Eye Atrophy + 4 1 1 4.0

Zymbal's Gland + 1

## **URINARY SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**BLANK** Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

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



TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

**CAS Number:** 110-86-1

Date Report Requested: 05/17/2007

Time Report Registered: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

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

+ .. Tissue examined microscopically

x .. Lesion present

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I .. Insufficient tissue

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2) Mild      4) Marked



TDMS No. 55301 - 05

**Test Type:** CHRONIC

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**Species/Strain:** RATS/F 344

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Date Report Requested: 05/17/2007

Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

**Lab:** TSI MASON

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 .. Lesion qualified as

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2) Mild      4) Marked

TDMS No. 55301 - 05

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Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **HEMATOPOIETIC SYSTEM**

Bone Marrow Depletion Cellular Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2
Lymph Node Mediastinal, Ectasia Mediastinal, Hemorrhage Mediastinal, Pigmentation Pancreatic, Congestion Pancreatic, Hyperplasia, Lymphoid		+			+	+		+		+						+	+	+	+	+	2

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

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1-4: Lesion qualified as:

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TDMS No. 55301 - 05

Test Type: CHRONIC

Route: DOSED WATER

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Date Report Reqsted: 05/17/2007

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First Dose M/F: 04/23/91 / 04/24/91

Lab: TSI MASON

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		
	7	7	7	5	7	7	7	5	6	7	7	7	5	7	5	6	2	7	7	6	7	7	5	7	7	6	7	7	5	7	7	
FISCHER 344 RATS MALE	2	2	2	8	2	2	2	9	4	2	2	2	8	0	2	6	0	2	6	0	2	3	2	2	2	6	0	2	3	2		
200 PPM	2	2	2	9	2	2	2	6	4	2	2	2	0	8	5	9	9	0	2	9	0	2	4	2	2	9	0	2	4	2		
Pancreatic, Necrosis																																
Pancreatic, Pigmentation																																
Renal, Congestion																																
Renal, Edema																																
Renal, Hyperplasia, Lymphoid																																
Renal, Pigmentation																																
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion																																
Ectasia																																
Hyperplasia, Lymphoid																																
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																																
Fibrosis	2																															
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																																
Fibrosis																																
Hyperplasia, Focal																																
Necrosis																																
Thymus	2	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

## INTEGUMENTARY SYSTEM

Mammary Gland  
Galactocele  
Hyperplasia

+

+

+

+

+

+

+

+

+

+

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+

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+

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+

+

+

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



TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

**CAS Number:** 110-86-1

**Date Report Requested:** 05/17/2007

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

# **SPECIAL SENSES SYSTEM**

## Zymbal's Gland

## **URINARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked



TDMS No. 55301 - 05

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| .. Insufficient tissue

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Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **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

.. Lesion present  
 Insufficient tissue

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Lab: TSI MASON

## **HEMATOPOIETIC SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

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**BLANK** Not examined microscopically

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Lab: TSI MASON

## **INTEGUMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

**BLANK** Not examined microscopically

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Lab: TSI MASON

Cyst 1 2.0

**1.1.** Inflammation, Chronic 1

Inflammation, Chronic Active 1 2 3 3 2 4 1 2 21 2.1

### Nasolacrimal Duct, Cyst

#### **SPECIAL SENSES SYSTEM**

Zymbal's Gland +

## **URINARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked



TDMS No. 55301 - 05

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**Species/Strain:** RATS/F 344

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+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present  
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

**BLANK** Not examined microscopically

#### 1-4 Lesion qualified as:

1-4: Lesion qualified as:

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



TDMS No. 55301 - 05

**Test Type:** CHRONIC

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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**First Dose M/F:** 04/23/91 / 04/24/91

**Lab:** TSI MASON

## **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

.. Lesion present  
 Insufficient tissue

M.. Missing tissue

A - Autolysis precludes evaluation

**BLANK** Not examined microscopically

1-4 .. Lesion qualified as:

1-4.2. Emission qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Time Report Registered: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

**Lab:** TSI MASON

## **HEMATOPOIETIC SYSTEM**

Bone Marrow Depletion Cellular Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2
<hr/>																						
Lymph Node Mediastinal, Congestion	+	+	+				+	+		+						+	+	+	+	+	+	+
Mediastinal, Hyperplasia, Lymphoid																4						

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

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#### 1-4 .. Lesion qualified as

1-4.2. Emission qualified as:

1) Minimal    3) Moderate  
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TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+
Hyperplasia																			2		1			
Duct, Dilatation	3	2	2																1	2				1

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Lab: TSI MASON

## **ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum Inflammation, Acute Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
																					1 2.0
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	49
																		X	+	+	2
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	49
																					1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Ileum Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	47
																					4 2.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	47
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																					1 2.0
Basophilic Focus																				X	1
Clear Cell Focus																					4
Degeneration, Cystic																					3 1.0
Developmental Malformation							X														1
Eosinophilic Focus							X	X	X	X								X	X	X	13

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

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| Insufficient tissue

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TDMS No. 55301 - 05

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Species/Strain: RATS/F 344

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PYRIDINE

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Time Report Reqsted: 15:13:45

First Dose M/F: 04/23/91 / 04/24/91

Lab: TSI MASON

FISCHER 344 RATS MALE 400 PPM	ANIMAL ID	DAY ON TEST																								* 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		
		7	4	7	7	6	7	7	6	7	7	6	6	7	6	6	5	7	7	5	7	7	5	4	7		
		1	2	2	2	7	1	2	4	2	2	2	2	7	2	9	0	8	2	1	9	2	2	2	6	2	
		9	8	2	2	0	9	2	7	2	2	2	7	6	2	1	1	4	2	2	7	8	2	2	0	5	2
Fibrosis																											10 1.6
Mitotic Alteration																											2 2.5
Mixed Cell Focus																											1
Necrosis																											2 1.5
Pigmentation																											25 2.0
Vacuolization Cytoplasmic																											17 2.4
Bile Duct, Hyperplasia	1	1	2	3	2	2	1	2	3	1	2	1	2	1	2	1	2	1	1	2	1	1	1	2	2	2	49 1.6
Centrilobular, Cytomegaly																											6 2.0
Centrilobular, Degeneration																											8 2.1
Centrilobular, Necrosis																											5 2.2
Periportal, Fibrosis	2	2	2	1	1	2																				29 1.8	
Mesentery																											8
Fat, Necrosis																											8 1.8
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Atrophy																											12 1.2
Hyperplasia	3	3																									3 2.3
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cellular Alteration																											1 1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperkeratosis																											2 2.0
Inflammation, Acute																											1 4.0
Inflammation, Chronic Active																											8 2.8
Ulcer																											4 2.5
Epithelium, Hyperplasia, Squamous	3																										11 3.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## CARDIOVASCULAR SYSTEM

## **ENDOCRINE SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present  
 Insufficient tissue

M.. Missing tissue

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **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

.. Lesion present  
 Insufficient tissue

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Lab: TSI MASON

## **HEMATOPOIETIC SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

**BLANK** Not examined microscopically

#### 1-4 Lesion qualified as

1-4: Lesion qualified as:

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

## **INTEGUMENTARY SYSTEM**

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

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MUSCULOSKELETAL SYSTEM

## **NERVOUS SYSTEM**

## RESPIRATORY SYSTEM

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**BLANK** Not examined microscopically

1-4 .. Lesion qualified as:

+ .. Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

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Lab: TSI MASON

## **SPECIAL SENSES SYSTEM**

Ear + + 2  
Zymbol's Gland 1

## **URINARY SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**BLANK** Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

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

**TDMS No. 55301 - 05**

**Test Type: CHRONIC**

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

CAS Number: 110-86-1

**Date Report Registered:** 05/17/2007

Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

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

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## ALIMENTARY SYSTEM

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First Dose M/F: 04/23/91 / 04/24/91

Lab: TSI MASON

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				
	7	7	7	6	6	6	7	3	7	6	7	7	5	7	7	7	4	7	7	7	7	7	7	6	6	6				
FISCHER 344 RATS FEMALE	2	2	2	7	2	4	2	9	2	8	2	2	9	2	2	2	9	2	2	2	2	2	2	3	8					
ANIMAL ID	9	9	2	3	2	9	9	9	7	9	9	9	6	9	9	9	3	9	9	9	9	9	9	6	1					
0 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	0	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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4					
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0					
Hepatodiaphragmatic Nodule							X	X												X	X				X					
Inflammation, Chronic Active	1			1	2		1	1											3											
Mitotic Alteration																				1										
Mixed Cell Focus																				X										
Necrosis	2						1		1											1										
Pigmentation							2													1	3									
Tension Lipidosis							X		X																		X			
Vacuolization Cytoplasmic							4																							
Bile Duct, Hyperplasia								1	1	1		2	1		1	2				1					1	1	1			
Centrilobular, Degeneration																														
Centrilobular, Necrosis																														
Mesentery							+					+																		
Fat, Necrosis							2					2																		
Oral Mucosa							+					+																		
Pancreas							+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+				
Atrophy	2	1					2		1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Cytoplasmic Alteration																														
Salivary Glands							+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Stomach, Forestomach							+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hyperkeratosis																														
Inflammation, Acute																														
Inflammation, Chronic Active																														
Ulcer																														
Epithelium, Hyperplasia, Squamous																														

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TDMS No. 55301 - 05

**Test Type:** CHRONIC

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## CARDIOVASCULAR SYSTEM

## **ENDOCRINE SYSTEM**

Islets, Pancreatic + A +

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## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	6	7	7	5	7	7	7	7	7	7	7	7	5	6	6	6	6	7	7	7	7	7	7	
	3	3	3	3	3	9	3	3	1	8	2	2	2	2	1	3	3	3	0	6	6	6	7	3	3	3	3	3	
	0	0	0	0	0	6	0	0	7	8	9	9	9	9	7	0	0	0	3	1	7	1	0	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b> ANIMAL ID <b>0 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	* <b>TOTALS</b>			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Erosion						1		4																				<b>6</b>	<b>2.8</b>
Inflammation, Chronic Active																												<b>3</b>	<b>1.30</b>
Ulcer																												<b>3</b>	<b>1.30</b>

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>			
Cardiomyopathy	1	1	1	1	1	2	1	1	1	1	1	1	2	2	2	2	1	2	1	1	1	1	1	1	1	<b>42</b>	<b>1.2</b>	
Inflammation, Chronic Active																											<b>1</b>	<b>1.0</b>
Mineralization																											<b>3</b>	<b>1.30</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>			
Accessory Adrenal Cortical Nodule																											<b>1</b>	<b>2.0</b>
Hematopoietic Cell Proliferation																											<b>1</b>	<b>1.0</b>
Hemorrhage																											<b>2</b>	<b>1.20</b>
Hyperplasia	1	2	1																								<b>2</b>	<b>11.13</b>
Vacuolization Cytoplasmic																											<b>6</b>	<b>1.8</b>

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>			
Hyperplasia						2																					<b>5</b>	<b>1.6</b>

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>	
--------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------	--

Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>			
Hyperplasia																											<b>1</b>	<b>2.0</b>

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TDMS No. 55301 - 05

**Test Type:** CHRONIC

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**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Lab: TSI MASON

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49			
Pars Distalis, Angiectasis		3	3	3														2		11	2.7		
Pars Distalis, Cyst	1			2	3	2												1	2	16	2.0		
Pars Distalis, Hemorrhage						2												1	2	1	2.0		
Pars Distalis, Hyperplasia	2	3								4	4	4	4				1	1	4	2	22	2.5	
Pars Intermedia, Hyperplasia													2							1	2	1	2.0

## **GENERAL BODY SYSTEM**

NONE

GENITAL SYSTEM

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Uterus  
Hyperplasia, Cystic  
Necrosis

## **HEMATOPOIETIC SYSTEM**

Bone Marrow  
Depletion Cellular  
Fibrosis  
Hyperplasia

Lymph Node  
Iliac, Congestion  
Mediastinal, Congestion  
Mediastinal, Pigmentation  
Renal, Congestion

+	+	+	7
2	2	2	2.0
3	3	2	2.0
3	1	3.0	1.0

Lymph Node, Mandibular  
Atrophy  
Ectasia  
Hyperplasia, Lymphoid  
Hyperplasia, Plasma Cell

Lymph Node, Mesenteric  
Congestion  
Hemorrhage

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Lab: TSI MASON

## **INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Galactocele									2										3	2.7	
Hyperplasia			1	2															5	2.2	
Duct, Dilatation					4			4		1		1			3					13	2.2
<hr/>																					
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Squamous										2					4					2	3.0
Inflammation, Acute																			1	2.0	
Inflammation, Chronic																			1	3.0	
Inflammation, Chronic Active													3		2					2	2.5

## MUSCULOSKELETAL SYSTEM

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| Insufficient tissue

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## **NERVOUS SYSTEM**

## RESPIRATORY SYSTEM

## **SPECIAL SENSES SYSTEM**

Harderian Gland  
Inflammation, Chronic 1 1.0

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## CARDIOVASCULAR SYSTEM

## **ENDOCRINE SYSTEM**

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## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

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## **INTEGUMENTARY SYSTEM**

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## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

Pleura +

## SPECIAL SENSES SYSTEM

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**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

**CAS Number:** 110-86-1

Date Report Requested: 05/17/2007

Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

**Lab:** TSI MASON

## Zymbal's Gland

+

## **URINARY SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

**BLANK** Not examined microscopically

#### 1-4 Lesion qualified as:

.. Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

**CAS Number:** 110-86-1

Date Report Requested: 05/17/2007

Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **ALIMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M.. Missing tissue

A - Autolysis precludes evaluation

**BLANK** Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

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

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

+ .. Tissue examined microscopically

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. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## CARDIOVASCULAR SYSTEM

# **ENDOCRINE SYSTEM**

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

† .. Tissue examined microscopically

x ... Lesion present

X .. Essien present  
I .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

#### 1-4 Lesion qualified as

+ .. Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **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

x .. Lesion present  
| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

#### 1-4 Lesion qualified as:

+ .. Lesion qualified as:

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

TDMS No. 55301 - 05

Test Type: CHRONIC

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PYRIDINE

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First Dose M/F: 04/23/91 / 04/24/91

Lab: TSI MASON

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
	7	7	7	7	7	7	7	7	6	5	6	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	6	7	7	6
	2	2	2	2	3	2	2	2	6	7	8	2	3	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	6
	9	9	9	9	0	9	9	9	6	0	2	9	0	9	9	9	9	9	9	9	9	9	8	2	9	9	9	6	6	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 PPM</b>	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	* <b>TOTALS</b>				

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis																												1	3.0
Cyst																												1	4.0
Dilatation																												1	4.0
Hemorrhage																												1	3.0
Inflammation, Chronic																												1	3.0
Inflammation, Chronic Active																												1	3.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Fibrosis																												1	1.0
Hyperplasia																												1	4.5
Hyperplasia, Reticulum Cell																												1	3.0
Myeloid Cell, Hyperplasia																												1	4.0

Lymph Node																												9	
Mediastinal, Congestion																												1	1.0
Pancreatic, Pigmentation																												1	2.0
Renal, Congestion																												1	1.0
Renal, Ectasia																												1	2.0

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Congestion																												1	1.0
Ectasia																												4	1.8
Hyperplasia, Lymphoid																												1	2.0
Infiltration Cellular, Plasma Cell																												1	3.0

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 55301 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

CAS Number: 110-86-1

Date Report Reqsted: 05/17/2007

Time Report Reqsted: 15:13:45

First Dose M/F: 04/23/91 / 04/24/91

Lab: TSI MASON

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		
	7	7	7	7	7	7	7	7	6	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	6	7	6	
FISCHER 344 RATS FEMALE ANIMAL ID 100 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	* TOTALS					
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2 2.5			
Hyperplasia, Lymphoid																															
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	3 2.0			
Fibrosis																															
Hematopoietic Cell Proliferation																													1	4 1.8	
Hemorrhage																													2	2 2.0	
Metaplasia, Osseous																														1	2.0
Necrosis																														1	1.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0			
Ectopic Parathyroid Gland																															
Fibrosis																															

## INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	5 2.4				
Galactocele																													2	2 1.5	
Hyperplasia																													1	9 1.4	
Duct, Dilatation																															
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0				
Hyperplasia, Squamous																													2	1 2.0	
Inflammation, Chronic Active																													1	1 2.0	
Subcutaneous Tissue, Fibrosis																															

## MUSCULOSKELETAL SYSTEM

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

**CAS Number:** 110-86-1

**Date Report Requested:** 05/17/2007

Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

## **SPECIAL SENSES SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

#### 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. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: TSI MASON

### Zymbal's Gland

1

## **URINARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild      4) Marked



## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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**Date Report Registered:** 05/17/2007

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**First Dose M/F:** 04/23/91 / 04/24/91

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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





TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

**CAS Number:** 110-86-1

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Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **HEMATOPOIETIC SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **INTEGUMENTARY SYSTEM**

## MUSCULOSKELETAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

#### A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

## SPECIAL SENSES SYSTEM

**Eye Hemorrhage** + 2

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

#### **M: Missing teeth**

BLANK .. Not examined microscopically

1-4 .. Lesion qualified a

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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**First Dose M/F:** 04/23/91 / 04/24/91

**Lab:** TSI MASON

## **URINARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

#### A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked



**Species/Strain:** RATS/F 344

\* .. 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. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Lab: TSI MASON

## CARDIOVASCULAR SYSTEM

## **ENDOCRINE SYSTEM**

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

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present  
I .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

#### 1-4 Lesion qualified as:

1-4: Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

+ .. Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **HEMATOPOIETIC SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

#### A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: TSI MASON

# **INTEGUMENTARY SYSTEM**

## MUSCULOSKELETAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

#### A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 55301 - 05

**Test Type:** CHRONIC

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: TSI MASON

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Congestion																			3	1 3.0
Inflammation, Chronic																			3	1.0
Inflammation, Chronic Active		2			2	1	3										4	1	3	16 1.8
Nasolacrimal Duct, Inflammation, Chronic Active																		2	1	1 2.0

## SPECIAL SENSES SYSTEM

Eye Hemorrhage 1 1.2.0

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

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

#### 1-4 Lesion qualified as:

1-4: Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

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**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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## **URINARY SYSTEM**

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

† .. Tissue examined microscopically

x .. Lesion present

| Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

#### 1-4 Lesion qualified as

4 .. Lesion qualified as:

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



TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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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. 55301 - 05

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Lab: TSI MASON

Inflammation, Acute  
Inflammation, Chronic Active

## MUSCULOSKELETAL SYSTEM

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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. 55301 - 05

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**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **SPECIAL SENSES SYSTEM**

**Eye  
Hemorrhage**

+ +  
2 3

## Zymbal's Gland

## **URINARY SYSTEM**

Kidney  
  Accumulation, Hyaline Droplet  
  Inflammation, Acute  
  Mineralization  
  Nephropathy  
  Pigmentation  
  Renal Tubule, Hyperplasia

Urinary Bladder  
Inflammation, Chronic

**females  
(cont...)**

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

† .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

**BLANK** Not examined microscopically

#### 1-4 Lesion qualified as:

.. Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

**CAS Number:** 110-86-1

**Date Report Requested:** 05/17/2007

Time Report Requested: 15:13:45

**First Dose M/F:** 04/23/91 / 04/24/91

Lab: TSI MASON

## **ALIMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 55301 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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Lab: TSI MASON

FISCHER 344 RATS FEMALE 400 PPM	ANIMAL ID	DAY ON TEST																				* TOTALS	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		6	7	6	3	7	6	6	6	7	6	6	5	6	7	7	7	6	7	7	5	6	
		7	2	3	8	2	0	4	2	2	2	0	8	3	8	9	2	2	4	2	2	8	3
		2	9	9	0	9	3	9	5	8	9	5	7	4	3	2	9	9	1	9	9	4	6
Inflammation, Chronic Active																							4 1.0
Mitotic Alteration																							1 2.0
Mixed Cell Focus																							5
Pigmentation		2																					17 1.6
Vacuolization Cytoplasmic																							18 1.6
Bile Duct, Hyperplasia		1	1																				29 1.0
Capsule, Inflammation, Chronic																							2 2.0
Centrilobular, Cytomegaly		2																					20 1.4
Centrilobular, Degeneration		1																					7 1.1
Mesentery																							12
Inflammation																							1 3.0
Fat, Necrosis																							11 1.9
Oral Mucosa																							2
Pharyngeal, Hyperplasia																							1 3.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy		1		1																			14 1.1
Ectopic Liver					X																		3
Inflammation, Chronic																							2 2.5
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																							1 1.0
Cytoplasmic Alteration																							1 1.0
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic																							1 4.0
Inflammation, Chronic Active																							1 3.0
Ulcer																							4 2.5

\* .. 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

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TDMS No. 55301 - 05

**Test Type:** CHRONIC

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: TSI MASON

## CARDIOVASCULAR SYSTEM

## **ENDOCRINE SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present  
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

#### 1-4 Lesion qualified as:

+ .. Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Lab: TSI MASON

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Lab: TSI MASON

## **HEMATOPOIETIC SYSTEM**

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

± .. Tissue examined microscopically

Lesion present

x .. Lesion present  
| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 Lesion qualified as:

1-4 .. Lesion qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PYRIDINE

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Lab: TSI MASON

# **INTEGUMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**BLANK** Not examined microscopically

1-4 .. Lesion qualified as

1-4.2. Emission qualified as:

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

TDMS No. 55301 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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## MUSCULOSKELETAL SYSTEM

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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. 55301 - 05

**Test Type:** CHRONIC

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## SPECIAL SENSES SYSTEM

Eye  
Hemorrhage 2 2 2.5

Zymbal's Gland + 1

# **URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accumulation, Hyaline Droplet																	3			1	3.0
Inflammation, Acute																			1	3.0	
Mineralization																			6	1.0	
Nephropathy	1	2	2		3	1	1	1	1	2		2	1	2	1	2	1	1	1	1	37 1.3
Pigmentation																			1	1.0	
Renal Tubule, Hyperplasia																			1	2.0	
<hr/>																					
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic																			1	2	2 1.5

\*\*\* END OF REPORT \*\*\*

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 .. Lesion qualified as

.. Eczema qualified as:

2) Mild      4) Marked