

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.
Final 1 Rats

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

C Number: C88123B
Lock Date: 11/20/2003
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL

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		7	6	6	6	7	7	6	7	7	6	7	5	7	7	7	7	3	4	7	7	7	7	7	7
DAY ON TEST		2	8	5	8	2	2	8	2	2	8	0	6	2	2	2	2	9	5	2	2	2	2	2	2
		7	0	4	2	7	1	1	8	8	7	8	1	8	1	8	7	7	4	7	1	8	7	7	7
FISCHER 344 RATS MALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	1	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
		males (cont...)																							

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																								
Intestine Large, Cecum	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																								
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan															X	X								
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								1
Basophilic Focus	1				1	1		1	1	1			1		1	1	1	1	1		1	1		1
Clear Cell Focus	X				X			X	X				X		X	X	X				X	X		X
Degeneration, Cystic					2																			
Eosinophilic Focus			X	X													X							X
Fatty Change, Focal	1	1			1										1	1			2			1		
Fatty Change, Diffuse						1						1						2	2	1				2
Hematopoietic Cell Proliferation		1																1	1					

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DAY ON TEST		2	8	5	8	2	2	8	2	2	8	0	6	2	2	2	2	9	5	2	2	2	2	2	2	
		7	0	4	2	7	1	1	8	8	7	8	1	8	1	8	7	7	4	7	1	8	7	7	7	
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 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	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	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	
		males (cont...)																								
Hepatodiaphragmatic Nodule																										
Inflammation		1	1			1				1	1			1		1	1	1	1	X		2	1		1	1
Mixed Cell Focus		X																			X					X
Necrosis																										
Regeneration		3																								
Thrombosis																										
Vacuolization Cytoplasmic, Diffuse																										
Bile Duct, Cyst		2																								
Bile Duct, Hyperplasia		2	2	3	3	2	2	3	2	3	3	2	3		2	2	2	1	1	2	2	2	3	1	2	
Centrilobular, Degeneration				3	2		2	2				2	2							2			2			
Oval Cell, Hyperplasia				2	2		2	2	1	1		1	1				1				1	1	1			
Serosa, Cyst		2																								
Serosa, Fibrosis																										
Mesentery		+																								
Fat, Necrosis		3																								
Oral Mucosa		+																								
Gingival, Hyperplasia, Squamous		1	1	1	1		2	1	1	1			2		1	1						1			1	
Pancreas		+																								
Atrophy		+																								
Cyst		3																								
Infiltration Cellular, Mononuclear Cell																										
Inflammation, Chronic Active		2	2		1	2			2		1	2		2		2				1					1	
Acinus, Atrophy		2	2		1	2			3		1	2				2				2					1	
Acinus, Hyperplasia		2																								
Acinus, Hyperplasia, Focal		3																								
Salivary Glands		+																								

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		2	8	5	8	2	2	8	2	2	8	0	6	2	2	2	2	2	9	5	2	2	2	2	2
		7	0	4	2	7	1	1	8	8	7	8	1	8	1	8	7	7	4	7	1	8	7	7	7
.....																									
FISCHER 344 RATS MALE 0 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	1	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
ANIMAL ID		males (cont...)																							

Stomach, Forestomach Inflammation Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular Edema Hyperplasia Mineralization	+	+	+	+	+	+	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth Malformation Peridontal Tissue, Inflammation	+	+	+		+	+	+	+	+					+	+					+	+	+		+	
	1	1	1		1	2	1	1	1					1	1					1	2				1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart Cardiomyopathy Thrombosis Atrium, Thrombosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2	2	2	3	2	2		2	2	3	1	2	2	1	2	2	2	2	2	1	3	2		2	2
							2							3											

ENDOCRINE SYSTEM

Adrenal Cortex Angiectasis Degeneration, Cystic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		1													1						1				
								2																	

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DAY ON TEST		2	8	5	8	2	2	8	2	2	8	0	6	2	2	2	2	9	5	2	2	2	2	2	2
		7	0	4	2	7	1	1	8	8	7	8	1	8	1	8	7	7	4	7	1	8	7	7	7
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
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 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
		males (cont...)																							
Hematopoietic Cell Proliferation		1																							
Hyperplasia		2																							
Hypertrophy																									
Vacuolization Cytoplasmic		2																							
Adrenal Medulla		+																							
Hyperplasia		4																							
Infiltration Cellular, Mononuclear Cell		3																							
Islets, Pancreatic		+																							
Hyperplasia		+																							
Parathyroid Gland		+																							
Pituitary Gland		+																							
Angiectasis		1																							
Cyst		2																							
Pars Distalis, Hyperplasia		3																							
Thyroid Gland		+																							
Inflammation		3																							
C-cell, Hyperplasia		1																							

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

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	DAY ON TEST	7	6	6	6	7	7	6	7	7	6	7	5	7	7	7	7	3	4	7	7	7	7	7	7
		2	8	5	8	2	2	8	2	2	8	0	6	2	2	2	2	9	5	2	2	2	2	2	2
		7	0	4	2	7	1	1	8	8	7	8	1	8	1	8	7	7	4	7	1	8	7	7	7
FISCHER 344 RATS MALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

males
(cont...)

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell									X															
Inflammation																			2					
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	2	2	2	2	2	2	2	1	2	3	2	2	2	3	2	2	2	2	2	2	2	2	2	2
Duct, Ectasia							2	3		2										2				
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																	3							
Inflammation	2		2	1	2	2		2		1		2	2		1		2			1	1	2	1	1
Epithelium, Hyperplasia										2														1
Epithelium, Vacuolization Cytoplasmic																								
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation																								
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Germinal Epithelium, Atrophy							3																	
Germinal Epithelium, Degeneration																			2					
Interstitial Cell, Hyperplasia																		3	2					

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																							2	
Hyperplasia		3	3	3		3	3			2	3	4		3	2				3	2	3			
Lymph Node			+				+					+		+								+		

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		2	8	5	8	2	2	8	2	2	8	0	6	2	2	2	2	2	9	5	2	2	2	2	2
		7	0	4	2	7	1	1	8	8	7	8	1	8	1	8	7	7	4	7	1	8	7	7	7
.....																									
FISCHER 344 RATS MALE 0 MG/KG		ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	1	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
			males (cont...)																						

Bone +

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage	3																						
Peripheral Nerve	+																						
Spinal Cord	+																						

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	1																						
Alveolar Epithelium, Hyperplasia	2							2									2			1			
Alveolus, Infiltration Cellular, Histiocyte			1			1			1			1	1	1			1			1	1	1	1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lateral Wall, Inflammation	1																						
Nasolacrimal Duct, Inflammation	2																						
Nasopharyngeal Duct, Inflammation	2																						
Olfactory Epithelium, Metaplasia																							
Respiratory Epithelium, Hyperplasia			1			1			1	1	1	1			1	1	1						
Septum, Inflammation	1	1							1	1	1	1			1			1			1	1	2
Turbinate, Inflammation	1	1			1			2	1					1					1			1	2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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		7	0	4	2	7	1	1	8	8	7	8	1	8	1	8	7	7	4	7	1	8	7	7	7	7
.....																										
FISCHER 344 RATS MALE 0 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	1	2	2	2	2	2	2
		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
ANIMAL ID																										males (cont...)

Inflammation 2

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lens, Degeneration																									
Retina, Atrophy																									
Retina, Degeneration																									
Retina, Necrosis																									
Sclera, Mineralization																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Lymphoid																									
Infiltration Cellular, Mononuclear Cell																									
Inflammation	1	1																							

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet																									
Cyst																									
Mineralization																									
Nephropathy	2	1	1	1	2	2	1	2	2	1	1	3	1	2	2	3	1	1	2	3	2	1	3	2	
Pigmentation																									
Renal Tubule, Degeneration																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. 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

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1) Minimal 3) Moderate

2) Mild 4) Marked

Page 9

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
 Time Report Reqsted: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

DAY ON TEST		7	7	5	5	4	7	7	5	7	7	6	5	7	7	4	6	7	6	5	7	7	7	7	7	7	
		2	2	0	9	7	2	0	7	2	2	2	8	2	2	2	2	6	0	5	8	2	2	2	2	2	2
		7	7	6	1	7	7	7	7	7	7	2	2	8	7	3	6	0	7	9	7	7	8	7	7	7	7
FISCHER 344 RATS MALE 0 MG/KG																											
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
		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	* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation		2																									1 2.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parasite Metazoan										X																	1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parasite Metazoan				X						X				X				X			X		X				8
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis	1				1																						3 1.0
Basophilic Focus	1	1				1				1	1	1	1	1	1		1		1	1				1	1		32 1.0
Clear Cell Focus					X					X	X			X					X	X	X	X	X	X	X		21
Degeneration, Cystic					2		2							2													7 1.7
Eosinophilic Focus	X	X	X								X	X	X								X	X	X	X			14
Fatty Change, Focal										1								2									9 1.2
Fatty Change, Diffuse					1						2				1	1	2				1	1	1				14 1.4
Hematopoietic Cell Proliferation				1											1	1	2				1	1	1				4 1.0

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		DAY ON TEST		7	7	5	5	4	7	7	5	7	7	6	5	7	7	4	6	7	6	5	7	7	7	7	7	7		
		2	2	0	9	7	2	0	7	2	2	2	2	2	8	2	2	2	6	0	5	8	2	2	2	2	2	2		
		7	7	6	1	7	7	7	7	7	7	7	7	2	2	8	7	3	6	0	7	9	7	7	8	7	7	7		
FISCHER 344 RATS MALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5		
		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			* TOTALS	
Hepatodiaphragmatic Nodule						3								2				X										4	2.5	
Inflammation		1	1	2	1	2	2			1	1	1	2	1	2	1	1	2	1	1	2	2	1	2	1	1		38	1.3	
Mixed Cell Focus		X									X																	5		
Necrosis				1	1																							2	1.0	
Regeneration																												1	3.0	
Thrombosis				2																								1	2.0	
Vacuolization Cytoplasmic, Diffuse														1														1	1.0	
Bile Duct, Cyst																												1	2.0	
Bile Duct, Hyperplasia		2	2	2	3	2	3	3	3	2	3	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	49	2.2	
Centrilobular, Degeneration				2				2																				10	2.1	
Oval Cell, Hyperplasia				1	1			2	2	1		1			1		1	1	1			1					23	1.3		
Serosa, Cyst																												1	2.0	
Serosa, Fibrosis				1																							1	1.0		
Mesentery				+					+							+			+			+					10			
Fat, Necrosis										3							3			3			3					9	3.0	
Oral Mucosa				+					+	+	+	+			+			+	+			+					22			
Gingival, Hyperplasia, Squamous				1					1	1	1	1			1			1			1							21	1.1	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																		2										1	3.0	
Cyst																		2										1	2.0	
Infiltration Cellular, Mononuclear Cell														X								X		X				4		
Inflammation, Chronic Active		1	1			2	2			2			2					1			2			2	2		1	1	23	1.6
Acinus, Atrophy		2	1			2	3			3			2							2			3	2		1	1	21	1.9	
Acinus, Hyperplasia																												2	2.0	
Acinus, Hyperplasia, Focal																												1	3.0	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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M .. Missing tissue

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2) Mild 4) Marked

Date Report Requested: 12/05/2005
Time Report Requested: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

2) Mild 4) Marked

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	7	5	5	4	7	7	5	7	7	6	5	7	7	4	6	7	6	5	7	7	7	7	7	7
		2	2	0	9	7	2	0	7	2	2	2	8	2	2	2	6	0	5	8	2	2	2	2	2	2
		7	7	6	1	7	7	7	7	7	7	2	2	8	7	3	6	0	7	9	7	7	8	7	7	7
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
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 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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
		* TOTALS																								
Hematopoietic Cell Proliferation																										1 1.0
Hyperplasia		1						1			1								1					1		12 1.6
Hypertrophy			2		1																		1	1		7 1.4
Vacuolization Cytoplasmic				1	1	1		1		1						1	1		2	2			1	1	1	31 1.4
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia							2					2		2								2				12 2.2
Infiltration Cellular, Mononuclear Cell			X														X									2
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia							3			2												2	1			4 2.0
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	48
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis										1	2			3	3			3							2	13 2.2
Cyst						2						2							3							3 2.3
Pars Distalis, Hyperplasia		1		1	1		1	1	2	3		2					2		2			2	2		3	24 1.8
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation				1																						1 1.0
C-cell, Hyperplasia			1				1	1	1	1	3				2		1			1				1		22 1.7

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
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I .. Insufficient tissue
M .. Missing tissue
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked
Page 13

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST	7	7	5	5	4	7	7	5	7	7	6	5	7	7	4	6	7	6	5	7	7	7	7	7	7	
		2	2	0	9	7	2	0	7	2	2	2	8	2	2	2	6	0	5	8	2	2	2	2	2	2	
		7	7	6	1	7	7	7	7	7	7	2	2	8	7	3	6	0	7	9	7	7	8	7	7	7	
FISCHER 344 RATS MALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	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	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
		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	* TOTALS

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1
Infiltration Cellular, Mononuclear Cell																												1
Inflammation																												2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	50
Inflammation	2	3	2	2	1	3	3	2	2	3	2	2	2	3	1	2	2	2	2	2	3	2	3	2	3		7	2.1
Duct, Ectasia					2		2								2													2.1
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1
Cyst																												3.0
Inflammation	1	2	2	2		2		2	1			1	2			2			1					2			28	1.6
Epithelium, Hyperplasia						2					2											1			2		6	1.7
Epithelium, Vacuolization Cytoplasmic																		2									1	2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1
Dilatation											2																	2.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2
Germinal Epithelium, Atrophy			4																									3.5
Germinal Epithelium, Degeneration																												2.0
Interstitial Cell, Hyperplasia				3				3																				4
																												2.8

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy											2					2												4	2.0
Hyperplasia		2	3					4				3	2				3											19	2.8
Lymph Node		+						+																				7	

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TDMS No. 88123 - 05
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Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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		2	2	0	9	7	2	0	7	2	2	2	8	2	2	2	6	0	5	8	2	2	2	2	2	2
		7	7	6	1	7	7	7	7	7	7	2	2	8	7	3	6	0	7	9	7	7	8	7	7	7
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS MALE	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	0	0	0	0	0	0	0	0
0 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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
		* TOTALS																								

Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
	2																								2	7 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hematopoietic Cell Proliferation	1	1	2		1			1	1	1	1	1		1	2	1	1	1	1	1	1	1	1	1	1	41 1.1
Pigmentation	1	1				1			1	1		1	1	1		1	2		1	1	1	1	1	1	1	29 1.1
Thymus	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Atrophy	4	2	2	3	3	2	4		2	3	3	3	3	3	2	3	3	3	3	2	3	3	3	3	4	46 3.2

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst																	2									2 2.0
Hyperplasia																										3 1.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Edema																	3									1 3.0
Hemorrhage																	2									1 2.0
Inflammation																	2									3 2.7
Ulcer																										1 2.0

MUSCULOSKELETAL SYSTEM

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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		2	2	0	9	7	2	0	7	2	2	2	8	2	2	2	6	0	5	8	2	2	2	2	2
		7	7	6	1	7	7	7	7	7	7	2	2	8	7	3	6	0	7	9	7	7	8	7	7
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS MALE	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	0	0	0	0	0	0
0 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
		* TOTALS																							

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemorrhage	3																									2 3.0
Peripheral Nerve	1																									
Spinal Cord	1																									

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										1 1.0
Alveolar Epithelium, Hyperplasia	2			2		1		1									2	1								10 1.6
Alveolus, Infiltration Cellular, Histiocyte			1			1	1		1	1				1	1		1	1	1			1		1	1	27 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lateral Wall, Inflammation				1							2									1						6 1.2
Nasolacrimal Duct, Inflammation														3												2 2.5
Nasopharyngeal Duct, Inflammation																										1 2.0
Olfactory Epithelium, Metaplasia																										1 2.0
Respiratory Epithelium, Hyperplasia								1			1	1		1					1	1	1	1		1		19 1.1
Septum, Inflammation		1		1							3									1		1				15 1.2
Turbinate, Inflammation		1		1																						11 1.2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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+ .. Tissue examined microscopically

x .. Lesion present

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1) Minimal 3) Moderate

2) Mild 4) Marked

Page 16

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

	DAY ON TEST	7	7	5	5	4	7	7	5	7	7	6	5	7	7	4	6	7	6	5	7	7	7	7	7	7
		2	2	0	9	7	2	0	7	2	2	2	8	2	2	2	6	0	5	8	2	2	2	2	2	2
		7	7	6	1	7	7	7	7	7	7	2	2	8	7	3	6	0	7	9	7	7	8	7	7	7
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS MALE	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	0	0	0	0	0	0	0	0
0 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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
		* TOTALS																								

Inflammation	1	2	3	1.7
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SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lens, Degeneration																											1 3.0
Retina, Atrophy																											2 3.0
Retina, Degeneration																											2 2.5
Retina, Necrosis																											1 1.0
Sclera, Mineralization		1	1		2	2			2	2	2	2	2	3			2		1	2	2	2	2	2			27 1.9
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Lymphoid																	2										1 2.0
Infiltration Cellular, Mononuclear Cell		X																									3
Inflammation			1	1								1				2			1		1						9 1.1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accumulation, Hyaline Droplet																											2 3.0
Cyst																											1 3.0
Mineralization				1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1	1		37 1.0
Nephropathy	2	2	1	1	1	2	1	1	2	2	1	1	2	3	1	2	1	2	1	2	2	1	2	2	2		49 1.7
Pigmentation				2							1																8 1.6
Renal Tubule, Degeneration																											1 3.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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TDMS No. 88123 - 05
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 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
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 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

DAY ON TEST		7	6	7	7	5	7	7	6	6	6	6	7	7	6	6	7	7	5	7	6	4	6	7	7	7	
		0	0	2	2	6	2	2	5	1	7	5	2	2	9	5	2	2	9	2	2	8	7	2	2	2	
		2	2	8	8	6	8	7	8	0	9	0	8	7	5	4	8	8	4	8	4	5	0	8	7	8	
FISCHER 344 RATS MALE 20 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	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	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		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	males (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Basophilic Focus	1	1		1	1	1	1		1						1		1	1		1		1	1		
Clear Cell Focus			X	X		X	X										X					X		X	
Degeneration, Cystic						2																1			
Eosinophilic Focus		X			X								X			2	X	X		X				X	X
Fatty Change, Focal								1					2										1	1	
Fatty Change, Diffuse		1							1		2		1									1			
Hematopoietic Cell Proliferation								1	1																
Hepatodiaphragmatic Nodule																						X		X	

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 Species/Strain: RATS/F 344

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 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

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	DAY ON TEST		7	6	7	7	5	7	7	6	6	6	6	7	7	6	6	7	7	5	7	6	4	6	7	7	7
			0	0	2	2	6	2	2	5	1	7	5	2	2	9	5	2	2	9	2	2	8	7	2	2	2
			2	2	8	8	6	8	7	8	0	9	0	8	7	5	4	8	8	4	8	4	5	0	8	7	8
FISCHER 344 RATS MALE 20 MG/KG	ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	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	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
			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
Inflammation			1	2	1	1			1	1	1	1		1		2		1	2		1		1	2	1	1	1
Mixed Cell Focus										X				X											X		
Necrosis											3			1		2											
Pigmentation																											
Bile Duct, Fibrosis																											
Bile Duct, Hyperplasia			2	1	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	3	1	2	2	2	2
Centrilobular, Degeneration						2						3		3		2				3							
Oval Cell, Hyperplasia						1	1	1					1	1	2					1	1	1					
Mesentery					+						+	+				+			+	+							
Fat, Necrosis					3							3				3			3	3							
Oral Mucosa					+	+		+	+	+	+	+	+		+	+			+	+		+		+			
Gingival, Hyperplasia, Squamous					1	1		1	1	1	2	2	1		1	2			1	2		1		1			
Pancreas					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell																									X		
Inflammation, Chronic Active			1		2		1							1	2	1				1			1		1	1	1
Vacuolization Cytoplasmic																											
Acinus, Atrophy			1		3		2	2						2	3	2							2		2	2	2
Acinus, Hyperplasia																											
Duct, Cyst																					2						
Salivary Glands					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Vacuolization Cytoplasmic																											
Stomach, Forestomach					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation												1															
Ulcer												2															

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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		0	0	2	2	6	2	2	5	1	7	5	2	2	9	5	2	2	9	2	2	8	7	2	2	2
		2	2	8	8	6	8	7	8	0	9	0	8	7	5	4	8	8	4	8	4	5	0	8	7	8
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
20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
		males (cont...)																								

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Edema																									
Erosion																									
Mineralization																									
Tongue																									
Tooth		+	+	+	+		+	+	+	+	+		+	+			+	+	+	+		+			+
Peridontal Tissue, Inflammation		1	1	1	1		1	1	1	1	1		1	3			1	1	1	1		1			1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	1	2	1	2	2	2	2	2	2	2	3	2	2	2	2	2	1	2	2	2	2	2	3	2
Thrombosis																								3	

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis			2				3	2		1					1		2			2			1	2	1
Hematopoietic Cell Proliferation								1																	
Hyperplasia			1				2																	2	
Hypertrophy	3												2	2											
Infiltration Cellular, Mononuclear Cell																									
Vacuolization Cytoplasmic	3	2		1					2		1	2	1		1		1	2		1	1	1	1	1	

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		DAY ON TEST																											
		7 0 2	6 0 2	7 2 8	7 2 8	5 6 6	7 2 8	7 2 7	6 5 8	6 1 0	6 7 9	6 5 0	7 2 8	7 2 7	6 9 5	6 5 4	7 2 8	7 2 8	5 9 4	7 2 8	6 2 4	4 8 5	6 7 0	7 2 8	7 2 7	7 2 8			
																													
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		
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		
20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	males (cont...)	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7		
		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			
																													
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Angiectasis																													
Hyperplasia		1						1		2				3				3		2			1	1					
Infiltration Cellular, Mononuclear Cell																										X			
																													
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hyperplasia				2																									
																													
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
																													
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Angiectasis		3						3			3			2	2		1	3		1						2	1		
Cyst							2		2																				
Pars Distalis, Hyperplasia				1	2	2			1			2	3		3					3	2			2	2				
Pars Intermedia, Hyperplasia																													
																													
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
C-cell, Hyperplasia				1	1											1		1					1			2			

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Coagulating Gland
Inflammation

+

3

TDMS No. 88123 - 05
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		0	0	2	2	6	2	2	5	1	7	5	2	2	9	5	2	2	9	2	2	8	7	2	2	2
FISCHER 344 RATS MALE 20 MG/KG	ANIMAL ID	2	2	8	8	6	8	7	8	0	9	0	8	7	5	4	8	8	4	8	4	5	0	8	7	8
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	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	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		2	3	2	2		2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	3	2	2	2	2
Duct, Ectasia					1	2				2		1				2		1			2					
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst				2																						
Inflammation		3	4	2		1	1	2	2		2			3		1		3	2		2	1				
Epithelium, Hyperplasia				2		3					3															
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			2																							
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Germinal Epithelium, Atrophy																										
Interstitial Cell, Hyperplasia																										

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	2			3						2												2			
Hyperplasia		3	2			3		3	3		3	3	3	2	3	3		3	2	3				2	
Lymph Node																									
Deep Cervical, Ectasia															+		+		+			+			
Deep Cervical, Hemorrhage																						2			
Mediastinal, Ectasia																						1			
Mediastinal, Hemorrhage																									

* .. 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

Page 22

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST	7	6	7	7	5	7	7	6	6	6	6	7	7	6	6	7	7	5	7	6	4	6	7	7	7
		0	0	2	2	6	2	2	5	1	7	5	2	2	9	5	2	2	9	2	2	8	7	2	2	2
		2	2	8	8	6	8	7	8	0	9	0	8	7	5	4	8	8	4	8	4	5	0	8	7	8
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
20 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	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	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
		males (cont...)																								

Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis																										
Hematopoietic Cell Proliferation	1	1	1	1			1	3	3	1		1		1		2	1		1		1	1	1		1	
Hyperplasia, Histiocytic																										
Hyperplasia, Lymphoid, Focal															X											
Hyperplasia, Focal																										
Pigmentation	2	1	1	1			1	1		2				1			1		1			2	1	1	1	
Lymphoid Follicle, Atrophy									3																	
Lymphoid Follicle, Depletion Cellular																										
Red Pulp, Atrophy																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	3	3	3	3	3	3	4	3	3	2	4		3		3	3	4	2	3	3	3	3	3	3	3

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+
Cyst	3						2																			
Hyperplasia	2						2								1											
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	6	7	7	5	7	7	6	6	6	6	7	7	6	6	7	5	7	6	4	6	7	7	7	
		0	0	2	2	6	2	2	5	1	7	5	2	2	9	5	2	2	9	2	2	8	7	2	2	
		2	2	8	8	6	8	7	8	0	9	0	8	7	5	4	8	8	4	8	4	5	0	8	7	8
.....																										
FISCHER 344 RATS MALE 20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		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	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
		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
ANIMAL ID		males (cont...)																								

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																									
Mineralization																									
Peripheral Nerve	+																								
Spinal Cord	+																								

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																									
Inflammation																									
Metaplasia, Squamous																									
Alveolar Epithelium, Hyperplasia																									
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1		1	1	1		1		2		1	2		1	1		1	1	1		1	1
Artery, Thrombosis																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lateral Wall, Inflammation																									
Nasolacrimal Duct, Inflammation																									

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	6	7	7	5	7	7	6	6	6	6	7	7	6	6	7	7	5	7	6	4	6	7	7	7
		0	0	2	2	6	2	2	5	1	7	5	2	2	9	5	2	2	9	2	2	8	7	2	2	2
		2	2	8	8	6	8	7	8	0	9	0	8	7	5	4	8	8	4	8	4	5	0	8	7	8
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
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
20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
		males (cont...)																								

Nasopharyngeal Duct, Inflammation																										3
Nasopharyngeal Duct, Ulcer																										2
Respiratory Epithelium, Hyperplasia				1		1	1	1		1		1	1						1	1			1		1	
Septum, Inflammation								1							1	1			2			1	1		1	
Turbinate, Inflammation								1														1				
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																			1							

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Choroid, Hyperplasia													2													
Ciliary Body, Iris, Inflammation																										
Cornea, Inflammation																										
Lens, Degeneration			3																							
Retina, Atrophy		4											2													
Sclera, Mineralization	1		2				2	1	2		2		2	2					2	2		2	2	3		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia															2											
Inflammation				1		1								1			1									

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet																										
Cyst																										

* .. 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:

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2) Mild 4) Marked

Page 25

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7 0 2	6 0 2	7 2 8	7 2 8	5 6 6	7 2 8	7 2 7	6 5 8	6 1 0	6 7 9	6 5 0	7 2 8	7 2 7	6 9 5	6 5 4	7 2 8	7 2 4	5 9 4	7 2 8	6 2 4	4 8 5	6 7 0	7 2 8	7 2 7	7 2 8
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
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
20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
		males (cont...)																								
Mineralization		1	1	1	1	1		1	1	1	1	1		1	1	1	1	1		1	1	1	1		1	
Necrosis																										
Nephropathy		1	1	2	2	1	2	2	1	1	2	2	2	2	1	2	2	2		2	1	1	2	3	2	1
Pigmentation										2		2				1										
Transitional Epithelium, Hyperplasia		2																								
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																										
Inflammation													1													
Ulcer																										

TDMS No. 88123 - 05
Test Type: CHRONIC
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Date Report Reqsted: 12/05/2005
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Lab: BAT

		FISCHER 344 RATS MALE 20 MG/KG																									
		DAY ON TEST																									
		7 2 7	7 2 8	7 2 7	6 5 0	7 2 7	4 7 7	6 5 7	7 2 7	6 1 2	7 2 7	7 2 8	7 2 8	6 4 3	7 2 8	5 7 3	7 2 7	5 6 1	7 2 7	7 2 7	5 2 7	5 8 8	7 2 8	7 2 7	6 3 7		
FISCHER 344 RATS MALE 20 MG/KG		ANIMAL ID																									
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
		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	* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan																	X										2
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan	X			X				X		X																	9
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis				2			1																				2 1.5
Basophilic Focus	1	1	1	1	1			1	1	1	1	1	1		1	1	1		1		1		1	1	1		34 1.0
Clear Cell Focus	X	X	X		X			X		X	X		X		X		X		X				X				19
Degeneration, Cystic		1									2									2							6 1.7
Eosinophilic Focus		X			X		X		X				X		X								X	X			16
Fatty Change, Focal				1		1		1		1			1											1			9 1.1
Fatty Change, Diffuse	1				1			1		2	2				2	2		1			3						14 1.5
Hematopoietic Cell Proliferation							1													1							4 1.0
Hepatodiaphragmatic Nodule							X			X		X				X							X				7

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Page 27

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		DAY ON TEST																									
		7	7	7	6	7	4	6	7	6	7	7	7	7	6	7	5	7	5	7	7	5	5	7	7	6	
		2	2	2	5	2	7	5	2	1	2	2	2	2	4	2	7	2	6	2	2	2	8	2	2	3	
		7	8	7	0	7	7	7	7	2	7	8	8	7	3	8	3	7	1	7	7	7	8	7	7	7	
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	
20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
		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	
		* TOTALS																									
Inflammation		1	2		1	1		1	1	1	2	2	1		1		1		2		1		2	1	1	36	
Mixed Cell Focus		X		X		X			X		X	X												X		10	
Necrosis													1													4	
Pigmentation																										1	
Bile Duct, Fibrosis																										1	
Bile Duct, Hyperplasia			2	2	2	2		2	2	2	2	2	1	3	2	3	2	2	2	2	2	3	2	2	2	48	
Centrilobular, Degeneration														2				3	2							8	
Oval Cell, Hyperplasia						1				1				2					1		1	1				15	
Mesentery		+	+	+									+			+				+						12	
Fat, Necrosis		3	3	3									3			3										10	
Oral Mucosa		+			+	+		+	+	+	+	+			+	+							+	+	+	27	
Gingival, Hyperplasia, Squamous		1			1	1		2	1	1	1	1			1		1						1	1	1	27	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Mononuclear Cell														X												2	
Inflammation, Chronic Active		2			2	1	1	1			1	2	1	1			1		2		1		1		2	24	
Vacuolization Cytoplasmic																				2						1	
Acinus, Atrophy		3				1	2				2	2	3				2		2		2		2		2	21	
Acinus, Hyperplasia									2						2		2									3	
Duct, Cyst					2																					2	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Vacuolization Cytoplasmic														2												1	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																										1	
Ulcer																										1	

* .. 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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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7	7	7	6	7	4	6	7	6	7	7	7	7	6	7	5	7	5	7	7	5	5	7	7	6
DAY ON TEST		2	2	2	5	2	7	5	2	1	2	2	2	2	4	2	7	2	6	2	2	2	8	2	2	3
		7	8	7	0	7	7	7	7	2	7	8	8	7	3	8	3	7	1	7	7	7	8	8	7	7
FISCHER 344 RATS MALE 20 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst											1															1 1.0
Edema																								2		1 2.0
Erosion																								2		3 2.0
Mineralization																		1								1 1.0
Tongue		1																								
Tooth		+		+	+	+		+	+	+	+	+	+		+		+						+	+		32
Peridontal Tissue, Inflammation		1		1	1	1		1	1	1	2	1	1	2		1	2							1	1	32 1.2

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	2	2	2	1	2	2	1	2	2	1	2	2	2	1	2	2	2	3	2		1	2	2	1	2	50 1.9
Thrombosis																					2					2 2.5

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis	2	1			2											2		2				1		2	2	18 1.7
Hematopoietic Cell Proliferation																										1 1.0
Hyperplasia					2				2				2													6 1.8
Hypertrophy											1			2	2		2					2				8 2.0
Infiltration Cellular, Mononuclear Cell																							X			1
Vacuolization Cytoplasmic			1		1	1		1	2	1	1	2	2	2	2		1			1				1		29 1.4

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

+ .. Tissue examined microscopically

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Page 29

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Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		FISCHER 344 RATS MALE 20 MG/KG																									
		DAY ON TEST																									
		7 2 7	7 2 8	7 2 7	6 5 0	7 2 7	4 7 7	6 5 7	7 2 7	6 1 2	7 2 7	7 2 8	7 2 8	7 2 7	6 4 3	7 2 8	5 7 3	7 2 7	5 6 1	7 2 7	7 2 7	5 2 7	5 8 8	7 2 8	7 2 7	6 3 7	
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	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
		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	* TOTALS

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis			3																			2				2	2.5
Hyperplasia	1		3												2		2			2						13	1.8
Infiltration Cellular, Mononuclear Cell	X																									2	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	1											1											3			4	1.8
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	49	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis	2	2	3							3	2	3								2				2		18	2.2
Cyst																										2	2.0
Pars Distalis, Hyperplasia	3	3		2		2		2	1		2			1		2		1					2		1	23	2.0
Pars Intermedia, Hyperplasia			2																							1	2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia		1	3	1					1		1				1	2	1			1	1		1		2	18	1.3

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Coagulating Gland																										1	
Inflammation																										1	3.0

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 Species/Strain: RATS/F 344

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 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		FISCHER 344 RATS MALE 20 MG/KG																									
DAY ON TEST		7 2 7	7 2 8	7 2 7	6 5 0	7 2 7	4 7 7	6 5 7	7 2 7	6 1 2	7 2 7	7 2 8	7 2 8	6 4 3	7 2 8	5 7 3	7 2 7	5 6 1	7 2 7	7 2 7	5 2 7	5 8 8	7 2 8	7 2 7	6 3 7		
ANIMAL ID		0 0 0 7 6	0 0 0 7 7	0 0 0 7 8	0 0 0 7 9	0 0 0 8 0	0 0 0 8 1	0 0 0 8 2	0 0 0 8 3	0 0 0 8 4	0 0 0 8 5	0 0 0 8 6	0 0 0 8 7	0 0 0 8 8	0 0 0 8 9	0 0 0 9 0	0 0 0 9 1	0 0 0 9 2	0 0 0 9 3	0 0 0 9 4	0 0 0 9 5	0 0 0 9 6	0 0 0 9 7	0 0 0 9 8	0 0 0 9 9	0 0 1 0 0	
		* TOTALS																									
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation		2	2	2	1	2		2	1	2	2		2	3	2	1	2	2	2	2	2	1	2	3	2	47	2.0
Duct, Ectasia							2				2				2	1		2			2			2	2	14	1.7
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																										1	2.0
Inflammation		2		2	2		1	2	2	2	2	2	2		2	3							2		1	29	2.0
Epithelium, Hyperplasia				3	2							2	2													7	2.4
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																										1	2.0
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Germinal Epithelium, Atrophy														4												1	4.0
Interstitial Cell, Hyperplasia								2																		1	2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																								5 2.2
Hyperplasia		2				2	2		3		2			4					3	4		2		24 2.7
Lymph Node						+					+													8
Deep Cervical, Ectasia																								1 2.0
Deep Cervical, Hemorrhage															2									2 1.5
Mediastinal, Ectasia																								2 3.0
Mediastinal, Hemorrhage						1																		1 1.0

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Lab: BAT

		7	7	7	6	7	4	6	7	6	7	7	7	7	6	7	5	7	5	7	7	5	5	7	7	6
DAY ON TEST		2	2	2	5	2	7	5	2	1	2	2	2	2	4	2	7	2	6	2	2	2	8	2	2	3
		7	8	7	0	7	7	7	7	2	7	8	8	7	3	8	3	7	1	7	7	7	8	8	7	7
FISCHER 344 RATS MALE 20 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	1
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	2	+	+	+	+	2	2	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	+	+	+	+	+	+	+	50
Fibrosis																										1
Hematopoietic Cell Proliferation	1	1		1	1	2	1	1	3	1	1	1			1	1		1		3			1			34
Hyperplasia, Histiocytic									2																	1
Hyperplasia, Lymphoid, Focal																										1
Hyperplasia, Focal												2														1
Pigmentation	1	1	1	1	1		1			1	1	2	1		1	1	1		1			1	1	1		31
Lymphoid Follicle, Atrophy																										1
Lymphoid Follicle, Depletion Cellular																2								2		2
Red Pulp, Atrophy												2														1
Thymus	M	+	+	M	+	+	+	M	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Atrophy		3	2		3		3		3	3			3	3	3	4	3		3		2	4	2	4	4	40

INTEGUMENTARY SYSTEM

Mammary Gland Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hyperplasia															1				2						4
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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Page 32

TDMS No. 88123 - 05
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Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

FISCHER 344 RATS MALE 20 MG/KG	DAY ON TEST	7	7	7	6	7	4	6	7	6	7	7	7	7	6	7	5	7	5	7	7	5	5	7	7	6
		2	2	2	5	2	7	5	2	1	2	2	2	2	4	2	7	2	6	2	2	2	8	2	2	3
		7	8	7	0	7	7	7	7	2	7	8	8	7	3	8	3	7	1	7	7	7	8	8	7	7
	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	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemorrhage																										1 3.0
Mineralization																										1 1.0
Peripheral Nerve																										1
Spinal Cord																										1

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemorrhage																										2 2.5
Inflammation																										2 2.0
Metaplasia, Squamous																										1 1.0
Alveolar Epithelium, Hyperplasia																										12 1.7
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1	1		1		1		1	1	1		1		1	1		1	1			1	1	33 1.0
Artery, Thrombosis																										1 3.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lateral Wall, Inflammation																										4 1.8
Nasolacrimal Duct, Inflammation	3	2					2																			4 2.3

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		7	7	7	6	7	4	6	7	6	7	7	7	7	6	7	5	7	5	7	7	5	5	7	7	6	
DAY ON TEST		2	2	2	5	2	7	5	2	1	2	2	2	2	4	2	7	2	6	2	2	2	8	2	2	3	
		7	8	7	0	7	7	7	7	2	7	8	8	7	3	8	3	7	1	7	7	7	8	8	7	7	
FISCHER 344 RATS MALE																											
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	
20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
		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	
																										* TOTALS	
Mineralization		1	1	1	1	1		1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	43 1.0	
Necrosis																				2						1 2.0	
Nephropathy		1	2		1	2	1	2	3	1	2	2	3	1	1	3	1	3	1	2	2	1	1	2	2	1	48 1.7
Pigmentation									1						3						1	2				7 1.7	
Transitional Epithelium, Hyperplasia																										1 2.0	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																									2	1 2.0	
Inflammation																										1 1.0	
Ulcer																									3	1 3.0	

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 Species/Strain: RATS/F 344

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 Lab: BAT

	DAY ON TEST	4	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	7	5	6	7	5
		9	2	2	2	2	2	5	2	0	2	2	2	3	2	2	2	4	2	2	2	2	8	5	0	1
		6	7	8	8	8	8	7	7	2	7	8	8	7	7	7	8	9	8	8	7	8	2	4	2	2
FISCHER 344 RATS MALE 40 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		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
Eosinophilic Focus					X									X			X	X	X	X				X		
Fatty Change, Focal							1	1	3	1				2	1											
Fatty Change, Diffuse		1	1	1		1												2				1	1	1		
Hematopoietic Cell Proliferation							1																			
Hepatodiaphragmatic Nodule														X			X			X						
Inflammation		1	1	1	1	2	1	1	2	2	1	1	2		1	1	1		1	1	1	2	1		1	
Mixed Cell Focus					X	X	X		X		X	X	X			X			X		X	X			X	
Necrosis				2										2												3
Regeneration																										
Vacuolization Cytoplasmic, Focal										1																
Bile Duct, Hyperplasia		2	2	2	3	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	1	1	3	2	
Centrilobular, Degeneration																										
Oval Cell, Hyperplasia				1			1	1	1		1			1			1		1		1			2		
Mesentery																										
Hemorrhage																										2
Fat, Necrosis																										
Oral Mucosa																										
Gingival, Hyperplasia, Squamous																										
Pancreas																										
Basophilic Focus																										
Infiltration Cellular, Mononuclear Cell		X								X																
Inflammation, Chronic Active																										
Acinus, Atrophy																										
Acinus, Hyperplasia																										
Duct, Cyst																										
Salivary Glands																										

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		4	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	7	5	6	7	5		
		9	2	2	2	2	2	5	2	0	2	2	2	3	2	2	2	4	2	2	2	2	8	5	0	1		
		6	7	8	8	8	8	7	7	2	7	8	8	7	7	7	8	9	8	8	7	8	2	4	2	2		
.....																												
FISCHER 344 RATS MALE 40 MG/KG		ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				0	0	0	0	0	0	0	0	0	0	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	1	1	1	1	1	1
				0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
				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
males (cont...)																												

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Ulcer						1											2								
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ulcer																									2
Tooth		+	+	+	+	+					+			+	+		+	+		+		+	+		
Peridental Tissue, Inflammation		1	1	1	2	1				1			1	1		1	1		1	1		2		2	1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	2	2	2	1	2	1	3	1	2	3	2		2	2	2	2	3	2	3	3	2	2	2	2
Thrombosis							2																		

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis		2	2		2	1				2	1			2	1	1		1				1		2	
Hematopoietic Cell Proliferation																									
Hyperplasia						2							2	1											
Hypertrophy																		2		2	2		2		
Infiltration Cellular, Mononuclear Cell		X	X							X	X														
Vacuolization Cytoplasmic	1				1	2		2		1			1	2	1			2	2	1	2	1	1	1	2

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+ .. Tissue examined microscopically

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2) Mild 4) Marked

Page 38

TDMS No. 88123 - 05
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Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
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	DAY ON TEST	4	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	7	5	6	7	5
		9	2	2	2	2	2	5	2	0	2	2	2	3	2	2	2	4	2	2	2	2	8	5	0	1
		6	7	8	8	8	8	7	7	2	7	8	8	7	7	7	8	9	8	8	7	8	2	4	2	2
FISCHER 344 RATS MALE ANIMAL ID 40 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		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
		males (cont...)																								

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Infiltration Cellular, Mononuclear Cell				3														3						1	
		X																							
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia											2			2		2									
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	2			2				2	3				3			1	3		3						
Cyst																									
Pars Distalis, Hyperplasia		2			1		1			1	1		2	1	2		1			2				2	2
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia					1			3		1				1				1		1					
Follicular Cell, Hyperplasia				1																					

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Coagulating Gland

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

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Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		4	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	7	5	6	7	5
DAY ON TEST		9	2	2	2	2	2	5	2	0	2	2	2	3	2	2	2	4	2	2	2	2	8	5	0	1
		6	7	8	8	8	8	7	7	2	7	8	8	7	7	7	8	9	8	8	7	8	2	4	2	2
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
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
40 MG/KG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		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
		males (cont...)																								
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																										
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		2	2		1	2	2	2	2	2	2	2	2	3	2	2		2	2	2	2		2	2	2	2
Duct, Ectasia													2													
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			2	1	2					1			2	3		1	2		2	1	1		2	1	1	
Epithelium, Hyperplasia									3											3						
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Germinal Epithelium, Atrophy																										
Germinal Epithelium, Degeneration																										
Interstitial Cell, Hyperplasia																										

HEMATOPOIETIC SYSTEM

Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy					2		2			2																
Hyperplasia		3					3	2					4			2			2			3				
Lymph Node																										
Mediastinal, Ectasia																										
Lymph Node, Mandibular		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

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

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Page 40

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

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Lab: BAT

DAY ON TEST		4	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	7	5	6	7	5	
		9	2	2	2	2	2	5	2	0	2	2	2	3	2	2	2	4	2	2	2	2	8	5	0	1	
		6	7	8	8	8	8	7	7	2	7	8	8	7	7	7	8	9	8	8	7	8	2	4	2	2	
FISCHER 344 RATS MALE 40 MG/KG																											
		ANIMAL ID																									
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	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	1	1	1	1	1	1	
40 MG/KG		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	males (cont...)
		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	

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																									
Hemorrhage										2															
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Spleen			X																						
Hematopoietic Cell Proliferation		1		1	1		2	1	1	1	1		2	2	1		1	1	1	1	2		1		
Hyperplasia, Histiocytic																									
Pigmentation	2	1			1	1		1	2	1	1	1		1	1	2	3	1	1	1	1	2		1	
Thymus	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	3	3	2	2	3	3	3		3	3	3	3		3	4	4	4	3	3	2	3	2	3	4	

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst				2																					
Hyperplasia																		2							
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																									

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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

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Page 41

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

FISCHER 344 RATS MALE 40 MG/KG	DAY ON TEST	4	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	7	5	6	7	5
		9	2	2	2	2	2	5	2	0	2	2	2	3	2	2	2	4	2	2	2	2	8	5	0	1
		6	7	8	8	8	8	7	7	2	7	8	8	7	7	7	8	9	8	8	7	8	2	4	2	2
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	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	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		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
		males (cont...)																								

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage														2											
Hydrocephalus										2															
Mineralization																									
Peripheral Nerve																									+
Spinal Cord																									+

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation														2									1		
Metaplasia, Squamous																									
Alveolar Epithelium, Hyperplasia					1		2					2					2		1		2				
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1					1	1	1	1	1		1	1	1	1	1	1	1			1	
Vein, Hemorrhage																						3			
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Glands, Hyperplasia																									
Lateral Wall, Inflammation	2																								1
Nasolacrimal Duct, Inflammation													3				3								
Nasopharyngeal Duct, Inflammation																									
Olfactory Epithelium, Metaplasia																									
Respiratory Epithelium, Hyperplasia	2		2	1	1	1				1	1	1				1			1	3	1	2	1		
Septum, Inflammation			1			1					1	1				1	2		1		2	1		1	

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		9	2	2	2	2	2	5	2	0	2	2	2	3	2	2	2	4	2	2	2	2	8	5	0	1
		6	7	8	8	8	8	7	7	2	7	8	8	7	7	7	8	9	8	8	7	8	2	4	2	2
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	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	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		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
		males (cont...)																								

Turbinate, Inflammation	2	2	2								1	1		1	2				2	1					
Trachea Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
											1													1	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ciliary Body, Iris, Inflammation	4																								
Cornea, Inflammation	4																								
Retina, Degeneration																									
Sclera, Mineralization			2		2		2			2				1	2	2			2				2		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia								2				3													
Inflammation			1					1						1	2										
Lacrimal Gland			+																						
Zymbal's Gland	+																								

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet																									
Cyst											2														
Mineralization	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nephropathy	1	1	2	3	2	2	2	3	1	2	2	2	2	1	2	3	2	3	2	2	3	2	2	2	1

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Page 43

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

	DAY ON TEST	4 9 6	7 2 7	7 2 8	7 2 8	7 2 8	7 2 8	6 5 7	7 2 7	7 0 2	7 2 7	7 2 8	7 2 8	6 3 7	7 2 7	7 2 7	6 4 9	7 2 8	7 2 8	7 2 7	7 2 8	5 8 2	6 5 4	7 0 2	5 1 2		
																											
FISCHER 344 RATS MALE 40 MG/KG	ANIMAL ID	0 0 1 0 1	0 0 1 0 2	0 0 1 0 3	0 0 1 0 4	0 0 1 0 5	0 0 1 0 6	0 0 1 0 7	0 0 1 0 8	0 0 1 0 9	0 0 1 1 0	0 0 1 1 1	0 0 1 1 2	0 0 1 1 3	0 0 1 1 4	0 0 1 1 5	0 0 1 1 6	0 0 1 1 7	0 0 1 1 8	0 0 1 1 9	0 0 1 2 0	0 0 1 2 1	0 0 1 2 2	0 0 1 2 3	0 0 1 2 4	0 0 1 2 5	males (cont...)
Pigmentation																											
Transitional Epithelium, Hyperplasia																											
																											
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																											
Inflammation																											
Transitional Epithelium, Hyperplasia		1												2													

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DAY ON TEST		6	7	7	6	7	3	6	5	7	6	5	6	5	5	7	7	7	6	7	7	7	7	6	7	7	
		9	0	2	2	2	3	6	8	2	7	8	3	2	9	2	2	2	5	2	2	2	2	9	2	2	
		2	0	8	2	3	2	5	7	8	2	7	1	6	1	8	7	7	7	8	8	1	7	7	3	8	8
FISCHER 344 RATS MALE ANIMAL ID 40 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	1	1	1	1	1	1	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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	* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan																								X		1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan								X					X	X	X										X	11
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemorrhage																										1 2.0
Inflammation, Chronic Active							4																			1 4.0
Mineralization							2																			1 2.0
Perforation																										1 2.0
Ulcer							3																			1 3.0
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis															1						2					2 1.5
Basophilic Focus			1	1	1		1			1	1		1		1	1			1	1	1	1	1	2		33 1.0
Clear Cell Focus				X						X						X	X		X		X	X		X		24
Degeneration, Cystic																										2 1.0

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I .. Insufficient tissue
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		DAY ON TEST																									
		6	7	7	6	7	3	6	5	7	6	5	6	5	5	7	7	7	6	7	7	7	6	7	7		
		9	0	2	2	2	3	6	8	2	7	8	3	2	9	2	2	2	5	2	2	2	9	2	2		
		2	0	8	2	3	2	5	7	8	2	7	1	6	1	8	7	7	7	8	1	7	7	3	8	8	
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	
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	
40 MG/KG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
		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	* TOTALS
Eosinophilic Focus					X														X							8	
Fatty Change, Focal																1	1	1		X	1				1	12 1.3	
Fatty Change, Diffuse		2	2			2		2			1															13 1.4	
Hematopoietic Cell Proliferation						2					1		1		1											5 1.2	
Hepatodiaphragmatic Nodule			X						X		2			X									X			8 2.0	
Inflammation			1	1			1			2	1		1	2	1	1	1	1		1	1		1	1	1	38 1.2	
Mixed Cell Focus				X			X			X	X			X		X	X					X	X		X	22	
Necrosis				1		1																				5 1.8	
Regeneration									2																	1 2.0	
Vacuolization Cytoplasmic, Focal																										1 1.0	
Bile Duct, Hyperplasia		3	2	2	3	1		2	2	2	1	2	2	2	2	2	2	2	3	2	2	2	2	2	1	47 2.0	
Centrilobular, Degeneration		2	2		1	3		3	2			2							2							8 2.1	
Oval Cell, Hyperplasia		2	1		2			1		1		1	1					1	2			1				20 1.2	
Mesentery		+			+								+									+				7	
Hemorrhage																										1 2.0	
Fat, Necrosis		3			3									3									3			6 2.8	
Oral Mucosa		+		+		+		+	+		+		+	+		+	+	+	+	+	+	+	+	+	+	29	
Gingival, Hyperplasia, Squamous		1		1		1		2	1		1		1	1		1	1	1	1	1	1	1	1	1	2	1	29 1.1
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basophilic Focus																										2 1.0	
Infiltration Cellular, Mononuclear Cell			X														X				X					7	
Inflammation, Chronic Active		2	1	2	2	1			1	1				1	1	2				1			1	1	2	25 1.5	
Acinus, Atrophy		3	1		2	2			2	2				2	1	1				1			2	2		21 1.9	
Acinus, Hyperplasia																									3	1 3.0	
Duct, Cyst																									2	2 2.0	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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		9	0	2	2	2	3	6	8	2	7	8	3	2	9	2	2	2	5	2	2	2	2	9	2	2
		2	0	8	2	3	2	5	7	8	2	7	1	6	1	8	7	7	7	8	1	7	7	3	8	8
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
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
40 MG/KG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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
		* TOTALS																								

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										2 1.5
Ulcer																										1 2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ulcer																										1 2.0
Tooth	+		+		+		+	+				+	+		+	+	+		+	+	+	+	+	+	+	30
Peridental Tissue, Inflammation	3		1		1		3	2				1	2		2	1	1		2	1	1	1	1	1	1	30 1.4

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	2	1	2	2	2	2	2	2	2	1	2	2	2	1	3	2	2		2	2	2	3	1	1	2	48 2.0
Thrombosis					2																					2 2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis			2		1											2	2		2	2		1		2		20 1.6
Hematopoietic Cell Proliferation														1												1 1.0
Hyperplasia	1															1			1			2		2		9 1.4
Hypertrophy							1		2		1				2			2		2		2				10 1.8
Infiltration Cellular, Mononuclear Cell			X		X														X	X	X					9
Vacuolization Cytoplasmic	1	2		2		1	1		1	2	1		1		2		1	1	2	1	2	1		1		33 1.4

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FISCHER 344 RATS MALE 40 MG/KG		DAY ON TEST																								
		6 9 2	7 0 0	7 2 8	6 2 2	7 2 3	3 3 2	6 6 5	5 8 7	7 2 8	6 7 2	5 8 7	6 3 1	5 2 6	5 9 1	7 2 8	7 2 7	7 2 7	6 5 7	7 2 8	7 2 1	7 2 7	7 2 7	6 9 3	7 2 8	7 2 8
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	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	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	2				3			1	2		2	3			2			1	3				1	1	1		15 1.9
Infiltration Cellular, Mononuclear Cell																										1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																											3 2.0
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia																			2								1 2.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis		2	2				3		3	2					3					2	3	3	3	2	3		20 2.5
Cyst					1			1								2											3 1.3
Pars Distalis, Hyperplasia	2					2						1		3		1	1		2								19 1.6
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia		2	1	1			1		2	1		3		2	1								3		2		17 1.6
Follicular Cell, Hyperplasia																						2					2 1.5

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Coagulating Gland	+																										1
-------------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

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		9	0	2	2	2	3	6	8	2	7	8	3	2	9	2	2	2	5	2	2	2	2	2	9	2
FISCHER 344 RATS MALE 40 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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
		* TOTALS																								

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation						1																				1	1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation	2	3		2	2	2	2		2	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	45	2.0
Duct, Ectasia						2																				2	2.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation	2	3	2		1		3	2	2	2	2	1	2	2	2	2	1	2		2		2	2	1	2	35	1.8
Epithelium, Hyperplasia						2								2					2				2	2		7	2.3
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Germinal Epithelium, Atrophy						4																				1	4.0
Germinal Epithelium, Degeneration		2																								1	2.0
Interstitial Cell, Hyperplasia													2													1	2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																										3	2.0
Hyperplasia				4	2	3	4	4		3	3	4	4	3		2	4		2	2		2				22	3.0
Lymph Node	+	+		+				+			+									+	+					8	
Mediastinal, Ectasia																					3					1	3.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0	

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		9	0	2	2	2	3	6	8	2	7	8	3	2	9	2	2	2	5	2	2	2	2	9	2	2	
		2	0	8	2	3	2	5	7	8	2	7	1	6	1	8	7	7	7	8	1	7	7	3	8	8	
FISCHER 344 RATS MALE ANIMAL ID 40 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	1	1	1	1	1	1	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
		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	* TOTALS

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hemorrhage																							2		2	2.0	
Hydrocephalus																									1	2.0	
Mineralization															2											1	2.0
.....																											
Peripheral Nerve																										1	
.....																											
Spinal Cord																										1	

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation						2															2				4	1.8	
Metaplasia, Squamous																									1	2.0	
Alveolar Epithelium, Hyperplasia							3								2				1				2		10	1.8	
Alveolus, Infiltration Cellular, Histiocyte		1	1		1	1				1			1	1		1		1	1	1	1		1		31	1.0	
Vein, Hemorrhage																									1	3.0	
.....																											
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Glands, Hyperplasia																									1	2.0	
Lateral Wall, Inflammation			2						1	2					1									1	7	1.4	
Nasolacrimal Duct, Inflammation																					2				4	2.5	
Nasopharyngeal Duct, Inflammation			3																						1	3.0	
Olfactory Epithelium, Metaplasia																								2	1	2.0	
Respiratory Epithelium, Hyperplasia	1	2	1							2				1	1			1		1	1	1		3	25	1.4	
Septum, Inflammation			3							1	2				1			1	1			1		2	18	1.3	

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+ .. Tissue examined microscopically

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A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

Page 51

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		6	7	7	6	7	3	6	5	7	6	5	6	5	5	7	7	7	6	7	7	7	7	6	7	7
DAY ON TEST		9	0	2	2	2	3	6	8	2	7	8	3	2	9	2	2	2	5	2	2	2	2	9	2	2
		2	0	8	2	3	2	5	7	8	2	7	1	6	1	8	7	7	7	8	1	7	7	3	8	8
FISCHER 344 RATS MALE 40 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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

Turbinate, Inflammation	2								1	2					1		1			1		1		2		2	18	1.5
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation								1					2														4	1.3

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ciliary Body, Iris, Inflammation																											1	4.0
Cornea, Inflammation																											1	4.0
Retina, Degeneration										2																	1	2.0
Sclera, Mineralization	1	2	2		2		2	1	2			2			2	2		2	2	2	2	2	1	2			26	1.8
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																											2	2.5
Inflammation																											4	1.3
Lacrimal Gland																								+			2	
Zymbal's Gland																											1	

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accumulation, Hyaline Droplet				2							2	2															3	2.0
Cyst																											1	2.0
Mineralization	1	1	1	1		1	1	1	1	1	1	1		1			1	1	1	1	1	1	1	1	1		43	1.0
Nephropathy	1	3	2	1	2	1	3	2	2	3	1	2	1	1	2	2	3	1	3	2	1	3	1	3	4		50	2.0

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l .. Insufficient tissue

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2) Mild 4) Marked

Page 52

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

	DAY ON TEST	6	7	7	6	7	3	6	5	7	6	5	6	5	5	7	7	7	6	7	7	7	7	6	7	7
		9	0	2	2	2	3	6	8	2	7	8	3	2	9	2	2	2	5	2	2	2	2	9	2	2
		2	0	8	2	3	2	5	7	8	2	7	1	6	1	8	7	7	7	8	1	7	7	3	8	8
																										
FISCHER 344 RATS MALE	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
40 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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
		* TOTALS																								
Pigmentation		2				2												1								3 1.7
Transitional Epithelium, Hyperplasia																								1		1 1.0
																										
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemorrhage												2														1 2.0
Inflammation																										1 1.0
Transitional Epithelium, Hyperplasia																										1 2.0

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
 Time Report Reqsted: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

FISCHER 344 RATS MALE 80 MG/KG	DAY ON TEST	7 2 8	7 2 8	7 2 8	6 6 5	7 2 8	7 1 2	5 4 1	7 2 8	6 5 7	7 2 8	7 2 8	7 2 8	5 1 8	7 2 7	7 2 3	7 2 2	7 2 8	7 2 8	5 4 5	7 2 7	7 2 8	7 2 7	7 2 7	6 6 1	males (cont...)	
		0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1		
	ANIMAL ID	5 1	5 2	5 3	5 4	5 5	5 6	5 7	5 8	5 9	6 0	6 1	6 2	6 3	6 4	6 5	6 6	6 7	6 8	6 9	7 0	7 1	7 2	7 3	7 4		7 5

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																								
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																			X					
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan		X	X	X					X	X								X						
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																							2	
Basophilic Focus	1	1	1	1	1		1	1	1		1	1					1	1	1	1	1	1		
Clear Cell Focus	X	X	X		X			X											X		X			X
Degeneration, Cystic																							1	
Eosinophilic Focus								X		X	X	X						X	X		X	X		
Fatty Change, Focal		1					1								1									1
Fatty Change, Diffuse					1		1					1							1					
Hematopoietic Cell Proliferation										1			1											

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+ .. Tissue examined microscopically

x .. Lesion present

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		7	7	7	6	7	7	5	7	6	7	7	7	5	7	7	7	7	7	5	7	7	7	7	6		
DAY ON TEST		2	2	2	6	2	1	4	2	5	2	2	2	1	2	2	0	2	2	2	4	2	2	2	6		
		8	8	8	5	8	2	1	8	7	8	8	7	8	7	3	2	8	8	8	5	7	8	7	1		
FISCHER 344 RATS MALE 80 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	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	1	1	1	1	1		
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7		
		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	
Hepatodiaphragmatic Nodule		X												X		X											
Hyperplasia, Granulocytic																											
Inflammation		1	1	1	2		1		1	1	1	1	2		1	1		1	2	1	2	3	2	1			
Mixed Cell Focus												X												X			
Necrosis		2																									
Vacuolization Cytoplasmic, Diffuse																											
Bile Duct, Hyperplasia		2		2	2	2	1		2	3		2	2	2	1	2		2	1	2	2	2	2	2	3		
Centrilobular, Degeneration		2																									
Oval Cell, Hyperplasia		1								2				1				1								1	
Mesentery		+								+												+		+	+		
Fat, Necrosis		3								3												3		3	3		
Oral Mucosa																											
Gingival, Hyperplasia, Squamous		+								+		+								+		+	+	+		+	+
		1								1		1								1		2	1	2			
Pancreas																											
Infiltration Cellular, Mononuclear Cell		+																									
Inflammation, Chronic Active		1	2	1											2	1	2	3		2	1	2		1		1	1
Acinus, Atrophy		2		1											2	1	2	3		2		2		1		1	1
Acinus, Hyperplasia																											
Duct, Cyst		2																									
Salivary Glands																											
		+																									
Stomach, Forestomach		+																									
Edema																											
Erosion																											
Hyperplasia, Squamous																											
Inflammation																											

* .. 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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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	7	7	6	7	7	5	7	6	7	7	7	5	7	7	7	7	7	5	7	7	7	7	6	
		2	2	2	6	2	1	4	2	5	2	2	2	1	2	2	0	2	2	2	4	2	2	2	2	6
		8	8	8	5	8	2	1	8	7	8	8	7	8	7	3	2	8	8	8	5	7	8	7	7	1
.....																										
FISCHER 344 RATS MALE 80 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	males (cont...)
		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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	

Ulcer																								
Stomach, Glandular Erosion Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth Peridental Tissue, Inflammation		+	+					+		+				+	+	+	+		+	+	+	+		
		1	2					1		1				1	1	3	1		2	2	3	2		

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	1	2		1		2	1	1	1	2	1	1	1	1	2	1	1	1		1	2	2	1	2
Thrombosis																								1	
Endocardium, Hyperplasia																								2	

ENDOCRINE SYSTEM

Adrenal Cortex Angiectasis Degeneration, Cystic Hyperplasia Hypertrophy Infiltration Cellular, Mononuclear Cell Vacuolization Cytoplasmic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		1			2	1					2				3			2	1		1			
	2							2	2						1	2	1					2		2
					2							2						4			2			
	X										X	X		X	X					X				
	1				1			2	2		1	2	1	1		2	1		1	2	1	1		2

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Page 56

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7 2 8	7 2 8	7 2 8	6 6 5	7 2 8	7 1 2	5 4 1	7 2 8	6 5 7	7 2 8	7 2 7	5 1 8	7 2 7	7 2 3	7 0 2	7 2 8	7 2 8	5 4 5	7 2 7	7 2 8	7 2 7	7 2 7	6 6 1		
DAY ON TEST																										
FISCHER 344 RATS MALE		0 0 1 5 1	0 0 1 5 2	0 0 1 5 3	0 0 1 5 4	0 0 1 5 5	0 0 1 5 6	0 0 1 5 7	0 0 1 5 8	0 0 1 5 9	0 0 1 6 0	0 0 1 6 1	0 0 1 6 2	0 0 1 6 3	0 0 1 6 4	0 0 1 6 5	0 0 1 6 6	0 0 1 6 7	0 0 1 7 8	0 0 1 7 9	0 0 1 7 0	0 0 1 7 1	0 0 1 7 2	0 0 1 7 3	0 0 1 7 4	0 0 1 7 5
ANIMAL ID																										
80 MG/KG																										males (cont...)
Adrenal Medulla Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
			1												2	3	2	2	1	1			3			2
Islets, Pancreatic Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
				2																						
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis				2	2	2					2					3	3	2	1	3			2	2		
Cyst																										
Pars Distalis, Hyperplasia		2		2			2	1	3				2					2						1		
Pars Nervosa, Rathke's Cleft, Hyperplasia, Tubular																										
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia		1									1	1	1		1	1					3	2	1	1		
Follicle, Cyst																	2									
Follicular Cell, Hyperplasia																										

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		FISCHER 344 RATS MALE																									males (cont...)
DAY ON TEST		7 2 8	7 2 8	7 2 8	6 6 5	7 2 8	7 1 2	5 4 1	7 2 8	6 5 7	7 2 8	7 2 8	7 2 7	5 1 8	7 2 7	7 2 3	7 2 2	7 2 8	7 2 8	5 4 5	7 2 7	7 2 8	7 2 7	7 2 7	6 6 1		
ANIMAL ID		0 0 1 5 1	0 0 1 5 2	0 0 1 5 3	0 0 1 5 4	0 0 1 5 5	0 0 1 5 6	0 0 1 5 7	0 0 1 5 8	0 0 1 5 9	0 0 1 6 0	0 0 1 6 1	0 0 1 6 2	0 0 1 6 3	0 0 1 6 4	0 0 1 6 5	0 0 1 6 6	0 0 1 6 7	0 0 1 6 8	0 0 1 7 9	0 0 1 7 0	0 0 1 7 1	0 0 1 7 2	0 0 1 7 3	0 0 1 7 4	0 0 1 7 5	
80 MG/KG																											
Inflammation Duct, Ectasia		2	2	2	3	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Prostate Inflammation Epithelium, Degeneration Epithelium, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		1	2	1		2		2	2	1		2	2	2	1		2		2			2	2		2	2	
											2									3		2					
Seminal Vesicle		+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes Artery, Inflammation, Chronic Active Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

HEMATOPOIETIC SYSTEM

Bone Marrow Atrophy Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
				3		3	3		3	2		2	3	3		2		2		3	2	2		2	3
Lymph Node Deep Cervical, Ectasia Deep Cervical, Hyperplasia Deep Cervical, Hyperplasia, Plasma Cell															+		2								
Lymph Node, Mandibular Ectasia	M	M	M	M	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	+
															3										

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Page 58

Date Report Requested: 12/05/2005
Time Report Requested: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

FISCHER 344 RATS MALE 80 MG/KG	DAY ON TEST	7 2 8	7 2 8	7 2 8	6 6 5	7 2 8	7 1 2	5 4 1	7 2 8	6 5 7	7 2 8	7 2 8	7 2 8	5 1 8	7 2 7	7 2 3	7 2 2	7 2 8	7 2 8	5 4 5	7 2 7	7 2 8	7 2 7	7 2 7	6 6 1	males (cont...)	
	ANIMAL ID	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1		0 0 1
		5 1	5 2	5 3	5 4	5 5	5 6	5 7	5 8	5 9	6 0	6 1	6 2	6 3	6 4	6 5	6 6	6 7	6 8	6 9	7 0	7 1	7 2	7 3	7 4		7 5

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																								
Hemorrhage																								
Hydrocephalus																								
Mineralization																								

1

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation														3								2		
Alveolar Epithelium, Hyperplasia		3		1	2					2				1								2	2	
Alveolus, Infiltration Cellular, Histocyte	1	1	1	1	1		1	1		1	1	1		1		1	1	1	1	1	1	1		1
Vein, Inflammation																					2			
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lateral Wall, Inflammation		3		1										1							1		1	
Nasolacrimal Duct, Inflammation	2								3											2				
Nasopharyngeal Duct, Inflammation																								
Respiratory Epithelium, Hyperplasia		1				1	1			1	1	1		1	1	1			1			1	1	1
Septum, Inflammation		2		1			1							1						2	1		2	
Turbinate, Inflammation		2	1				1							1						2	1		1	1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation						2																		

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Lab: BAT

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
 Time Report Reqsted: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST	7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7
		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	2
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7
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
80 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation													1														1 1.0	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Parasite Metazoan																											1	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Parasite Metazoan					X	X											X								X		10	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis																											1 2.0	
Basophilic Focus	1	1		1	1			1					1	1		1	1	1		1	1	1		1			30 1.0	
Clear Cell Focus	X			X	X			X								X	X			X					X			16
Degeneration, Cystic	2				2				2			3																5 2.0
Eosinophilic Focus				X										X							X	X		X				13
Fatty Change, Focal				1																								5 1.0
Fatty Change, Diffuse		3									2	2				2	2											9 1.7
Hematopoietic Cell Proliferation			3													1						1						5 1.4

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TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7	
DAY ON TEST		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	2	
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7	
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	
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	
80 MG/KG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
		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	
		* TOTALS																									
Hepatodiaphragmatic Nodule													X	X	X											6	
Hyperplasia, Granulocytic				2																						1 2.0	
Inflammation		2	1		2	2			1	1	2	1		2	1		1	2	1		2	1	2		1	37 1.4	
Mixed Cell Focus					X				X												X				X	7	
Necrosis										1		1				1				2				2		6 1.5	
Vacuolization Cytoplasmic, Diffuse																3										1 3.0	
Bile Duct, Hyperplasia		2	2		1	2	3	2	1	2	1	3	3	2	2	2	1	1	2		2	2	2	2	2	2	44 1.9
Centrilobular, Degeneration							1						2			2				2					2	6 1.8	
Oval Cell, Hyperplasia							2	1		1			2										1		1	12 1.3	
Mesentery							+		+					+					+		+					10	
Fat, Necrosis							3		3					3					3		2					10 2.9	
Oral Mucosa		+	+		+							+		+					+		+	+	+	+	+	20	
Gingival, Hyperplasia, Squamous		2	1		2							1		1					3		2	2	1	1	1	20 1.5	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Mononuclear Cell						X															X			X		3	
Inflammation, Chronic Active			2		1		2	2	1		1	2	2	1		1			1		1	1			2	27 1.5	
Acinus, Atrophy			2				3	2	2		1		2	2		2		1	1		1	2			3	24 1.8	
Acinus, Hyperplasia		2																			2					2 2.0	
Duct, Cyst																										1 2.0	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Edema											2													2		2 2.0	
Erosion			2																							1 2.0	
Hyperplasia, Squamous			2								2															2 2.0	
Inflammation			2								2													2		3 2.0	

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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

	DAY ON TEST	7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7
		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	2
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7
FISCHER 344 RATS MALE 80 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

Ulcer	3												3												2 3.0	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Erosion																								2	1 2.0	
Inflammation																								2	1 2.0	
Tooth	+	+		+		+				+	+		+	+					+	+	+	+	+		25	
Peridontal Tissue, Inflammation	3	1		3		1				2	1		1	2					1	1	2	1	1		25	1.6

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy	2	2		2	1	3	1	1	2	3	2	2	1	1	2	2	1	2	1	2	1	1	1	1		45 1.5
Thrombosis																										1 1.0
Endocardium, Hyperplasia																										1 2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis														1			1				2					11 1.5
Degeneration, Cystic																										1 2.0
Hyperplasia					1	2																2		2	2	13 1.8
Hypertrophy						2													2		2					7 2.3
Infiltration Cellular, Mononuclear Cell					X											X					X					9
Vacuolization Cytoplasmic		1	2			1	2		1				1	2				1	2	1	1	2	1	1		29 1.4

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		7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7
DAY ON TEST		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	2
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7
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
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
80 MG/KG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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Route: GAVAGE
Species/Strain: RATS/F 344

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		7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7	
DAY ON TEST		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	7	
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7	
FISCHER 344 RATS MALE 80 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	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	1	1	1	1	1	2	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
		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	
		* TOTALS																									
Inflammation		2		2		2	2	1	2	2	2		2	2	2	2	2	3	2	1	1	2	2	2	2	46	2.0
Duct, Ectasia									2		2						1									4	1.8
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation		2	3					2			1			1	1		1			2	1	1	1	1		30	1.6
Epithelium, Degeneration																										1	2.0
Epithelium, Hyperplasia		1				1																				5	1.8
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Artery, Inflammation, Chronic Active										2																1	2.0
Germinal Epithelium, Atrophy																			4							1	4.0
Interstitial Cell, Hyperplasia		2																								1	2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy		3								2	2															3
Hyperplasia			4		2	4	3	2					3	2	2	3		2	3				3	3	3	29
Lymph Node		+	+				+													+						5
Deep Cervical, Ectasia		2																		2						3
Deep Cervical, Hyperplasia							2																			1
Deep Cervical, Hyperplasia, Plasma Cell		2																								1
Lymph Node, Mandibular	M	M	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	3
Ectasia																										1

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+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7	
DAY ON TEST		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	2	
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7	
FISCHER 344 RATS MALE 80 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	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	1	1	1	1	1	2	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
		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	* TOTALS

Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	5 2.2
Hyperplasia, Histiocytic										2						3											1 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	43 1.2
Hematopoietic Cell Proliferation	1	1	1	1	1				1	1	1	1		1	1	2	1	1	1			1	3	2	1	1	1 2.0
Hyperplasia, Granulocytic																											1 4.0
Hyperplasia, Focal														4													1 3.0
Pigmentation	1	2		1	1				1		2	1		1	1		1	1		3	1			2			34 1.1
Capsule, Fibrosis																3											1 3.0
Capsule, Hemorrhage																3											1 3.0
Lymphoid Follicle, Atrophy											3																1 3.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	48	42 3.1
Atrophy	3	3		2	2	4	3	3	4	3	3		3	2	4	3		3		3	3	2	4	3	3		

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	3 1.3
Cyst																											3 1.7
Hyperplasia																								2			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Hyperplasia, Granulocytic																											

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+ .. Tissue examined microscopically

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Page 67

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST	7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7
		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	2
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7
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
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
80 MG/KG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Edema						2																					1 2.0
Hemorrhage																						2					1 2.0
Hydrocephalus		2																									1 2.0
Mineralization																											1 1.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation														1													3 2.0
Alveolar Epithelium, Hyperplasia	2					2			2					2	1	3		2			3				1		16 1.9
Alveolus, Infiltration Cellular, Histocyte	1			1	1				1	1	1	1		1			1					1			1		31 1.0
Vein, Inflammation																											1 2.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lateral Wall, Inflammation	2			1					1		1			1						2							11 1.4
Nasolacrimal Duct, Inflammation						2								2													5 2.2
Nasopharyngeal Duct, Inflammation									2																		1 2.0
Respiratory Epithelium, Hyperplasia			1		1				1		1			1				1	1		1	1			1	1	24 1.0
Septum, Inflammation			1	1					1	1	2			1			2	1		2	1						17 1.4
Turbinate, Inflammation	2		1	2						1	2			1						2							16 1.4
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																1											2 1.5

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TDMS No. 88123 - 05
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Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

FISCHER 344 RATS MALE 80 MG/KG	DAY ON TEST	7	6	5	7	7	6	6	7	6	5	5	6	7	7	5	7	7	6	7	4	7	7	5	7	7
		2	2	8	2	2	8	4	2	9	9	9	6	2	2	7	2	2	5	2	9	2	2	9	2	2
		7	9	7	7	7	2	3	7	3	8	0	5	8	8	7	7	8	7	7	6	8	7	3	8	7
	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	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	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lens, Degeneration	3									4																5 3.2
Retina, Atrophy	4																									3 3.7
Retina, Degeneration										4		2							4							4 3.3
Sclera, Mineralization				2						2		2	1			2	2					2				22 1.8
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation	1										1	2	1				1							1		10 1.1
Zymbal's Gland																										1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accumulation, Hyaline Droplet			4																						1 4.0	
Mineralization	1	1	1	1	1	1	1	1		1	1		1		1		1	1	1	1				1	1	44 1.0
Nephropathy	2	2		2	1	1	2	1	2	4	2	2	2	2	2	2	2	1		1	3	1	2	2	2	47 1.8
Pigmentation												2														4 1.8
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

*** END OF MALE DATA ***

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST	6	7	7	7	7	7	4	7	6	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7
		5	3	3	3	3	3	0	3	7	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3	3
		4	0	0	1	1	0	2	0	6	1	2	2	2	1	1	2	5	1	0	1	2	2	0	0	0	0
FISCHER 344 RATS FEMALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	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
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		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	5
		females (cont...)																									

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																		1	1			3				
Basophilic Focus		3	1	2	1	2		2	1	1	3	2	1	2	2	2		2	1	1	1	2	1	2	3	
Clear Cell Focus								X		X										X					X	
Eosinophilic Focus					X								X			X						X	X	X		
Fatty Change, Focal		1			1					1												1			1	
Fatty Change, Diffuse									1								2									
Hematopoietic Cell Proliferation																						1	1		1	
Hepatodiaphragmatic Nodule													X			X										
Inflammation		1		1	1	1		1		1	2	2	1	2	1	1		1	1	2	1	1	1	1	1	1
Mixed Cell Focus		X				X	X	X			X					X		X	X	X						X

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TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
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 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST	6	7	7	7	7	7	4	7	6	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7
		5	3	3	3	3	3	0	3	7	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3
		4	0	0	1	1	0	2	0	6	1	2	2	2	1	1	2	5	1	0	1	2	2	0	0	0
FISCHER 344 RATS FEMALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		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
Necrosis						1						1														
Bile Duct, Hyperplasia			1						1	2		1		1		1	1	2	1	1				2	1	1
Centrilobular, Degeneration		3		2						2								3								
Oval Cell, Hyperplasia						1			2	1							1							1		
Mesentery														+	+		+		+	+		+		+		
Fat, Necrosis														3	3		3		3	3		3		3		
Oral Mucosa					+										+				+					+	+	
Gingival, Hyperplasia, Squamous					1										1				1					1	1	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus						1																				
Infiltration Cellular, Mononuclear Cell				X		X						X		X												
Inflammation, Chronic Active					1		1				1							1				1				
Acinus, Atrophy					2		2																			
Acinus, Hyperplasia															3											
Duct, Cyst											2														1	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																										
Ulcer																										
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Glands, Cyst																										
Tooth			+	+	+			+				+		+	+			+						+	+	

females
(cont...)

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		5	3	3	3	3	3	0	3	7	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3
		4	0	0	1	1	0	2	0	6	1	2	2	2	1	1	2	5	1	0	1	2	2	0	0	0
FISCHER 344 RATS FEMALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		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

females
(cont...)

Peridental Tissue, Inflammation	1	1	1				1				2		1	1			2						1	1
---------------------------------	---	---	---	--	--	--	---	--	--	--	---	--	---	---	--	--	---	--	--	--	--	--	---	---

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1	1	1	1	1	1		1	2	1	1	1	2	1		1		1	1	1	1	2	2	1	1
Inflammation																						2			
Thrombosis									2																

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis		2	2	2	1	1		2	1	2	2	2	1	2	1	1		1	1	1	2	2		1	1
Degeneration, Cystic										2						2									
Hyperplasia								2	2				1		1	2		2			1	1	1	2	
Hypertrophy						2			2					2			1	2				1			
Infiltration Cellular, Mononuclear Cell		X																							X
Vacuolization Cytoplasmic								1	2	1	1	1	1	2	2	1	2	1	1			1	2	1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia						3																	3		
Infiltration Cellular, Mononuclear Cell																						X			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. 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

Date Report Requested: 12/05/2005
Time Report Requested: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

FISCHER 344 RATS FEMALE 0 MG/KG	DAY ON TEST	6	7	7	7	7	7	4	7	6	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7
		5	3	3	3	3	3	0	3	7	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3
		4	0	0	1	1	0	2	0	6	1	2	2	2	1	1	2	5	1	0	1	2	2	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	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
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		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
		females (cont...)																								

Cyst
Endometrium, Hyperplasia, Cystic

4 4 4 4 2 1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Hyperplasia	3		2				3		3							3				2					
Hyperplasia, Histiocytic																									
Inflammation, Granulomatous																3									
Myelofibrosis																									
Lymph Node																+									
Hyperplasia, Lymphoid																									
Deep Cervical, Ectasia																									
Mediastinal, Ectasia																3									
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Ectasia																									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																									
Hyperplasia, Lymphoid																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation		2		2	2	1	3	1		1	1	1	1	1	1	2		1	1	1	1	2	1	1	1
Pigmentation		1		1	2	1	1	2		2	1	1	2	2	1	2		1	2	1	1	1	1	1	1
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+

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+ .. Tissue examined microscopically

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I .. Insufficient tissue

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2) Mild 4) Marked

Page 74

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		6	7	7	7	7	7	4	7	6	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7		
		5	3	3	3	3	3	0	3	7	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3		
		4	0	0	1	1	0	2	0	6	1	2	2	2	1	1	2	5	1	0	1	2	2	0	0		
FISCHER 344 RATS FEMALE ANIMAL ID 0 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	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		
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2		
		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	females (cont...)

Atrophy	3	3	3	3	2	3	3	3	4	3	3	3	4	3	2	3		2	3	2	3		3	2	3
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	---	---	---	---	--	---	---	---

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst				3	1			1		1	3	1	3				1			3		2				
Hyperplasia		2				1		1			1	1	2		2								2			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteopetrosis																										
.....																										
Skeletal Muscle																										

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization															1										

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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2) Mild 4) Marked

Page 75

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		6	7	7	7	7	7	4	7	6	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7													
DAY ON TEST		5	3	3	3	3	3	0	3	7	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3	3													
		4	0	0	1	1	0	2	0	6	1	2	2	2	1	1	2	5	1	0	1	2	2	0	0	0													
FISCHER 344 RATS FEMALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
		0	0	0	0	0	0	0	0	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													
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2													
		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													
		females (cont...)																																					
Inflammation										2									2																				
Metaplasia, Squamous										1																													
Alveolar Epithelium, Hyperplasia										1									2																				
Alveolus, Infiltration Cellular, Histiocyte		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1													
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													
Glands, Cyst																																							
Lateral Wall, Inflammation													1												1														
Nasolacrimal Duct, Inflammation													2		2																								
Respiratory Epithelium, Hyperplasia		1	1			1	1	1	1	1		1	1	1	1	1	1			1	1	1	1	2	1	1													
Septum, Inflammation													1	1												1	2		1										
Turbinate, Inflammation		1				1								1	1		1	1	1			1	2			1	1												
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													
Inflammation		1																								1									1				

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sclera, Mineralization													2						2					1		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	1					1							1		1	1	1		1		1		2			

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet																										

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+ .. Tissue examined microscopically

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Page 76

Date Report Requested: 12/05/2005
Time Report Requested: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

[illegible]

Page 77

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		7	7	7	7	6	6	7	7	7	7	7	6	7	7	7	7	4	7	4	7	7	7	7	6	
DAY ON TEST		3	3	3	3	7	5	0	3	3	3	3	3	3	3	3	3	7	2	7	3	3	3	3	9	
		2	0	1	0	3	9	3	0	2	1	2	7	2	1	0	0	6	4	8	0	1	0	1	1	4
FISCHER 344 RATS FEMALE 0 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
		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
		* TOTALS																								

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan								X		X	X														4
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis										2															4 1.8
Basophilic Focus	2	2	2	4	3	1		2	2	3	3	3	3	2	3	3		3	1	2	3	3	2	1	44 2.1
Clear Cell Focus			X												X						X				7
Eosinophilic Focus					X			X							X		X								10
Fatty Change, Focal				1							1						1		1	1	1	1			12 1.0
Fatty Change, Diffuse	2						2										2						2	1	7 1.7
Hematopoietic Cell Proliferation																						1			4 1.0
Hepatodiaphragmatic Nodule		X																							3
Inflammation			1	3		1		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2		39 1.2
Mixed Cell Focus			X					X		X	X			X	X			X	X	X					19

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TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST	7	7	7	7	6	6	7	7	7	7	7	6	7	7	7	7	4	7	4	7	7	7	7	6
		3	3	3	3	7	5	0	3	3	3	3	3	3	3	3	3	7	2	7	3	3	3	3	9
		2	0	1	0	3	9	3	0	2	1	2	7	2	1	0	0	6	4	8	0	1	0	1	4
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		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	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
		* TOTALS																							
Necrosis		1																							3 1.0
Bile Duct, Hyperplasia		1	2	1			1	2	1	1		1					1		1		1		2	1	27 1.2
Centrilobular, Degeneration		2	2																				3	3	8 2.5
Oval Cell, Hyperplasia		2	2		1			2			1								1				2	2	13 1.5
Mesentery																									18
Fat, Necrosis		3					3			3	3	3				3		3		3		3	3		17 3.0
Oral Mucosa																									15
Gingival, Hyperplasia, Squamous		2		2					1	1						1		1			1		2	1	14 1.2
Pancreas																									50
Basophilic Focus																									1 1.0
Infiltration Cellular, Mononuclear Cell		X								X					X				X		X				9
Inflammation, Chronic Active			1			1										1									8 1.0
Acinus, Atrophy			1			2				1						2	1								7 1.6
Acinus, Hyperplasia																									1 3.0
Duct, Cyst			1																						3 1.3
Salivary Glands																									50
Stomach, Forestomach																									50
Inflammation																									1 3.0
Ulcer																									1 3.0
Stomach, Glandular																									50
Glands, Cyst		1																					1		2 1.0
Tooth																									19

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 + .. Tissue examined microscopically
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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

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Lab: BAT

FISCHER 344 RATS FEMALE 0 MG/KG	DAY ON TEST	7	7	7	7	6	6	7	7	7	7	7	6	7	7	7	7	4	7	4	7	7	7	7	6
		3	3	3	3	7	5	0	3	3	3	3	3	3	3	3	3	7	2	7	3	3	3	3	9
		2	0	1	0	3	9	3	0	2	1	2	7	2	1	0	0	6	4	8	0	1	0	1	4
	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	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	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
		* TOTALS																							
Peridental Tissue, Inflammation		1	2					1	2						1	1			1			1	1		19 1.2

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy		1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	1		1	1	1	1	1	1	44 1.2
Inflammation																									1 2.0
Thrombosis																									1 2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis		1	2	2	2	1		2	1	2	1		1	1	2	2		1	1	2	2	2			39 1.5
Degeneration, Cystic					1				2														3		5 2.0
Hyperplasia	2	2	2	2	3			1		1			2			2					2				20 1.7
Hypertrophy		2		2							2								2		2				11 1.8
Infiltration Cellular, Mononuclear Cell																									2
Vacuolization Cytoplasmic	2	2	1	2		1		1		1	1				1	1	2			1	2	2		1	30 1.4
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																							3		3 3.0
Infiltration Cellular, Mononuclear Cell													X									X			3
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	46

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Page 80

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7 3 2	7 3 0	7 3 1	7 3 0	6 7 3	6 5 9	7 0 3	7 3 0	7 3 2	7 3 1	7 3 2	6 3 7	7 3 2	7 3 1	7 3 0	7 3 0	4 7 6	7 2 4	4 7 8	7 3 0	7 3 1	7 3 0	7 3 1	7 3 1	6 9 4			
FISCHER 344 RATS FEMALE 0 MG/KG		ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				0	0	0	0	0	0	0	0	0	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	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5
				6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	9	0

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis	3				1	2	3	3	2	2	1	1	2		2	2		3	3	2		3	4	1	2	36 2.0
Cyst			1	2									2	1												9 1.8
Pars Distalis, Cyst																2										1 2.0
Pars Distalis, Hyperplasia		2	3	3						3	2	2		2		2							2			24 2.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia	2					2	1		1	1		1	1	4		1			2					2		24 1.3
Follicle, Cyst																1										1 1.0
Follicular Cell, Hyperplasia																		1								2 1.0

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																										1 3.0
Hyperplasia					2									3												5 2.4
Inflammation	1	3	1	1	1	2		1	1		1	1	1	2	1	1		1	1	1	1	1		2		36 1.3
Duct, Cyst		3		2	2	1	2					1						1			2					11 1.9
Ovary	+	+	+	+	+	+	+	+	+	+	3	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst											3						2						3			9 2.1
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenomyosis																										1 1.0

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

+ .. Tissue examined microscopically

x .. Lesion present

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Page 81

4) Marked

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	7	7	7	6	6	7	7	7	7	6	7	7	7	7	4	7	4	7	7	7	7	7	6		
		3	3	3	3	7	5	0	3	3	3	3	3	3	3	3	3	7	2	7	3	3	3	3	9		
		2	0	1	0	3	9	3	0	2	1	2	7	2	1	0	0	6	4	8	0	1	0	1	1	4	
FISCHER 344 RATS FEMALE 0 MG/KG ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5		
		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	* TOTALS

Atrophy	3	2	2	3	2	4	3	3	2	3	4	3	2	3	2	3	3	3	2	3	3	2			45	2.8
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	----	-----

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cyst		2		2			2		3		3		3	2	2			2	3		3	3		3		24	2.2
Hyperplasia				1		2		2	3				2				1						1			15	1.6
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation																						3				1	3.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Osteopetrosis																								3	1 3.0		
Skeletal Muscle																								+	1		

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization																									1	1.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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2) Mild 4) Marked

Page 83

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		7	7	7	7	6	6	7	7	7	7	7	6	7	7	7	7	4	7	4	7	7	7	7	6
DAY ON TEST		3	3	3	3	7	5	0	3	3	3	3	3	3	3	3	3	7	2	7	3	3	3	3	9
		2	0	1	0	3	9	3	0	2	1	2	7	2	1	0	0	6	4	8	0	1	0	1	4
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 MG/KG		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	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
																									* TOTALS
Infarct		3																							3 3.3
Inflammation																									2 2.0
Mineralization		1	1	1	1	1	1		1	1	1		1	1	1	1		1	1	1	1	1	1	1	43 1.0
Nephropathy		1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1		1	1	1	1		44 1.0
Pigmentation		1																							3 1.7
Transitional Epithelium, Hyperplasia		2																							4 2.0
Urinary Bladder																									
Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1.0

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

DAY ON TEST		7	3	5	4	7	7	7	7	7	3	5	5	7	6	7	5	7	7	7	7	5	6	7	7		
		3	5	4	6	3	3	3	3	3	9	2	3	3	3	3	0	3	3	3	3	8	4	3	3		
		0	3	5	9	1	0	2	2	1	5	8	4	1	0	2	5	1	2	2	0	2	3	4	2	1	
FISCHER 344 RATS FEMALE 20 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	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		
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
		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	females (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Erosion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	X	+	+	+	+	+	+	+	+	X	+	+	+	+	X	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																				1					
Basophilic Focus	3	1	1		2	3	3	2	2	1	1	1	1	2	2	1	1	3	2	4	2	2	1	2	2
Clear Cell Focus					X		X	X									X								
Eosinophilic Focus							X								X		X							X	
Fatty Change, Focal														1					1	1			1		X
Fatty Change, Diffuse											1														
Hematopoietic Cell Proliferation										1				1								1			
Hepatodiaphragmatic Nodule										X						X		X	X						
Inflammation	2	1	1		1	1	2	1	1	1				1	1	2	2	1	2	1	1	1	1	1	2

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

+ .. Tissue examined microscopically

x .. Lesion present

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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. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

	DAY ON TEST																							
	7	3	5	4	7	7	7	7	7	3	5	5	7	6	7	5	7	7	7	7	5	6	7	7
	3	5	4	6	3	3	3	3	3	9	2	3	3	3	3	0	3	3	3	3	8	4	3	3
	0	3	5	9	1	0	2	2	1	5	8	4	1	0	2	5	1	2	2	0	2	3	4	2
FISCHER 344 RATS FEMALE 20 MG/KG	ANIMAL ID																							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
Mixed Cell Focus							X	X	X					X					X		X	X	X	
Necrosis																								
Vacuolization Cytoplasmic, Focal						1																		
Bile Duct, Cyst																								
Bile Duct, Hyperplasia	1		1				1	1	1			2	3				1	2		1	1			
Centrilobular, Degeneration							1				2	1												
Oval Cell, Hyperplasia	1											1	3					1	1	1				
Serosa, Inflammation																								
Mesentery				+					+		+					+	+						+	
Fat, Necrosis				3					3		3					3	3						3	
Oral Mucosa	+								+					+		+								
Gingival, Hyperplasia, Squamous	2								1					1		1								
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus	2																							
Infiltration Cellular, Mononuclear Cell																				X				
Inflammation, Chronic Active						1	2															2	1	
Vacuolization Cytoplasmic																								
Acinus, Atrophy						1	2																	
Duct, Cyst																		3					1	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation							1																	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																						2		
Hyperplasia, Squamous						2																		
Inflammation																						2		

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Page 87

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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Lab: BAT

DAY ON TEST		7	3	5	4	7	7	7	7	7	3	5	5	7	6	7	5	7	7	7	7	7	5	6	7	7	
		3	5	4	6	3	3	3	3	3	9	2	3	3	3	3	0	3	3	3	3	3	8	4	3	3	
		0	3	5	9	1	0	2	2	1	5	8	4	1	0	2	5	1	2	2	0	2	3	4	2	1	
FISCHER 344 RATS FEMALE 20 MG/KG ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	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	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
		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	
		females (cont...)																									

Ulcer	3																							
Stomach, Glandular Glands, Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth Peridontal Tissue, Inflammation	+									+						+		+						
	1									1						1		2						

CARDIOVASCULAR SYSTEM

Blood Vessel Aorta, Inflammation, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																							3	+
Heart Angiectasis Cardiomyopathy Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	1	1	2	1	1		1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	2				1	2	2	1	1				1	1	2	1	1	1	1	1		1	1	2
Degeneration, Cystic					1								2				3			2			2	
Hyperplasia	1						2		1				2	2			1					2	1	
Hypertrophy					2			1					2		2			1			2			
Vacuolization Cytoplasmic								1					1			1				1	2		2	
.....																								
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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2) Mild 4) Marked

Page 88

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

FISCHER 344 RATS FEMALE 20 MG/KG	DAY ON TEST	7 3 0	3 5 3	5 4 5	4 6 9	7 3 1	7 3 0	7 3 2	7 3 2	7 3 1	3 9 5	5 2 8	5 3 4	7 3 1	6 3 0	7 3 2	5 0 5	7 3 1	7 3 2	7 3 2	7 3 0	5 8 3	6 4 4	7 3 2	7 3 1
	ANIMAL ID	0 0 2 5 1	0 0 2 5 2	0 0 2 5 3	0 0 2 5 4	0 0 2 5 5	0 0 2 5 6	0 0 2 5 7	0 0 2 5 8	0 0 2 5 9	0 0 2 6 0	0 0 2 6 1	0 0 2 6 2	0 0 2 6 3	0 0 2 6 4	0 0 2 6 5	0 0 2 6 6	0 0 2 6 7	0 0 2 6 8	0 0 2 6 9	0 0 2 7 0	0 0 2 7 1	0 0 2 7 2	0 0 2 7 3	0 0 2 7 4
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		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
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
		females (cont...)																							
Hyperplasia		2																							
Islets, Pancreatic		+ +																							
Parathyroid Gland		+ M +																							
Pituitary Gland		+ +																							
Angiectasis		2		3		2				2					1	2			2	2		2		3	3
Cyst									2			1											1		
Hemorrhage					2																				
Pars Distalis, Hyperplasia		3		2			2	2	2		1		2						2			1			
Thyroid Gland		+ +																							
C-cell, Hyperplasia						1			3	1		1	1		1			4			3			3	

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+ +
Hyperplasia	1 1
Inflammation	1 1
Duct, Cyst	2 2
Ovary	+ +

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Page 89

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

	DAY ON TEST	7	3	5	4	7	7	7	7	7	3	5	5	7	6	7	5	7	7	7	7	7	5	6	7	7
		3	5	4	6	3	3	3	3	3	9	2	3	3	3	3	0	3	3	3	3	3	8	4	3	3
		0	3	5	9	1	0	2	2	1	5	8	4	1	0	2	5	1	2	2	0	2	3	4	2	1
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		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
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
		females (cont...)																								

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage				2																					
Inflammation													1												
Endometrium, Hyperplasia, Cystic																	4			4					
Vagina													+												
Inflammation													1												

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								2	
Hyperplasia				3				2		3	3		3	2		2						3			
Myelofibrosis																									
Lymph Node											+	+		+	+										
Deep Cervical, Ectasia																2									
Deep Cervical, Hyperplasia, Plasma Cell																2									
Mediastinal, Hyperplasia, Lymphoid																3									
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia											2														
Hyperplasia, Lymphoid																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation			2		1	1	1	1	1	3				2	1	2	1		1	1	1	2	1		1
Pigmentation	1	2	3		2	1	1	2	2					1	2	1	1		2	2	1	1	3	1	2

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

+ .. Tissue examined microscopically

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Page 90

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	3	5	4	7	7	7	7	7	3	5	5	7	6	7	5	7	7	7	7	5	6	7	7
		3	5	4	6	3	3	3	3	3	9	2	3	3	3	3	0	3	3	3	3	8	4	3	3
		0	3	5	9	1	0	2	2	1	5	8	4	1	0	2	5	1	2	2	0	2	3	4	2
FISCHER 344 RATS FEMALE 20 MG/KG ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
		females (cont...)																							

Thymus	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	M	+	+	+	+	+	+	+	+
Atrophy	4	2	2		3	3	3	4	3	2	3		3	3		2		4		3	3	4	4	2	3
Pigmentation																									

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst									3			2			3			3					3	1		
Hyperplasia							1												1							
Hyperplasia, Atypical																										
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous																										
Inflammation																										
Ulcer																										

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Osteopetrosis																									

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage				3																					

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	3	5	4	7	7	7	7	7	3	5	5	7	6	7	5	7	7	7	7	7	5	6	7	7
		3	5	4	6	3	3	3	3	3	9	2	3	3	3	3	0	3	3	3	3	3	8	4	3	3
		0	3	5	9	1	0	2	2	1	5	8	4	1	0	2	5	1	2	2	0	2	3	4	2	1
FISCHER 344 RATS FEMALE ANIMAL ID 20 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
		females (cont...)																								

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Alveolar Epithelium, Hyperplasia	1								2						1		2				1				
Alveolus, Infiltration Cellular, Histiocyte	1		1		1	1	1	1	1	1				1	1	1	1	1	1	1	1	1	1	1	1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lateral Wall, Inflammation																									
Nasolacrimal Duct, Inflammation																							2		1
Nasopharyngeal Duct, Inflammation					2																				
Respiratory Epithelium, Hyperplasia	1	1	1		1	1			1				1	1	1		2			1	1			1	1
Septum, Inflammation								1									2			1					
Turbinate, Inflammation						1											1			1					1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation					1												1								

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Inflammation																									
Lens, Degeneration																							3		
Retina, Atrophy																									
Retina, Degeneration																							3		
Sclera, Mineralization									1																

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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2) Mild 4) Marked

Page 92

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7	3	5	4	7	7	7	7	7	3	5	5	7	6	7	5	7	7	7	7	5	6	7	7	
DAY ON TEST		3	5	4	6	3	3	3	3	3	9	2	3	3	3	3	0	3	3	3	3	8	4	3	3	
		0	3	5	9	1	0	2	2	1	5	8	4	1	0	2	5	1	2	2	0	2	3	4	2	1
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
20 MG/KG		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		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
		females (cont...)																								
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration									2																	
Infiltration Cellular, Mononuclear Cell															X											
Inflammation		1								1	2							2		1			1		1	
URINARY SYSTEM																										
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell										X																
Mineralization		1				1	1	1	1	1	1		1		1		1		1	1	1	1	1	1	1	
Nephropathy		1	1	1		1	1	1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	
Pigmentation												1	2									1				
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation															1											

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

FISCHER 344 RATS FEMALE 20 MG/KG	DAY ON TEST	7 3 1	7 3 2	6 4 7	7 3 1	7 3 1	7 3 1	7 3 0	7 1 4	7 3 0	7 3 0	6 9 4	7 3 0	7 3 2	4 4 9	7 1 0	7 3 0	5 5 4	6 8 0	7 3 0	7 0 8	7 3 0	7 3 1	6 5 1	6 1 8
	ANIMAL ID	0 0 2 7 6	0 0 2 7 7	0 0 2 7 8	0 0 2 7 9	0 0 2 8 0	0 0 2 8 1	0 0 2 8 2	0 0 2 8 3	0 0 2 8 4	0 0 2 8 5	0 0 2 8 6	0 0 2 8 7	0 0 2 8 8	0 0 2 9 0	0 0 2 9 1	0 0 2 9 2	0 0 2 9 3	0 0 2 9 4	0 0 2 9 5	0 0 2 9 6	0 0 2 9 7	0 0 2 9 8	0 0 2 9 9	0 0 3 9 0
																									* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum Erosion	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+	49 1 2.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	X	X	+	+	+	X	+	+	50 7
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																									1 1.0
Basophilic Focus	2	3		2	2	2	2	2	3	3		1	3	1	3	3	2	1	3	1	1	2		2	46 2.0
Clear Cell Focus				X												X									6
Eosinophilic Focus				X	X												X								8
Fatty Change, Focal					2																1	2	1		8 1.3
Fatty Change, Diffuse												2	3					2					1		5 1.8
Hematopoietic Cell Proliferation																									3 1.0
Hepatodiaphragmatic Nodule			X																						7
Inflammation	1	1	2	1	2	2	3	2	1	1	1	2	1	1	1	1	1	2	1	1	2		1	3	45 1.4

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

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2) Mild 4) Marked

Page 94

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

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 Lab: BAT

		7	7	6	7	7	7	7	7	7	7	6	7	7	4	7	7	5	6	7	7	7	7	6	6	
DAY ON TEST		3	3	4	3	3	3	3	1	3	3	9	3	3	4	1	3	5	8	3	0	3	3	5	1	
		1	2	7	1	1	1	0	4	0	0	4	0	2	9	0	0	4	0	0	8	0	1	1	8	
FISCHER 344 RATS FEMALE		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		
20 MG/KG		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3		
		7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0		
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	* TOTALS
Mixed Cell Focus												X			X						X		X		12	
Necrosis				2																					1 2.0	
Vacuolization Cytoplasmic, Focal			1												1										3 1.0	
Bile Duct, Cyst																			1						1 1.0	
Bile Duct, Hyperplasia					1	1	1	1	1	1	2	2	1		2	1		1	1	1	1	1	1	1	28 1.3	
Centrilobular, Degeneration												2	2					1	1					2	7 1.6	
Oval Cell, Hyperplasia		1	1					1		1	2	1	2	1	1		1	1	1	1	1	1		2	22 1.2	
Serosa, Inflammation															2										1 2.0	
Mesentery		+		+		+			+	+					+						+		+	+	+	16
Fat, Necrosis		3		3		3			3	3					3						3		3	3	3	16 3.0
Oral Mucosa						+				+	+					+					+				9	
Gingival, Hyperplasia, Squamous					1					1	1				1						1				9 1.1	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basophilic Focus																									1 2.0	
Infiltration Cellular, Mononuclear Cell																									1	
Inflammation, Chronic Active		1							1	1		2	1					1	1				1		12 1.3	
Vacuolization Cytoplasmic													1												1 1.0	
Acinus, Atrophy									2			3	2		1		2	2					2		9 1.9	
Duct, Cyst		1																							3 1.7	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																									1 1.0	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Edema																			2						2 2.0	
Hyperplasia, Squamous																									1 2.0	
Inflammation																			1						2 1.5	

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Page 95

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First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7	7	6	7	7	7	7	7	7	7	6	7	7	4	7	7	5	6	7	7	7	7	6	6	
DAY ON TEST		3	3	4	3	3	3	1	3	3	3	9	3	3	4	1	3	5	8	3	0	3	3	5	1	
		1	2	7	1	1	1	0	4	0	0	1	4	0	2	9	0	0	4	0	0	8	0	1	1	8
FISCHER 344 RATS FEMALE 20 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	3	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
		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
		* TOTALS																								
Hyperplasia		2 2.0																								
Islets, Pancreatic		50																								
Parathyroid Gland		47																								
Pituitary Gland		50																								
Angiectasis		25 2.3																								
Cyst		10 1.6																								
Hemorrhage		1 2.0																								
Pars Distalis, Hyperplasia		21 1.9																								
Thyroid Gland		50																								
C-cell, Hyperplasia		24 1.6																								

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia	2				2														2						7 1.9
Inflammation	1	1	1	1	2	1	1		1	1	1	2	1	1	1	1	1	1	1	1	1		1	1	39 1.1
Duct, Cyst		2	1		2									2		2			2	2	2				14 1.9
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* .. 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

Page 97

TDMS No. 88123 - 05
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 Species/Strain: RATS/F 344

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		7	7	6	7	7	7	7	7	7	7	6	7	7	4	7	7	5	6	7	7	7	7	6		
DAY ON TEST		3	3	4	3	3	3	1	3	3	3	9	3	3	4	1	3	5	8	3	0	3	3	5	1	
		1	2	7	1	1	1	0	4	0	0	1	4	0	2	9	0	0	4	0	0	8	0	1	1	8
FISCHER 344 RATS FEMALE 20 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	3	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
		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
		* TOTALS																								

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																										1 2.0
Inflammation																										1 1.0
Endometrium, Hyperplasia, Cystic	4				4					1									1		2					7 2.9
Vagina																									2	
Inflammation																										1 1.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy			2																							2 2.0
Hyperplasia	3									3		3	3			3					3	3	3			16 2.8
Myelofibrosis																							2			1 2.0
Lymph Node				+																					5	
Deep Cervical, Ectasia				1																						2 1.5
Deep Cervical, Hyperplasia, Plasma Cell																										1 2.0
Mediastinal, Hyperplasia, Lymphoid																										1 3.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia																										1 2.0
Hyperplasia, Lymphoid										2																1 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation			1		1	1	1	1	1		1				2	1	1	1		1			1			32 1.2
Pigmentation	1	1	2	2	1	1	1	2	1		1			2	1	1	2	2		2	2	1	2		2	39 1.6

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DAY ON TEST		7	7	6	7	7	7	7	7	7	7	6	7	7	4	7	7	5	6	7	7	7	7	6	6	
		3	3	4	3	3	3	3	1	3	3	3	9	3	3	4	1	3	5	8	3	0	3	3	5	1
		1	2	7	1	1	1	0	4	0	0	1	4	0	2	9	0	0	4	0	0	8	0	1	1	8
.....																										
FISCHER 344 RATS FEMALE 20 MG/KG		ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	3
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Atrophy	3	2	4	3	3	2	3	3	3	3	3	4	4	3	3	2	4	3	3	4	3	4	4	4	44	3.1
Pigmentation												2													1	2.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst					3	1	2			3	1		3			1	1		2	1	3		1	3	19	2.1
Hyperplasia						1						2						2		1		1			7	1.3
Hyperplasia, Atypical					4																				1	4.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Squamous																3									1	3.0
Inflammation						2																			1	2.0
Ulcer						2																			1	2.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Osteopetrosis																							3		1	3.0

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemorrhage																								1	2 2.0

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		7 3 1	7 3 2	6 4 7	7 3 1	7 3 1	7 3 1	7 3 0	7 3 4	7 3 0	7 3 0	6 9 4	7 3 0	7 3 2	4 4 9	7 1 0	7 3 0	5 5 4	6 8 0	7 3 0	7 0 8	7 3 0	7 3 1	6 5 1	6 1 8		
FISCHER 344 RATS FEMALE 20 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	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	3		
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0		
		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	
																											* TOTALS

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration																										1 2.0
Infiltration Cellular, Mononuclear Cell																										1
Inflammation												1								1					1	11 1.2

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Mononuclear Cell																										1
Mineralization	1	1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	42 1.0
Nephropathy	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45 1.0
Pigmentation												2						2						2		6 1.7
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																										1 1.0

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		FISCHER 344 RATS FEMALE																									females (cont...)
		40 MG/KG																									
		ANIMAL ID																									
DAY ON TEST		7 3 1	7 3 2	7 3 2	7 3 0	7 0 1	7 3 1	7 3 2	7 3 0	7 3 0	7 3 0	7 3 0	6 3 6	7 3 1	7 3 1	6 8 2	7 3 2	6 5 9	7 3 2	7 3 1	7 3 1	7 3 2	7 0 8	7 3 1	7 3 2		
		0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 1 0	0 0 3 1 1	0 0 3 1 2	0 0 3 1 3	0 0 3 1 4	0 0 3 1 5	0 0 3 1 6	0 0 3 1 7	0 0 3 1 8	0 0 3 2 9	0 0 3 2 0	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4	0 0 3 2 5	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	X	X	+	+	+	+	+	+	+	+	X	X	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																		2							
Basophilic Focus	3	3	3		2	2	1			2	2	2	2	3	2		2	2	2	1	2	3	1	2	3
Clear Cell Focus				X	X																				
Eosinophilic Focus					X		X					X		X					X					X	
Fatty Change, Focal					2		1			1	3							3			1		1		
Fatty Change, Diffuse																2	2						3		
Hematopoietic Cell Proliferation																						1	1		
Hepatodiaphragmatic Nodule						X																			
Inflammation	2	2	2	2	1	2	1	1	2	1	1	1	2	2	1		1	1	1	1	2	1	1	1	

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		7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	6	7	6	7	7	7	7	7	7	7
DAY ON TEST		3	3	3	3	0	3	3	3	3	3	3	3	6	3	3	8	3	5	3	3	3	3	0	3	3
		1	2	2	0	1	1	2	0	0	0	0	0	6	1	1	2	2	9	2	1	1	2	8	1	2
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
40 MG/KG		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		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
Mixed Cell Focus								X			X	X	X	X	X			X				X				
Vacuolization Cytoplasmic, Focal																										
Vacuolization Cytoplasmic, Diffuse													1								1					
Bile Duct, Cyst																										
Bile Duct, Hyperplasia		1	1					1	1	1					1		1	1		1						
Centrilobular, Degeneration										2							2	2	2							
Oval Cell, Hyperplasia				1			1	1	1	1				1	1		1				1				1	
Mesentery								+					+		+				+		+				+	
Fat, Necrosis								3					3		3				3		3				3	
Oral Mucosa					+	+						+		+						+					+	
Gingival, Hyperplasia, Squamous					1	1						2		1						1					1	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell													X		X	X										
Inflammation, Chronic Active			2							1	1						2	1					1	2		
Acinus, Atrophy			2								2						2	1					2			
Artery, Inflammation, Chronic Active																										
Duct, Cyst			1																					2		
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Inflammation																										
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																			1							
Hyperplasia, Squamous																								3		
Inflammation																			2					3		
Ulcer																								3		

females (cont...)

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		7 3 1	7 3 2	7 3 2	7 3 0	7 3 1	7 3 1	7 3 2	7 3 0	7 3 0	7 3 0	7 3 0	6 6 6	7 3 1	7 3 1	6 8 2	7 3 2	6 5 9	7 3 2	7 3 1	7 3 1	7 3 2	7 3 0	7 3 1	7 3 2		
FISCHER 344 RATS FEMALE 40 MG/KG		0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 1 0	0 0 3 1 1	0 0 3 1 2	0 0 3 1 3	0 0 3 1 4	0 0 3 1 5	0 0 3 1 6	0 0 3 1 7	0 0 3 1 8	0 0 3 2 9	0 0 3 2 0	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 4 4	0 0 3 5 5	females (cont...)
ANIMAL ID																											
Adrenal Medulla Hyperplasia Infiltration Cellular, Mononuclear Cell		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland		+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	
Pituitary Gland Angiectasis Cyst Pars Distalis, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		3											2	1			2	2	3			4	2	3			
			1	2	1				2		1	1			2		1										
			2	3	2		1		2	2	2	2		3	2		4	3			3	2					
Thyroid Gland C-cell, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		1		4			1	1	1	1	1	3	1	1				1	1	1	1	1	1	1		2	

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia									2											2			1		
Inflammation	1	1	1	1	1	1	3	1	2	1	1		2	2	1		2	1	3	1	1	2	2	1	1
Duct, Cyst	2	2		2	2		2			2			1			2	2	2		2	2		2		
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst			2		3			3										2							

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Page 105

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7 3 1	7 3 2	7 3 2	7 3 0	7 3 1	7 3 2	7 3 0	7 3 0	7 3 0	7 3 0	7 3 0	6 6 6	7 3 1	7 3 1	6 8 2	7 3 2	6 5 9	7 3 2	7 3 1	7 3 1	7 3 2	7 3 0	7 3 1	7 3 3		
																											
		FISCHER 344 RATS FEMALE																									
ANIMAL ID 40 MG/KG		0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 1 0	0 0 3 1 1	0 0 3 1 2	0 0 3 1 3	0 0 3 1 4	0 0 3 1 5	0 0 3 1 6	0 0 3 1 7	0 0 3 1 8	0 0 3 2 9	0 0 3 2 0	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4	0 0 3 2 5	females (cont...)

females
(cont...)

Necrosis

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenomyosis																										
Cyst																										
Decidual Reaction																										
Inflammation																										
Endometrium, Hyperplasia, Cystic																										

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																	2								
Hyperplasia				1	3			4	3						2	3	4	4		2		2		2	
Lymph Node																									
Ectasia																+							+		
Mediastinal, Inflammation																							3		
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia					2	2																			
Hyperplasia, Histiocytic																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1		1	1	1	2	1	2			1		1	2	1	1	3	2	2
Hyperplasia, Lymphoid, Focal																									
Pigmentation	2	1	2	2	2	2	2			1	1	2	1	1			1	2	2	2	1	1	2	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
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Page 106

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7 3 1	7 3 2	7 3 2	7 3 0	7 3 1	7 3 1	7 3 2	7 3 0	7 3 0	7 3 0	7 3 0	6 6 6	7 3 1	7 3 1	6 8 2	7 3 2	6 5 9	7 3 2	7 3 1	7 3 1	7 3 2	7 0 8	7 3 1	7 3 2	
DAY ON TEST																										
FISCHER 344 RATS FEMALE		0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 1 0	0 0 3 1 1	0 0 3 1 2	0 0 3 1 3	0 0 3 1 4	0 0 3 1 5	0 0 3 1 6	0 0 3 1 7	0 0 3 1 8	0 0 3 2 9	0 0 3 2 0	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4	0 0 3 2 5
ANIMAL ID																										
40 MG/KG																										
		females (cont...)																								
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	
Atrophy		3	3	3	3	3	2	3	3	2	3	3	4	4	3	3		4	4	3	2	3		3	2	3
INTEGUMENTARY SYSTEM																										
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst		4								1	1	1	1	1			1		3		1		1		3	3
Hyperplasia																								1	1	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																										
MUSCULOSKELETAL SYSTEM																										
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																										
Cyst																										
NERVOUS SYSTEM																										
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gliosis																										
Hemorrhage																				2						

* .. 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

Page 107

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7 3 1	7 3 2	7 3 2	7 3 0	7 3 1	7 3 1	7 3 2	7 3 0	7 3 0	7 3 0	7 3 0	6 6 6	7 3 1	7 3 1	6 8 2	7 3 2	6 5 9	7 3 2	7 3 1	7 3 1	7 3 2	7 0 8	7 3 1	7 3 2
DAY ON TEST																									
FISCHER 344 RATS FEMALE		0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 1 0	0 0 3 1 1	0 0 3 1 2	0 0 3 1 3	0 0 3 1 4	0 0 3 1 5	0 0 3 1 6	0 0 3 1 7	0 0 3 1 8	0 0 3 2 9	0 0 3 2 0	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4
ANIMAL ID																									
40 MG/KG																									

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			2																		1			
Metaplasia, Squamous													1											
Alveolar Epithelium, Hyperplasia		3	2		1				2		3	2	2										1	
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		1	1
Serosa, Fibrosis						1																		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lateral Wall, Inflammation																2								
Nasolacrimal Duct, Inflammation			2									1												
Nerve, Degeneration																								
Olfactory Epithelium, Metaplasia								2																
Respiratory Epithelium, Hyperplasia	1		1							1	1		1		1				1	1	1	1		1
Septum, Inflammation			1					2								2	1						1	
Turbinate, Inflammation								2		1					1	2			1					
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation						1				1														

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation																								
Iris, Inflammation																								
Lens, Degeneration																								
Retina, Atrophy																								

Date Report Requested: 12/05/2005
Time Report Requested: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

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

Page 109

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

DAY ON TEST		4	6	6	7	7	7	7	2	7	7	6	7	7	5	7	7	7	7	5	6	5	7	7	7		
		6	5	5	3	3	3	3	1	3	0	5	3	3	9	3	3	3	3	2	0	6	0	3	3		
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	2	0	6	4	2	8	0	2	
FISCHER 344 RATS FEMALE 40 MG/KG ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5		
		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	* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Intestine Large, Cecum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	1.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	7	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis													3				1		1									4	1.8
Basophilic Focus		1	1	2	3	3	3	3	1	3	2	3	2	3	1	3	2	3	3	2	2	1	2	2	1			47	2.1
Clear Cell Focus			X							X							X											5	
Eosinophilic Focus				X										X			X	X							X			11	
Fatty Change, Focal						2																1		3				10	1.8
Fatty Change, Diffuse	1	3										2								2								7	2.1
Hematopoietic Cell Proliferation				1		1				1		1																6	1.0
Hepatodiaphragmatic Nodule				X																				X				3	
Inflammation		1		1	1	2	1	2	1	2	2	1	1	2	1	1	1	1	2	2	1	2	1	1	1			46	1.4

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

+ .. Tissue examined microscopically

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M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		DAY ON TEST																									
		4	6	6	7	7	7	7	7	2	7	7	6	7	7	5	7	7	7	7	5	6	5	7	7	7	
		6	5	5	3	3	3	3	3	1	3	0	5	3	3	9	3	3	3	3	2	0	6	0	3	3	
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	2	0	6	4	2	8	0	2	
FISCHER 344 RATS FEMALE																											
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	
40 MG/KG		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
		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	* TOTALS
Mixed Cell Focus			X	X												X			X	X	X				X	15	
Vacuolization Cytoplasmic, Focal						2								1				1		X	X					3 1.3	
Vacuolization Cytoplasmic, Diffuse																										2 1.0	
Bile Duct, Cyst														1	1											2 1.0	
Bile Duct, Hyperplasia							1								1		1				1		1		1	15 1.0	
Centrilobular, Degeneration			2										3													6 2.2	
Oval Cell, Hyperplasia			1				1	1					1										1	1		16 1.0	
Mesentery			+				+			+									+	+				+		12	
Fat, Necrosis			3				3			3									3	3				3		12 3.0	
Oral Mucosa			+										+	+		+			+					+		12	
Gingival, Hyperplasia, Squamous			1										1	1		1			1					1		12 1.1	
Pancreas			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Mononuclear Cell											X			X								X				6	
Inflammation, Chronic Active			2		2				1			1			2				1	1				1	1	16 1.4	
Acinus, Atrophy			3						1			2							2					2		10 1.9	
Artery, Inflammation, Chronic Active																3										1 3.0	
Duct, Cyst					2																	1		1		5 1.4	
Salivary Glands			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																						3				1 3.0	
Inflammation																						3				1 3.0	
Stomach, Forestomach			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Erosion																										1 1.0	
Hyperplasia, Squamous																										1 3.0	
Inflammation																2										3 2.3	
Ulcer																3										2 3.0	

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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		4	6	6	7	7	7	7	7	2	7	7	6	7	7	5	7	7	7	7	5	6	5	7	7	7
		6	5	5	3	3	3	3	3	1	3	0	5	3	3	9	3	3	3	3	2	0	6	0	3	3
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	2	0	6	4	2	8	0	2
.....																										
FISCHER 344 RATS FEMALE 40 MG/KG																										
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
40 MG/KG		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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
		* TOTALS																								

Stomach, Glandular Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1.0
Tongue Hyperplasia, Squamous																+	2									1 1 2.0
Tooth Peridental Tissue, Inflammation	+														+	+			+							11 11 1.1
	2														1	1			1							

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart Cardiomyopathy Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 40 1.1 2 1.0
			1	1	1	1	1	1		1		1	1	1	2	1	1	1	1	1	1	1		1	1	
								1																		

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis				1	2		2	2		1	1	1	2	1		1	2	2	1		2	2		2	2	38 1.6
Degeneration, Cystic							2																			5 2.0
Hyperplasia					2																			3		8 1.6
Hypertrophy							1			2	2		2			2					2					11 1.8
Vacuolization Cytoplasmic	2		1			1	1						2		2		1			1	2		2			23 1.4

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Page 112

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
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Lab: BAT

DAY ON TEST		4	6	6	7	7	7	7	7	2	7	7	6	7	7	5	7	7	7	7	5	6	5	7	7	7		
		6	5	5	3	3	3	3	3	1	3	0	5	3	3	3	9	3	3	3	3	2	0	6	0	3	3	
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	0	2	0	6	4	2	8	0	2	
.....																												
FISCHER 344 RATS FEMALE 40 MG/KG		ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
			2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5
			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	
		* TOTALS																										

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia				2																						4	2.0
Infiltration Cellular, Mononuclear Cell													X													1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis				2	3		2	1			3		2	2		3	2	1	2				3	2	3	23	2.3
Cyst			1			2					1				1											12	1.3
Pars Distalis, Hyperplasia	1		2			3	2	2		2		1					3	3	2	3	2					26	2.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia		1	3		1	1	1	1			1	1	1	1	1			1	1	2		3			1	34	1.3

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia								1						1				2								6	1.5
Inflammation		1		1	1	4	1	1		1		1	1	1	1	2	1	1	2		1	1	1	1	1	43	1.3
Duct, Cyst	2	2	2	2						2					2		1			2	2			2		23	1.9
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst		3			2					2	3								1							9	2.3

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+ .. Tissue examined microscopically

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2) Mild 4) Marked

Page 113

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

DAY ON TEST		4	6	6	7	7	7	7	2	7	7	6	7	7	5	7	7	7	7	5	6	5	7	7	7		
		6	5	5	3	3	3	3	1	3	0	5	3	3	9	3	3	3	3	2	0	6	0	3	3		
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	2	0	6	4	2	8	0	2	
FISCHER 344 RATS FEMALE ANIMAL ID 40 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
		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	* TOTALS

Necrosis	2																										1 2.0
----------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--------------

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenomyosis																											1 2.0	
Cyst																											1 3.0	
Decidual Reaction																											1 3.0	
Inflammation										1						1											4 1.5	
Endometrium, Hyperplasia, Cystic																		1									6 2.5	

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																											1 2.0	
Hyperplasia		4	4			4						3			4	2				2							18 2.9	
Lymph Node																											3	
Ectasia																											1 2.0	
Mediastinal, Inflammation																											1 3.0	
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	1	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia																											4 2.3	
Hyperplasia, Histiocytic																											1 2.0	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation				1	1	1	2	2	1	1	1	1		1	1			1	1	1		2	2	1	1	1	40 1.3	
Hyperplasia, Lymphoid, Focal																											1	
Pigmentation				2	2	1	2	2	3	2	1	1	1	1				1	2	1	2	1	2	2	2	2	41 1.6	

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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
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DAY ON TEST		4	6	6	7	7	7	7	7	2	7	7	6	7	7	5	7	7	7	7	5	6	5	7	7	7		
		6	5	5	3	3	3	3	3	1	3	0	5	3	3	9	3	3	3	3	2	0	6	0	3	3		
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	2	0	6	4	2	8	0	2		
.....																												
FISCHER 344 RATS FEMALE 40 MG/KG		ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
				2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		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	* TOTALS	

Thymus	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	47
Atrophy		4	4	3	3	2	2			4	3	4	4	2	4		2	3	4		4	2	3	3	3		43 3.1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst							1	1				2		1	2		3			2					3		20 1.8
Hyperplasia										1	1	2										2	2				7 1.4
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																					4						1 4.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																											1
Cyst																											1 3.0

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Glios		2																									2 2.0
Hemorrhage		2																									1 2.0

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		DAY ON TEST																									
		4	6	6	7	7	7	7	7	2	7	7	6	7	7	5	7	7	7	7	5	6	5	7	7	7	
		6	5	5	3	3	3	3	3	1	3	0	5	3	3	9	3	3	3	3	2	0	6	4	2	8	3
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	2	0	6	4	2	8	0	2	
FISCHER 344 RATS FEMALE 40 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	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	* TOTALS

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation						2				2											2					5	1.8	
Metaplasia, Squamous																										1	1.0	
Alveolar Epithelium, Hyperplasia			2		1	1		1			2						1	1								15	1.7	
Alveolus, Infiltration Cellular, Histiocyte		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		46	1.0	
Serosa, Fibrosis																										1	1.0	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Lateral Wall, Inflammation		1		1																						3	1.3	
Nasolacrimal Duct, Inflammation		2						3						3												5	2.2	
Nerve, Degeneration		2																								1	2.0	
Olfactory Epithelium, Metaplasia																										1	2.0	
Respiratory Epithelium, Hyperplasia		1	1	1			1	1		1	1			1		1	1			1			1	1		25	1.0	
Septum, Inflammation		2		1						1				1		1	1	1								12	1.3	
Turbinate, Inflammation		2		1						1				1			1							1	1		12	1.3
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation																	1									3	1.0	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cornea, Inflammation									4														3		2 3.5
Iris, Inflammation																							2		1 2.0
Lens, Degeneration							3																		1 3.0
Retina, Atrophy							4																		1 4.0

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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
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Lab: BAT

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		6	5	5	3	3	3	3	3	1	3	0	5	3	3	9	3	3	3	2	0	6	0	3	3	
		4	5	8	0	2	2	0	2	1	2	9	8	2	2	0	0	0	2	0	6	4	2	8	0	2
FISCHER 344 RATS FEMALE 40 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
		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
		* TOTALS																								
Retina, Degeneration		1 2.0																								
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation		17 1.3																								
URINARY SYSTEM																										
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst		1 3.0																								
Mineralization		2	1	1	1	1	1		1	1	1		1	1		1		1		1	1		1	1		36 1.0
Nephropathy		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1		46 1.0
Pigmentation		2 1.5																								
Pelvis, Inflammation, Suppurative		1 2.0																								
Transitional Epithelium, Hyperplasia		1 1.0																								
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infiltration Cellular, Mononuclear Cell		1																								

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DAY ON TEST		6	7	7	7	7	4	7	6	6	7	7	6	4	6	7	7	7	7	7	7	2	7	7	7	7
		1	1	3	3	3	9	3	8	2	3	3	3	3	9	3	3	3	3	3	3	5	3	3	3	3
		2	6	1	1	1	7	2	1	3	1	1	0	7	3	1	2	0	0	1	2	5	2	2	0	1
FISCHER 344 RATS FEMALE ANIMAL ID 80 MG/KG																										
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
		females (cont...)																								

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	X	+	+	+	+	+	+	X
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																				1	+	+	+	+	+
Basophilic Focus	3	3	3	3	2	1	3		2	3	3			2	3	2	3	1	4	2	1	3	3	2	2
Clear Cell Focus											X													X	
Degeneration, Cystic																									
Eosinophilic Focus							X		X	X					X			X	X		X	X			
Fatty Change, Focal		1	1							2															
Fatty Change, Diffuse																		3							2
Hematopoietic Cell Proliferation																									

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		6	7	7	7	7	4	7	6	6	7	7	6	4	6	7	7	7	7	7	2	7	7	7	7	
DAY ON TEST		1	1	3	3	3	9	3	8	2	3	3	3	3	9	3	3	3	3	3	3	5	3	3	3	3
		2	6	1	1	1	7	2	1	3	1	1	0	7	3	1	2	0	0	1	2	5	2	2	0	1
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
80 MG/KG		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
		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
		females (cont...)																								
Hepatodiaphragmatic Nodule								X								X										
Inflammation				1	1	2		1		1	2		2		1	1	1		2	2	1	2	1	2	2	
Mixed Cell Focus				X						X			X			X				X		X				
Necrosis																		1								
Regeneration																									3	
Vacuolization Cytoplasmic, Focal																						3				
Vacuolization Cytoplasmic, Diffuse																	2									
Bile Duct, Hyperplasia					1							1	2						1	2	2		1		1	1
Centrilobular, Degeneration								1					2						3							
Oval Cell, Hyperplasia			1	1	1						1	1				1	1		2	1				1	1	
Mesentery											+					+						+			+	
Fat, Necrosis											3					3						3			3	
Oral Mucosa												+													+	
Gingival, Hyperplasia, Squamous												1													1	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell					X															X						
Inflammation, Chronic Active				1												1						1	1	1		
Acinus, Atrophy																1		1		1			2	2		
Duct, Cyst																										
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																			3							
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																		1								
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* .. 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. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

	DAY ON TEST	6	7	7	7	7	4	7	6	6	7	7	6	4	6	7	7	7	7	7	7	2	7	7	7	7
		1	1	3	3	3	9	3	8	2	3	3	3	3	9	3	3	3	3	3	3	5	3	3	3	3
		2	6	1	1	1	7	2	1	3	1	1	0	7	3	1	2	0	0	1	2	5	2	2	0	1
FISCHER 344 RATS FEMALE 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	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		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
80 MG/KG																										

females
(cont...)

Amyloid Deposition
Mineralization

1

Tooth
Peridental Tissue, Inflammation

+

+

+

+

+

+

1

1

1

1

2

1

CARDIOVASCULAR SYSTEM

Blood Vessel

+

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Heart
Cardiomyopathy
Degeneration

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ENDOCRINE SYSTEM

Adrenal Cortex
Angiectasis
Degeneration, Cystic
Hyperplasia
Hypertrophy
Necrosis
Vacuolization Cytoplasmic

+

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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		6	7	7	7	7	4	7	6	6	7	7	6	4	6	7	7	7	7	7	2	7	7	7	7	
DAY ON TEST		1	1	3	3	3	9	3	8	2	3	3	3	3	9	3	3	3	3	3	5	3	3	3	3	
		2	6	1	1	1	7	2	1	3	1	1	0	7	3	1	2	0	0	1	2	5	2	2	0	1
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
80 MG/KG		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
		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
		females (cont...)																								
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis				2	1	3		1	3	3							3		2	2						
Cyst				3				1																		
Cytoplasmic Alteration																										
Pars Distalis, Cyst																										
Pars Distalis, Hyperplasia			2	3	3		2			2	2		2							3		2			2	
Pars Nervosa, Cyst																										
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia			2		1		2	3	2	2			2							2	3		1		1	

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																										
Hyperplasia			3							3					2			2								
Inflammation	1		1	1					1	3	1	1			2	1		2		1	1	3	2	1	1	2
Duct, Cyst												2			2			2		2		2			2	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion																										

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Page 121

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		6	7	7	7	7	4	7	6	6	7	7	6	4	6	7	7	7	7	7	2	7	7	7	7	
		1	1	3	3	3	9	3	8	2	3	3	3	3	9	3	3	3	3	3	5	3	3	3	3	
		2	6	1	1	1	7	2	1	3	1	1	0	7	3	1	2	0	0	1	2	5	2	2	0	1
FISCHER 344 RATS FEMALE ANIMAL ID 80 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
		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
		females (cont...)																								

Cyst	2	3																			3			3	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenomyosis																							2		
Inflammation																									
Endometrium, Hyperplasia, Cystic													3												4

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Hyperplasia	2	3							3				4	2		3			3					2	
Myelofibrosis							2																		
Lymph Node													+												
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	+
Ectasia																									3
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation				1	1	1		1		2	1	1		3		1	1	2		1	1	1	1	2	1
Pigmentation				2	1	2				2	2	1		1	2	1	2	2		1	1	2	1	1	1
Capsule, Thrombosis																									
Thymus	+	M	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	3		4	3	2	3	3			3	4		2	4	4	3	4	4	3	3	3	3	2	2	4

* .. 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

Page 122

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		6	7	7	7	7	4	7	6	6	7	7	6	4	6	7	7	7	7	7	2	7	7	7	7		
		1	1	3	3	3	9	3	8	2	3	3	3	3	9	3	3	3	3	3	5	3	3	3	3		
		2	6	1	1	1	7	2	1	3	1	1	0	7	3	1	2	0	0	1	2	5	2	2	0	1	
FISCHER 344 RATS FEMALE ANIMAL ID 80 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
		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	females (cont...)

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																				1					
Hyperplasia									2							1									
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage						3																			
Peripheral Nerve																									
Spinal Cord																									

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		6	7	7	7	7	4	7	6	6	7	7	6	4	6	7	7	7	7	7	2	7	7	7	7																	
DAY ON TEST		1	1	3	3	3	9	3	8	2	3	3	3	3	9	3	3	3	3	3	3	5	3	3	3	3																
		2	6	1	1	1	7	2	1	3	1	1	0	7	3	1	2	0	0	1	2	5	2	2	0	1																
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
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																	
80 MG/KG		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3																	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7																	
		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																
		females (cont...)																																								
Inflammation		2																									1															
Alveolar Epithelium, Hyperplasia		2																									3	1														
Alveolus, Infiltration Cellular, Histiocyte		1																									1	1	1	1	1	1	1	1	1	1	1	1	1			
Nose		+																									+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lateral Wall, Inflammation																																							1	2		
Nasolacrimal Duct, Inflammation																																							2			
Olfactory Epithelium, Metaplasia																																								2		
Respiratory Epithelium, Hyperplasia		1																																		1		1	2	1		
Septum, Inflammation																																						1		2		
Turbinate, Inflammation																																							1	2		
Trachea		+																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																																										

SPECIAL SENSES SYSTEM

Ear																									
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Anterior Chamber, Ciliary Body, Iris, Inflammation																									
Cornea, Inflammation																									
Lens, Degeneration																									
Retina, Atrophy																									
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell		X																							
Inflammation																									

* .. 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

Zymbal's Gland																									
URINARY SYSTEM																									
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct																	2								2
Mineralization			1			1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1
Nephropathy				1	1	1		1	1	1	1	1			1	1	1	1	1	1		1	1	1	1
Pigmentation												2													
Transitional Epithelium, Hyperplasia																									
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell																			X						

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
 Time Report Reqsted: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

DAY ON TEST		7	5	7	7	7	7	7	6	7	7	7	7	7	7	6	6	5	7	7	7	7	7	5	7		
		3	2	3	0	3	3	3	6	0	3	3	3	3	3	3	5	8	3	3	3	3	3	1	0	3	
		2	7	0	8	1	1	1	6	1	2	2	2	2	1	2	8	8	3	0	0	0	2	1	5	5	1
FISCHER 344 RATS FEMALE ANIMAL ID 80 MG/KG																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		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	* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										1 2.0
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																		X								1
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										3
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																										2 1.5
Basophilic Focus	2	2	3	2	3	3	2	2	2	3	2	3	3	3	3			3	3	2	3	2	2	1	2	45 2.4
Clear Cell Focus							X			X	X															5
Degeneration, Cystic						1																				1 1.0
Eosinophilic Focus											X		X					X			X	X		X		14
Fatty Change, Focal		2				1	2			1														1		8 1.4
Fatty Change, Diffuse																	1									4 2.0
Hematopoietic Cell Proliferation															1	1										2 1.0

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

+ .. Tissue examined microscopically

x .. Lesion present

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BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		DAY ON TEST																										
		7	5	7	7	7	7	7	6	7	7	7	7	7	6	6	5	7	7	7	7	7	7	5	7			
		3	2	3	0	3	3	3	6	0	3	3	3	3	5	8	3	3	3	3	3	3	1	0	3			
		2	7	0	8	1	1	1	6	1	2	2	2	1	2	8	8	3	0	0	0	2	1	5	5	1		
																												
FISCHER 344 RATS FEMALE 80 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4		
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	
		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	* TOTALS	
Hepatodiaphragmatic Nodule				X																			X	X		5		
Inflammation		1	1	1	1	1	1	2	2	2	2	2	1	1	1	1		1	3	1	2	2	1	1	2	41 1.4		
Mixed Cell Focus		X			X	X	X	X				X					X		X			X	X	X	X	18		
Necrosis						1		2										2								4 1.5		
Regeneration																										1 3.0		
Vacuolization Cytoplasmic, Focal								1																		2 2.0		
Vacuolization Cytoplasmic, Diffuse																										1 2.0		
Bile Duct, Hyperplasia					1	1		1						1				1					1	1		16 1.2		
Centrilobular, Degeneration																2				2						5 2.0		
Oval Cell, Hyperplasia						1	1					1	1					1				1				17 1.1		
																												
Mesentery					+				+									+	+		+					9		
Fat, Necrosis					3				3									3	3		3					9 3.0		
																												
Oral Mucosa						+	+						+								+			+	7			
Gingival, Hyperplasia, Squamous						1	1						1								1			1		7 1.0		
																												
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infiltration Cellular, Mononuclear Cell			X		X					X					X											6		
Inflammation, Chronic Active				1	1	1	2	1					1		1	2				1						14 1.1		
Acinus, Atrophy				1	2	1		2				1		2	2					2		1				14 1.5		
Duct, Cyst							1																			1 1.0		
																												
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Necrosis																										1 3.0		
																												
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Mineralization																										1 1.0		
																												
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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 1) Minimal 3) Moderate
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TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7	5	7	7	7	7	7	6	7	7	7	7	7	6	6	5	7	7	7	7	7	7	5	7		
DAY ON TEST		3	2	3	0	3	3	3	6	0	3	3	3	3	5	8	3	3	3	3	3	3	1	0	3		
		2	7	0	8	1	1	1	6	1	2	2	2	1	2	8	8	3	0	0	0	2	1	5	1		
FISCHER 344 RATS FEMALE 80 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	4		
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0		
		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	
																											* TOTALS

Amyloid Deposition											2											1	2.0
Mineralization																						1	1.0
.....																							
Tooth		+	+	+	+											+	+			+	14		
Peridental Tissue, Inflammation		1	1	1	1											1	3			1	14 1.2		

CARDIOVASCULAR SYSTEM

Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy		1			1	1		1	2	2		1	1	1	1	2	1	2		1	1	1		1	1	37 1.2
Degeneration																										1 3.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis	1	2	1	2	2	2	3	2	1	1	1	1	2	2	2	1	2	2	1	2	2	2	1	2		43	1.7
Degeneration, Cystic				2									2	2				2								10	1.8
Hyperplasia	2			1								1	2				2	2	2		2					15	1.6
Hypertrophy					2	2	1			1			2				1				2					13	1.8
Necrosis																2										1	2.0
Vacuolization Cytoplasmic	2	1		1	1			2		1	1		1			1					2					19	1.3
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																										1	1.0
Necrosis																										1	2.0

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Page 128

TDMS No. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

		7 3 2	5 2 7	7 3 0	7 0 8	7 3 1	7 3 1	7 3 1	6 6 1	7 0 1	7 3 2	7 3 2	7 3 2	7 3 1	7 3 2	6 5 8	6 8 8	5 3 3	7 3 0	7 3 0	7 3 0	7 3 2	7 3 1	5 1 5	7 0 5	7 3 1
																										
FISCHER 344 RATS FEMALE 80 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
		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
		* TOTALS																								
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	47
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis			3	3	2	3			2	2	1	2			2				1	2		2	3	2		24 2.2
Cyst														1	2										1	5 1.6
Cytoplasmic Alteration																								2		1 2.0
Pars Distalis, Cyst																1										1 1.0
Pars Distalis, Hyperplasia		2						2	2	1	3		3	2			2	1	2	3	3	3			2	25 2.3
Pars Nervosa, Cyst																									2	1 2.0
																										
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia				1		2		1		1	1	1	1	1	1	1	1			1	1	1	2	1		27 1.4

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Cyst																								X		1
Hyperplasia				3	2	1	3																			8 2.4
Inflammation	2				1	2	2	1	1	1	2	1	1	1	2	1		1	1	1	1	1	1	3	1	37 1.4
Duct, Cyst			2	2	3	2	2		2	2	2										2			3		16 2.1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Congestion																								3		1 3.0

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Page 129

TDMS No. 88123 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: SELLS, D. - KURTZ, F.

Date Report Requested: 12/05/2005
 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		7	5	7	7	7	7	7	6	7	7	7	7	7	7	6	6	5	7	7	7	7	7	5	7
DAY ON TEST		3	2	3	0	3	3	3	6	0	3	3	3	3	3	5	8	3	3	3	3	3	1	0	3
		2	7	0	8	1	1	1	6	1	2	2	2	1	2	8	8	3	0	0	0	2	1	5	1
FISCHER 344 RATS FEMALE 80 MG/KG	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	4
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
		* TOTALS																							

Cyst	3	5	2.8
------	---	---	-----

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2	1.5
Adenomyosis																											
Inflammation									1																	1	1.0
Endometrium, Hyperplasia, Cystic														1					4		4					5	3.2

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0
Atrophy																											
Hyperplasia								2							3	3	4				3					13	2.8
Myelofibrosis																										1	2.0

Lymph Node																										2	
------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--

Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	1	1	3.0
Ectasia																												

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	--	--

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hematopoietic Cell Proliferation	1	1	2	2	1	1	2	1	1	1	2	1	2	2	2		2	1	1		1	1	1	1		40	1.3
Pigmentation	2	2	2	1	2		2	2	2	2	2	1	2	2	1		2	2	1		2	1	2		1	38	1.6
Capsule, Thrombosis																										1	3.0

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	46	
Atrophy	3	2	2	2	2	2	3	4	3	2	2	2	3	3	4	4	4	2	2	2	3	3		3	2	45	2.9

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TDMS No. 88123 - 05
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Species/Strain: RATS/F 344

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FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

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Lab: BAT

FISCHER 344 RATS FEMALE 80 MG/KG	DAY ON TEST	7	5	7	7	7	7	7	6	7	7	7	7	7	6	6	5	7	7	7	7	7	7	5	7
		3	2	3	0	3	3	3	6	0	3	3	3	3	5	8	3	3	3	3	3	3	1	0	3
		2	7	0	8	1	1	1	6	1	2	2	2	1	2	8	8	3	0	0	0	2	1	5	1
	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	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
		7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
		* TOTALS																							

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst			1		2		3							3						1					6 1.8
Hyperplasia	1					1							1					2			1				7 1.3
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemorrhage																									1 3.0
Peripheral Nerve				+																					1
Spinal Cord				+																					1

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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 Time Report Requested: 14:23:30
 First Dose M/F: 03/21/01 / 03/20/01
 Lab: BAT

		7	5	7	7	7	7	7	6	7	7	7	7	7	6	6	5	7	7	7	7	7	5	7											
DAY ON TEST		3	2	3	0	3	3	3	6	0	3	3	3	3	5	8	3	3	3	3	3	3	1	0	3										
		2	7	0	8	1	1	1	6	1	2	2	2	1	2	8	8	3	0	0	0	2	1	5	5	1									
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
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										
80 MG/KG		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4										
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0										
		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									
		* TOTALS																																	
Inflammation														1	1													8	1.3						
Alveolar Epithelium, Hyperplasia		1	1																2														6	1.7	
Alveolus, Infiltration Cellular, Histiocyte		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43	1.0								
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50									
Lateral Wall, Inflammation																										2	1.5								
Nasolacrimal Duct, Inflammation														1													2	1.5							
Olfactory Epithelium, Metaplasia																										2	2.0								
Respiratory Epithelium, Hyperplasia		1				1	1				1				1	1	1	1	1				1	22	1.0										
Septum, Inflammation						1																									6	1.3			
Turbinate, Inflammation																										9	1.6								
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50									
Inflammation		1	1																1	2														7	1.1

SPECIAL SENSES SYSTEM

Ear																										2
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Anterior Chamber, Ciliary Body, Iris, Inflammation																										1 3.0
Cornea, Inflammation																										1 1.0
Lens, Degeneration																								3		3 3.3
Retina, Atrophy																								4		2 4.0
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infiltration Cellular, Mononuclear Cell																										1
Inflammation		1		1		1		1		1		3	1		1			1			1			1		17 1.4

* .. 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. 88123 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
FORMAMIDE
CAS Number: 75-12-7
Pathologist: SELLS, D. - KURTZ, F.

Date Report Reqsted: 12/05/2005
Time Report Reqsted: 14:23:30
First Dose M/F: 03/21/01 / 03/20/01
Lab: BAT

DAY ON TEST		7	5	7	7	7	7	7	6	7	7	7	7	7	7	6	6	5	7	7	7	7	7	7	5	7	
		3	2	3	0	3	3	3	6	0	3	3	3	3	3	5	8	3	3	3	3	3	3	1	0	3	
		2	7	0	8	1	1	1	6	1	2	2	2	2	1	2	8	8	3	0	0	0	2	1	5	5	1
.....																											
FISCHER 344 RATS FEMALE ANIMAL ID 80 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
		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	* TOTALS

Zymbal's Gland

+

1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infarct																											2	2.0
Mineralization	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1			1	1	1	1	1	1	1		43	1.0
Nephropathy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1		45	1.0
Pigmentation																2											2	2.0
Transitional Epithelium, Hyperplasia																2											1	2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infiltration Cellular, Mononuclear Cell																											1	

*** END OF REPORT ***