

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

F1_R2

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

C Number: C95011B

Lock Date: 11/09/2004

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

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ALIMENTARY SYSTEM

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	6	6	7	7	4	7	5	6	7	6	7	7	7	7	6	7	7	5	7	6	6	5	7	7	7		
DAY ON TEST	6	9	2	0	8	2	1	0	2	9	2	0	2	2	3	2	2	3	2	7	1	4	2	2	2		
	9	5	8	7	9	9	7	3	9	3	8	1	9	8	6	8	8	2	8	8	6	1	7	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		
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		
	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...)																											
Hematopoietic Cell Proliferation																										2	
Hemorrhage																											
Hepatodiaphragmatic Nodule										X	X																
Inflammation, Chronic Active										1		2		2	2		1	1		2						X	
Mixed Cell Focus										X	X									X							
Bile Duct, Hyperplasia	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	3	2	2	2		
Centrilobular, Hepatocyte, Degeneration																											
Hepatocyte, Degeneration, Cystic	2										2		1			2											
Hepatocyte, Fatty Change	1										2		3	1	1	3					1	2	2	1			
Hepatocyte, Vacuolization Cytoplasmic										1				2	1	1	1	1	1	3	2	2	2				
Mesentery														+	+					+	+						
Fat, Fibrosis														3							2						
Fat, Inflammation, Chronic Active														4	4												
Fat, Mineralization														2							1						
Fat, Necrosis														4	4						4						
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst																											
Inflammation, Chronic Active														1													
Pigmentation														2													
Acinus, Atrophy										2	1	2		4		2		3	3	3	2	2	2	2			
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Chronic Active																					3						
Epithelium, Hyperplasia																											
Epithelium, Ulcer																					4						

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Stomach, Glandular

Inflammation, Chronic Active
Epithelium, Erosion

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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	6	9	2	0	8	2	1	0	2	9	2	0	2	2	3	2	2	3	2	7	1	4	2	2	2
	9	5	8	7	9	9	7	3	9	3	8	1	9	8	6	8	8	2	8	8	6	1	7	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
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
	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...)**

Hyperplasia	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Inflammation, Chronic Active																								
Duct, Ectasia																								
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																								
Epithelium, Hyperplasia	1	2																						
Epithelium, Hypertrophy	2	1																						
Seminal Vesicle	1	1	2																					
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization	1	1	1																					
Germinal Epithelium, Degeneration																								
Interstitial Cell, Hyperplasia																								

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	4	4																						
Lymph Node																								
Deep Cervical, Pigmentation																								
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
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	6	9	2	0	8	2	1	0	2	9	2	0	2	2	3	2	2	3	2	7	1	4	2	2
	9	5	8	7	9	9	7	3	9	3	8	1	9	8	6	8	8	2	8	8	6	1	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
	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...)**

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation																				3	2				
Necrosis																									

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Duct, Dilatation																				2					

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Skeletal Muscle	+																			+					

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression																				2					
Hemorrhage																									

Peripheral Nerve	+																								

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	6	9	2	0	8	2	1	0	2	9	2	0	2	2	3	2	2	3	2	7	1	4	2	2	2
	9	5	8	7	9	9	7	3	9	3	8	1	9	8	6	8	8	2	8	8	6	1	7	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
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
	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...)**

Spinal Cord

+

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis																									
Inflammation, Chronic Active																									
Metaplasia, Osseous	2																								
Alveolar Epithelium, Hyperplasia																									
Alveolar Epithelium, Metaplasia, Squamous																									
Alveolus, Infiltration Cellular, Histiocyte	1																								
Perivascular, Infiltration Cellular, Lymphoid	2																								
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body																									
Inflammation, Suppurative																									
Inflammation, Chronic Active																									
Thrombosis																									
Glands, Dilatation																									
Nasolacrimal Duct, Inflammation, Suppurative																									
Nasolacrimal Duct, Inflammation, Chronic																									
Olfactory Epithelium, Accumulation, Hyaline Droplet																									
Olfactory Epithelium, Degeneration																									
Olfactory Epithelium, Metaplasia, Respiratory																									
Olfactory Epithelium, Necrosis																									

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ANIMAL ID 0 MG/KG	DAY ON TEST	7	6	5	7	6	7	7	6	7	7	7	6	5	7	7	5	6	6	6	5	
		2	0	9	2	2	1	2	9	2	6	0	2	2	7	2	4	8	2	2	1	6
		7	9	0	9	9	2	9	5	9	6	0	9	8	4	7	6	9	8	7	9	4
FISCHER 344 RATS MALE																						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	* TOTALS	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	3	3	3	3	3	3	3	3	3	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	
Hematopoietic Cell Proliferation					1	2															5 1.6	
Hemorrhage																					1 3.0	
Hepatodiaphragmatic Nodule																					4	
Inflammation, Chronic Active	2				1		2		2		1	2		2	2	1	1	1	1	2		25 1.4
Mixed Cell Focus	X				X				X		X	X		X		X	X	X			16	
Bile Duct, Hyperplasia	1	2	3	2	2	2	2	2	2	3	2	2	2	2	2	2	2	1	2	2	2	49 2.0
Centrilobular, Hepatocyte, Degeneration										3												2 3.0
Hepatocyte, Degeneration, Cystic	1	2																				8 1.8
Hepatocyte, Fatty Change																						14 2.0
Hepatocyte, Vacuolization Cytoplasmic	1										1	2	4	1		2	2	1	1	3		18 1.6
Mesentery																						9
Fat, Fibrosis																						5 2.4
Fat, Inflammation, Chronic Active																						5 3.4
Fat, Mineralization																						2 1.5
Fat, Necrosis																						6 4.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst										3												1 3.0
Inflammation, Chronic Active																						1 1.0
Pigmentation																						1 1.0
Acinus, Atrophy	1			1	2			1		2		2		2	3	2	2	2	3	2		23 2.1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																						4 2.5
Epithelium, Hyperplasia																						2 2.5
Epithelium, Ulcer																						3 4.0

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	2	0	9	2	2	1	2	9	2	6	0	2	2	7	2	4	8	2	2	1	6	2	7	8
	7	9	0	9	9	2	9	5	9	6	0	9	8	4	7	6	9	8	7	9	6	9	4	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
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	3	3	3	3	3	3	3	3	3	3	3	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
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Angiectasis																								15 2.7
Pars Distalis, Cyst																								8 1.6
Pars Distalis, Cyst, Multiple																								1 2.0
Pars Distalis, Hyperplasia	1	3	2																					20 2.2
Pars Distalis, Pigmentation																								14 1.4
Pars Intermedia, Pigmentation																								3 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pigmentation																								1 2.0
Ultimobranchial Cyst																								2 2.0
C-cell, Hyperplasia																								11 2.2
Follicular Cell, Hyperplasia																								1 2.0

GENERAL BODY SYSTEM

Peritoneum

1**GENITAL SYSTEM**

Coagulating Gland

1Epididymis
Granuloma Sperm**4****3.3**

Preputial Gland

50

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FISCHER 344 RATS MALE 0 MG/KG	ANIMAL ID	DAY ON TEST																									* TOTALS
		7	6	5	7	6	7	7	6	7	7	7	6	7	6	5	7	7	5	6	6	6	5	6	6	6	5
		2	0	9	2	2	1	2	9	2	6	0	2	2	7	2	4	8	2	2	1	6	2	7	8	8	2
		7	9	0	9	9	2	9	5	9	6	0	9	8	4	7	6	9	8	8	7	9	6	9	4	2	
Hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflammation, Chronic Active		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duct, Ectasia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prostate		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
Inflammation, Chronic Active		3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	43.21
Epithelium, Hyperplasia		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	3.37
Epithelium, Hypertrophy		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
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	1	32.13
Germinal Epithelium, Degeneration		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	5.30
Interstitial Cell, Hyperplasia		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	10.14

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	19.39
Lymph Node	+	+																								10
Deep Cervical, Pigmentation																										2.0
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

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

DAY ON TEST	7	6	5	7	6	7	7	6	7	7	7	6	7	6	5	7	7	5	6	6	6	5			
	2	0	9	2	2	1	2	9	2	6	0	2	2	7	2	4	8	2	2	1	6	2	7	8	
	7	9	0	9	9	2	9	5	9	6	0	9	8	4	7	6	9	8	8	7	9	6	9	4	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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																								
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hematopoietic Cell Proliferation					2	3																		5	2.4
Necrosis					3																			1	3.0
Thymus	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	48		

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Duct, Dilatation					2																			7	2.4
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																							3

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Compression																							1	4.0	
Hemorrhage					3																		4	4	2.8
Peripheral Nerve																							1		

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Lab: BAT

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

Spinal Cord

1

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibrosis																								1 2.0
Inflammation, Chronic Active	2																							22 1.5
Metaplasia, Osseous		1			1	2	1		1	2	1		1		1	2	1	1	2					1 2.0
Alveolar Epithelium, Hyperplasia																								9 2.0
Alveolar Epithelium, Metaplasia, Squamous																								1 2.0
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	28 1.0
Perivascular, Infiltration Cellular, Lymphoid	1		2		2	1	1		1	2	1	1	1	1	2	1	1	1	1	1	1	1	2	29 1.3
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Foreign Body																								10
Inflammation, Suppurative		X																						3 1.7
Inflammation, Chronic Active																								6 1.3
Thrombosis																								4 4.0
Glands, Dilatation																								1 2.0
Nasolacrimal Duct, Inflammation, Suppurative																								2 2.0
Nasolacrimal Duct, Inflammation, Chronic																								3 2.0
Olfactory Epithelium, Accumulation, Hyaline Droplet																								6 1.3
Olfactory Epithelium, Degeneration	1	1			1	1	2	1		1	1		1	1	1	1	1	1	1	1	1	1	1	18 1.1
Olfactory Epithelium, Metaplasia, Respiratory																								2 2.0
Olfactory Epithelium, Necrosis																								1 3.0

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DAY ON TEST	7	6	5	7	6	7	7	6	7	7	7	6	7	6	5	7	7	5	6	6	6	5			
	2	0	9	2	2	1	2	9	2	6	0	2	2	7	2	4	8	2	2	1	6	2	7	8	
	7	9	0	9	9	2	9	5	9	6	0	9	8	4	7	6	9	8	8	7	9	6	9	4	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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																								
Respiratory Epithelium, Accumulation, Hyaline Droplet	2																								7 1.6
Respiratory Epithelium, Hyperplasia	1	3																							28 1.9
Respiratory Epithelium, Necrosis																									1 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lens, Cataract																									3 3.3
Retina, Degeneration																									3 3.3
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Inflammation, Chronic Active		1																							5 1.2

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19 1.0	
Nephropathy	1	1	2	2	1	2	1	2	2	3	3	1	2	3	2	2	2	2	2	2	1	2	1	50 1.9	
Cortex, Cyst																									1 2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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Lab: BAT

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	X	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																								
Basophilic Focus	X	X	X		X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
Clear Cell Focus	X								X		X	X	X	X	X	X	X	X	X	X	X	X	X	
Hematopoietic Cell Proliferation																					1	1		
Hepatodiaphragmatic Nodule		X																X		X			X	
Inflammation, Chronic Active	1	2	2		1			1	1	2		1	1	2	1	1	1	1	2	1	1	1	2	1
Mixed Cell Focus									X			X	X	X	X	X	X	X		X		X	X	
Bile Duct, Hyperplasia	2	3	2	2	2	3	3	2	1	2	3	2	2	2	1	1	2	3	2	1	2	3	2	2
Centrilobular, Hepatocyte, Degeneration																					4			

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Page 18

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TDMS No. 95011 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

FISCHER 344 RATS MALE 188 MG/KG	ANIMAL ID	males (cont...)																								
		DAY ON TEST		7	7	7	6	7	5	7	7	7	6	7	7	7	7	6	7	6	7	6	7	7	7	3
		2	2	2	9	2	8	2	2	2	5	2	2	2	2	2	9	2	2	7	2	9	2	6	6	6
		9	8	7	3	7	9	7	9	9	8	4	8	8	7	9	8	8	0	8	2	8	2	7	7	6
Hepatocyte, Degeneration, Cystic	1	2	1		2	2		1								1		2		1					2	
Hepatocyte, Fatty Change					1																					
Hepatocyte, Hyperplasia																										
Hepatocyte, Necrosis																										
Hepatocyte, Vacuolization Cytoplasmic	2																									
Mesentery	+																									
Fat, Fibrosis																										
Fat, Hemorrhage																										
Fat, Inflammation, Chronic Active																										
Fat, Mineralization																										
Fat, Necrosis	3																									
Fat, Pigmentation																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Acinus, Atrophy																										
Acinus, Hyperplasia																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Erosion																										
Tongue																										

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DAY ON TEST	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	6	7	6	7	7	7	3	
	2	2	2	9	2	8	2	2	2	2	5	2	2	2	2	9	2	2	7	2	9	2	6
	9	8	7	3	7	9	7	9	9	8	4	8	8	7	9	8	8	0	8	2	8	2	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
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
188 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
	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	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

**males
(cont...)**

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation																							
Hyperplasia	1																						
Hypertrophy	2	2																					
Necrosis																							
Vacuolization Cytoplasmic	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1	1	1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																							
Hyperplasia	4																						
Islets, Pancreatic	2	2																					
Parathyroid Gland	1	2	2	2	2	2	2	2	2	2	3	3	3	1	1	2	2	3	3	3	1	1	1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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DAY ON TEST	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	6	7	6	7	7	7	3	
	2	2	2	9	2	8	2	2	2	2	5	2	2	2	2	9	2	2	7	2	9	2	6
	9	8	7	3	7	9	7	9	9	8	4	8	8	7	9	8	8	0	8	2	8	2	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
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
188 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
	5	5	5	5	5	5	5	5	5	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

**males
(cont...)**

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active	2	1																						
Metaplasia, Osseous																								
Metaplasia, Squamous																								
Alveolar Epithelium, Hyperplasia	2	1	3																					
Alveolus, Infiltration Cellular, Histiocyte	1	1	1																					
Perivascular, Infiltration Cellular, Lymphoid	1	1	1																					
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body	X	X																						
Inflammation, Suppurative																								
Inflammation, Chronic Active																								
Thrombosis																								
Glands, Dilatation																								
Nasolacrimal Duct, Inflammation, Suppurative																								
Nasolacrimal Duct, Inflammation, Chronic																								
Olfactory Epithelium, Cyst																								
Olfactory Epithelium, Degeneration	1	2	1																					
Olfactory Epithelium, Metaplasia, Respiratory	1	1																						
Respiratory Epithelium, Hyperplasia	2	3	1	2	1	2	2																	
Respiratory Epithelium, Metaplasia, Squamous																								
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

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x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	7	6	7	6	7	6	7	7	3
	2	2	2	9	2	8	2	2	2	2	5	2	2	2	2	2	9	2	2	7	2	9	2	6
	9	8	7	3	7	9	7	9	9	8	4	8	8	7	9	8	8	0	8	2	8	2	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7
188 MG/KG	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...)

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lens, Cataract																								
Retina, Degeneration																								

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																								

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct																								
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	2	3	2	2	2	2	2	2	2	2	1	1	1	2	2	1	3	2	2	1	2	3	3	1
Bilateral, Infarct																								
Cortex, Cyst																								
Renal Tubule, Accumulation, Hyaline																								
Droplet																								

Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

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
188 MG/KG		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	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

ALIMENTARY SYSTEM

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Page 26

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

ANIMAL ID 188 MG/KG	DAY ON TEST	7	7	7	7	7	5	7	7	7	7	4	5	7	7	7	6	7	7	7	7	6	7		
		2	2	2	1	2	8	2	2	2	2	3	4	0	2	2	1	2	2	2	2	2	7	2	
		9	8	7	4	7	7	8	8	7	8	6	8	0	8	4	6	9	7	8	7	9	7	1	
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
		* TOTALS																							
Hepatocyte, Degeneration, Cystic	2							1	1			2			1	1						1	2		17 1.5
Hepatocyte, Fatty Change			3									1	2												7 2.1
Hepatocyte, Hyperplasia												4													1 4.0
Hepatocyte, Necrosis																		2							4 2.5
Hepatocyte, Vacuolization Cytoplasmic	1	1	3	3				1	1	1				3			2	2			2	1			24 1.7
Mesentery												+	+			+								+	8
Fat, Fibrosis												2	3											3	6 2.7
Fat, Hemorrhage																2									1 2.0
Fat, Inflammation, Chronic Active												4	2												5 2.8
Fat, Mineralization																									1 2.0
Fat, Necrosis												4			4									4	6 3.8
Fat, Pigmentation												1													2 1.5
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basophilic Focus																									1
Acinus, Atrophy	1	1			2	2		1		2	1				1	1	1	1						21 1.5	
Acinus, Hyperplasia																								4	1 4.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperplasia												2													1 2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Erosion																								2	2.0
Tongue																									1

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy	2	2	2	3	2	3	2	2	2	2	2	3	2	2	2	1	2	2	2	2	2	3	2	49 2.1
Pigmentation																								1 1.0
Atrium, Thrombosis																								4 3.8

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation																								6 1.0
Hyperplasia																								7 2.1
Hypertrophy																								2 1.5
Necrosis																								1 3.0
Vacuolization Cytoplasmic																								25 1.5
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																								1 4.0
Hyperplasia	1	2	1			1	3		3		1	2		1	2		1	1	1	2	1			26 1.8
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006

Time Report Registered: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																					2 3.0	
Inflammation, Chronic Active	1	1	1	2	1	1	1	2	3	2	4	1	1	1	1	2	3	1	1	2	3	46 1.7
Bilateral, Hyperplasia									3												1 3.0	
Duct, Ectasia									4												2 4.0	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active	2	1		2		2		2	2	1	2	1	2	1	2	1	2	2	2	2	27 1.8	

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+ .. Tissue examined microscopically

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I .. Insufficient tissue

M., Missing tissue

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

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Lab: BAT

HEMATOPOIETIC SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

Page 30

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

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Lab: BAT

	7	7	7	7	7	5	7	7	7	7	4	5	7	7	7	6	7	7	7	7	7	6	7	
	2	2	2	1	2	8	2	2	2	2	3	4	0	2	2	1	2	2	2	2	2	2	7	2
	9	8	7	4	7	7	8	8	7	8	8	6	8	0	8	4	6	9	7	8	7	9	7	1
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
188 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
	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																							

INTEGUMENTARY SYSTEM

Mammary Gland Duct, Dilatation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
	2																						15 2.1	
Skin																								
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

MUSCULOSKELETAL SYSTEM

Bone Hyperostosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
	1																						1 4.0	
Skeletal Muscle																								

NERVOUS SYSTEM

Brain Compression	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																							2 3.5	
Hydrocephalus																							2 2.5	
Cerebellum, Necrosis																							1 3.0	
Peripheral Nerve																								
																							1	
Spinal Cord																								
Hemorrhage																							1 3.0	

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation, Chronic Active						1			2	1													19	1.3	
Metaplasia, Osseous											1												2	1.0	
Metaplasia, Squamous												3												1	3.0
Alveolar Epithelium, Hyperplasia	3					2			4	1						2			3					15	2.3
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		30	1.0
Perivascular, Infiltration Cellular, Lymphoid						1	1	1	1	1														28	1.0
Nose	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Foreign Body									X							X		X		X	X	X		14	
Inflammation, Suppurative												2				2		3		1				7	1.7
Inflammation, Chronic Active											1													9	1.8
Thrombosis																4								4	3.5
Glands, Dilatation																								1	2.0
Nasolacrimal Duct, Inflammation, Suppurative						2																		1	2.0
Nasolacrimal Duct, Inflammation, Chronic																								2	4.2.3
Olfactory Epithelium, Cyst																								1	
Olfactory Epithelium, Degeneration	1	1	1	1	1											1	1	1		1		1		22	1.1
Olfactory Epithelium, Metaplasia, Respiratory						2																	1	5	1.4
Respiratory Epithelium, Hyperplasia												1		2		1	2	1	2	2	1	2		24	1.7
Respiratory Epithelium, Metaplasia, Squamous																								2	1.5
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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

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BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

	7	7	7	7	7	5	7	7	7	7	4	5	7	7	7	6	7	7	7	7	7	6	7
	2	2	2	1	2	8	2	2	2	2	3	4	0	2	2	1	2	2	2	2	2	2	7
	9	8	7	4	7	7	8	8	7	8	6	8	0	8	4	6	9	7	8	7	9	7	1
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
188 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
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	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
	* TOTALS																						

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lens, Cataract																							1	4.0
Retina, Degeneration																							1	4.0
Harderian Gland																								
Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																							6	1.5

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infarct																							1	4.0	
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	30	1.0	
Nephropathy	3	2	1	2	1	1	2	1	2	3	2	2	2	2	2	2	3	1	1	1	1	2	2	49	1.9
Bilateral, Infarct																							1	4.0	
Cortex, Cyst																							1	4.0	
Renal Tubule, Accumulation, Hyaline																							1	4.0	
Droplet																							4		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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x .. Lesion present

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TDMS No. 95011 - 07

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Date Report Reqstd: 09/01/2006

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

DAY ON TEST	7	7	7	7	6	7	7	7	4	6	6	7	4	7	7	6	6	7	7	7	6	7	6	7	7
	2	2	2	2	4	2	2	2	9	8	2	2	8	2	2	9	7	2	2	2	2	1	2	7	2
	7	9	7	8	8	7	8	7	0	8	3	8	3	8	7	3	2	7	8	7	0	8	1	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
375 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
Bile Duct, Hyperplasia	2	2	2	2		2	2	2	2	2	3	2	2	2	2	2	2	3	3	2	2	2	2	2	2
Centrilobular, Hepatocyte, Degeneration																			4						
Hepatocyte, Degeneration, Cystic	2	2	2																						
Hepatocyte, Fatty Change																									
Hepatocyte, Hyperplasia																									
Hepatocyte, Necrosis																									
Hepatocyte, Vacuolization Cytoplasmic	2	1							1																
Mesentery																									
+									+																
Fat, Fibrosis									3																
3									3																
Fat, Inflammation, Chronic Active																									
1																									
Fat, Mineralization																									
2																									
Fat, Necrosis									4																
Pancreas																									
+									+																
Acinus, Atrophy									2																
3									3																
Acinus, Hyperplasia																									
Duct, Cyst									4																
Salivary Glands																									
+									+																
Inflammation, Chronic Active									3																
1									3																
Stomach, Forestomach																									
+									+																
Inflammation, Chronic Active									4																
+									+																
Epithelium, Ulcer																									
Stomach, Glandular																									
+									+																
Epithelium, Erosion									+																
									+																

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DAY ON TEST	7	7	7	7	6	7	7	7	4	6	6	7	4	7	7	6	6	7	7	7	6	7	6	7
	2	2	2	2	4	2	2	2	9	8	2	2	8	2	2	9	7	2	2	2	1	2	7	2
	7	9	7	8	8	7	8	7	0	8	3	8	3	8	7	3	2	7	8	7	0	8	1	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
375 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
	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

**males
(cont...)**

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

Cardiomyopathy

Mineralization

Atrium, Thrombosis

+ +

2 2 2 2 3 2 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 2 3 2 2 2

ENDOCRINE SYSTEM

Adrenal Cortex

Accessory Adrenal Cortical Nodule

Degeneration, Fatty

Hematopoietic Cell Proliferation

Hyperplasia

Hypertrophy

Necrosis

Vacuolization Cytoplasmic

Capsule, Inflammation, Chronic Active

+ +

3 2

Adrenal Medulla

Hyperplasia

+ +

2 2 3 3 2 1 3

Islets, Pancreatic

Hyperplasia

+ +

2

Parathyroid Gland

+ + + + + + + + M + + + + + + + + + + + + + + + + + +

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 6 | 6 | 7 | 4 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 9 | 8 | 2 | 2 | 8 | 2 | 2 | 9 | 7 | 2 | 2 | 2 | 1 | 2 | 7 | 2 |
| | 7 | 9 | 7 | 8 | 8 | 7 | 8 | 7 | 0 | 8 | 3 | 8 | 3 | 8 | 7 | 3 | 2 | 7 | 8 | 7 | 0 | 8 | 1 | 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 |
| 375 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 |
| | 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 |

**males
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | 2 | 4 | | | | 4 | 3 | | 2 | | 4 | 3 | 3 | | | | | 3 | | 3 | 2 | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Pars Distalis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Pigmentation | 1 | 1 | | | | 1 | 2 | | 2 | 3 | | 1 | 3 | | 2 | 2 | 4 | | 2 | | 1 | 2 | 2 | 1 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| C-cell, Hyperplasia | 1 | | | | | | | | 2 | | | | | | | | | | 2 | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 3 | 1 | | 2 | 2 | 1 | | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| Duct, Ectasia | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

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I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 95011 - 07

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Route: GAVAGE

Species/Strain: RATS/F 344

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5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

HEMATOPOIETIC SYSTEM

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Page 38

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| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 6 | 6 | 7 | 4 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 9 | 8 | 2 | 2 | 8 | 2 | 2 | 9 | 7 | 2 | 2 | 2 | 1 | 2 | 7 | 2 |
| | 7 | 9 | 7 | 8 | 8 | 7 | 8 | 7 | 0 | 8 | 3 | 8 | 3 | 8 | 7 | 3 | 2 | 7 | 8 | 7 | 0 | 8 | 1 | 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 |
| 375 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 |
| | 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 |

males
(cont...)

Spinal Cord

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | 1 | 2 | 1 | | | 1 | 2 | | 1 | 1 | | | 1 | | 2 | 2 | | | 1 | 1 | 2 | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | 3 | | 1 | | | 1 | | | | | | | | | 2 | | | | 2 | | | | 2 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | 1 | 1 | 1 | | 1 | | | | 2 | | | | | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | X | X | | | X | X | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 2 | | | 3 | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Thrombosis | | | | | | | 4 | | | | | | | | | | | | 4 | | | | | | |
| Nasolacrimal Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | | | 2 | | 1 | 2 | 1 | 2 | | | | | | | 1 | 1 | | | 1 | 1 | | | | | |
| Olfactory Epithelium, Metaplasia,
Respiratory | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | 1 | | | 2 | | | | | | | | | | | 1 | 2 | | | 2 | 1 | | | | |
| Respiratory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

* ... 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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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | |
| | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 9 | 2 |
| | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 1 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 375 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 | 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 | 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 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Periesophageal Tissue, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | X | X | X | X | X | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | 27 | |
| Clear Cell Focus | | X | X | | X | | | | | | X | | | | | | | | | | | | | 11 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 30 1.2 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 16 |

* .. 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. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| ANIMAL ID
375 MG/KG | DAY ON TEST | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | | |
|---|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | | 2 | 7 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 9 | 2 | |
| | | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 1 | 9 |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| Centrilobular, Hepatocyte, Degeneration | | 3 | | | | | | | | | | | | | | | | | | | | | | | 5 3.6 |
| Hepatocyte, Degeneration, Cystic | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | 15 2.1 |
| Hepatocyte, Fatty Change | | 2 | | | | | | | | | | | | | | | | | | | | | | | 7 1.9 |
| Hepatocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hepatocyte, Necrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 16 1.4 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Fat, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |
| Fat, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Fat, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Acinus, Atrophy | | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 3 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 25 2.0 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epithelium, Ulcer | | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epithelium, Erosion | | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

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| DAY ON TEST | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 7 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 9 | 2 | |
| | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 1 | 9 |
| 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 |
| 375 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 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 49 2.2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 11 1.4 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 25 1.3 |
| Capsule, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 17 2.1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

* .. 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

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TDMS No. 95011 - 07

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Lab: BAT

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 7 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 2 | 9 | 2 | |
| | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 7 | 1 | 9 |
| 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 |
| 375 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 | 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**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|---------------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Angiectasis | 4 | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | 19 2.8 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Pars Distalis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 18 2.2 |
| Pars Distalis, Pigmentation | 2 | 2 | 2 | 2 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | 1 1.5 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 48 | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| C-cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 8 1.4 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|--------------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic Active | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 44 1.8 | |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

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

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|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| | 2 | 7 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 9 | 2 |
| | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 1 |
| 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 |
| 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 |
| 375 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 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 4 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | | 3 | 1 | | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | | 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineralization | | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1.1 |
| Germlinal Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 14.16 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1.6 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 4 | 4 | | | | | | | | | | | | | | | | | | | | | |
| | | | 4 | 4 | 4 | 4 | | | | | | | | | | | | | | | | | 3.7 |
| 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 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 7 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 9 | 2 | |
| | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 1 | 9 |
| 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 |
| 375 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 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Duct, Dilatation | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | 8 1.9 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 7 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 9 | 2 | |
| | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 1 | 9 |
| 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 |
| 375 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 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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**

Spinal Cord

+

1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic Active | | | | | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | 1 | 1 | 1 | | | | | 1 | | 24 | 1.3 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | 4 | | 3 | | 2 | 2 | | | | 3 | | | | | | | | | 13 | 2.4 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 1 | 1 | 1 | 1 | 34 | 1.1 |
| Perivascular, Infiltration Cellular, Lymphoid | | | | | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 2 | | | | 1 | 1 | 1 | 1 | 28 | 1.1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 | | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | X | X | | | 7 | |
| Inflammation, Suppurative | | 2 | | | | | | | | | | | | | | | | | 2 | 2 | | | 5 | 2.2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Thrombosis | | | | | | | | | 4 | 4 | | | | | 4 | | | 4 | | | | | 6 | 4.0 |
| Nasolacrimal Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | 2 | | 2 | | | 2 | | | | | | | | | 3 | 2.0 |
| Olfactory Epithelium, Degeneration | 1 | 1 | 2 | 2 | 1 | | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 26 | 1.2 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | 2 | 1 | | 2 | 2 | | | | | 2 | 2 | 2 | 1 | 2 | 1 | 2 | | 18 | 1.6 |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

SPECIAL SENSES SYSTEM

* ... 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. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 2 | 7 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 7 | 2 | 3 | 0 | 2 | 6 | 2 | 1 | 2 | 2 | 9 | 2 | | |
| | 8 | 1 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 8 | 7 | 7 | 9 | 8 | 4 | 5 | 7 | 4 | 9 | 0 | 8 | 7 | 1 | 9 | |
| 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 | |
| 375 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 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Harderian Gland
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 22 1.0 |
| Nephropathy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 45 2.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Renal Tubule, Accumulation, Hyaline
Droplet | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 49

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 2 | 2 | 2 | 2 | 0 | 2 | 5 | 2 | 2 | 9 | 2 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 9 | 7 | 8 | 6 | 8 | 4 | 7 | 8 | 2 | 7 | 4 | 3 | 8 | 7 | 7 | 7 | 7 | 8 | 1 | 7 | 7 | 0 | 7 | 8 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 750 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 | 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 | 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

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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1) Minimal 3) Moderate
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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

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5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| | 2 | 2 | 2 | 2 | 0 | 2 | 5 | 2 | 2 | 9 | 2 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 9 | 7 | 8 | 6 | 8 | 4 | 7 | 8 | 2 | 7 | 4 | 3 | 8 | 7 | 7 | 7 | 8 | 1 | 7 | 0 | 7 | 8 | 9 | 8 | 9 | 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 | 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 |
| 750 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 | 1 | 1 |
| | 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 | 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...) | |
| Mixed Cell Focus | | X | | | | | | X | X | | | | | X | X | X | | X | | X | X | X | | | | | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acinus, Atrophy | 2 | | 2 | | | | | | | | 1 | 1 | 1 | | | | | | 1 | 1 | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 0 | 2 | 5 | 2 | 2 | 9 | 2 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 9 | 7 | 8 | 6 | 8 | 4 | 7 | 8 | 2 | 7 | 4 | 3 | 8 | 7 | 7 | 7 | 7 | 1 | 7 | 7 | 0 | 7 | 8 | 9 | 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 | |
| 750 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 | |
| | 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 | |

males
(cont...)

ENDOCRINE SYSTEM

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

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TDMS No. 95011 - 07

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Route: GAVAGE

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

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Date Report Reqstd: 09/01/2006

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Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 0 | 2 | 5 | 2 | 2 | 9 | 2 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 9 | 7 | 8 | 6 | 8 | 4 | 7 | 8 | 2 | 7 | 4 | 3 | 8 | 7 | 7 | 7 | 8 | 1 | 7 | 0 | 7 | 8 | 9 | 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 | |
| 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 | |
| 750 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 | |
| | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 1 | | | | | 2 | 1 | 2 | | | | 1 | 2 | | 2 | | 2 | 1 | | | | | 2 | |
| Epithelium, Hyperplasia | 2 | | | | | | 1 | 1 | 1 | | | | 2 | 1 | | 2 | 1 | | 1 | 1 | | 2 | 2 | | |
| Epithelium, Hypertrophy | 1 | 1 | 1 | | | | | | | 2 | 2 | | | | 1 | 2 | 1 | | 1 | 2 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | 1 | 1 | 1 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Degeneration | | | | | | | 4 | | | | | | | 3 | | | | | | | | | | 4 | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hyperplasia | | | | | | | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | | | | | 4 | 4 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | 2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 0 | 2 | 5 | 2 | 2 | 9 | 2 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 9 | 7 | 8 | 6 | 8 | 4 | 7 | 8 | 2 | 7 | 4 | 3 | 8 | 7 | 7 | 7 | 8 | 1 | 7 | 0 | 7 | 8 | 9 | 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 | |
| 750 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 | |
| | 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...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bronchus, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | 2 | 2 | 1 | | 1 | 1 | 1 | 2 | 1 | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia,
Respiratory | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | X | X | | X | | | | | | | | | | | | | | | | 7 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | 7 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Basophilic Focus | X | X | X | X | X | X | X | X | | X | | X | X | X | X | X | X | X | X | 34 |
| Clear Cell Focus | X | X | | X | | X | | | X | | X | X | | X | | X | | X | | 20 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | 2 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | 7 1.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic Active | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 2 | 1 | 1 | 1 | 1 | 38 1.2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 58

1-4 .. Lesion qualified as:

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TDMS No. 95011 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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Lab: BAT

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
| | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 4 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 9 | 2 | 2 | 2 | 2 | | |
| | 8 | 9 | 0 | 7 | 8 | 7 | 8 | 3 | 4 | 9 | 7 | 1 | 1 | 9 | 8 | 9 | 7 | 8 | 3 | 7 | 4 | 8 | 8 | 9 | 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 | | |
| 750 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 | | |
| | 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 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | X | X | | X | | | | | | | | | | | X | | X | | X | | X | | X | | 17 | |
| Bile Duct, Hyperplasia | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | | 2 | | 3 | 1 | 2 | 2 | 3 | 2 | 3 | 1 | 1 | 2 | 1 | 3 | 2 | 48 2.0 |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 | |
| Hepatocyte, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.8 | |
| Hepatocyte, Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Hepatocyte, Vacuolization Cytoplasmic | 2 | 2 | | 1 | 1 | | 2 | | | 2 | | | 1 | 1 | | 1 | | 1 | | 1 | 1 | 2 | | 1 | 24 1.4 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Fat, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Fat, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Fat, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 | |
| Fat, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 23 1.5 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Atrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |

CARDIOVASCULAR SYSTEM

* ... 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

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|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 4 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 9 | 2 | 2 | 2 | 2 | |
| | 8 | 9 | 0 | 7 | 8 | 7 | 8 | 3 | 4 | 9 | 7 | 1 | 1 | 9 | 8 | 9 | 7 | 8 | 3 | 7 | 4 | 8 | 8 | 9 | 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 |
| 750 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 48 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Atrium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Valve, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 9 1.0 |
| Hyperplasia | 2 | 1 | | | 2 | 2 | | | 1 | | | | | | | | | | | | | | | 18 1.4 | |
| Hypertrophy | 1 | | 3 | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 28 1.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia | 2 | 1 | 2 | 2 | 2 | 1 | | | | | | | 1 | 1 | 2 | | | | | | | | | 1 | 13 1.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 48 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Angiectasis | | | | | | | 4 | 3 | | | | 2 | | 3 | | | | | | 3 | | 3 | 4 | 3 | 14 3.0 |
| Pars Distalis, Cyst | | | | | | | | | | | | 2 | 2 | | | | | | | 1 | | | | | 4 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 61

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
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TDMS No. 95011 - 07

Test Type: CHRONIC

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Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| FISCHER 344 RATS MALE
750 MG/KG | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|
| | | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 3 | 7 | 3 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 4 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 9 | 2 | 2 | 2 | 2 | 2 |
| | | 8 | 9 | 0 | 7 | 8 | 7 | 8 | 3 | 4 | 9 | 7 | 1 | 1 | 9 | 8 | 9 | 7 | 8 | 3 | 7 | 4 | 8 | 8 | 9 | 7 |
| Inflammation, Chronic Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Epithelium, Hyperplasia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Epithelium, Hypertrophy | 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 |
| 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 | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 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 | 1 | 2 |
| Germinal Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 2.0 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 16 3.6 |
| Lymph Node | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | 46 | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymphatic, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 3 | 7 | 3 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--------|
| | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 4 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 9 | 2 | 2 | 2 | 2 | |
| | 8 | 9 | 0 | 7 | 8 | 7 | 8 | 3 | 4 | 9 | 7 | 1 | 1 | 9 | 8 | 9 | 7 | 8 | 3 | 7 | 4 | 8 | 8 | 9 | 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 | |
| 750 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 | 2 | |
| | 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 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic Active | 2 | 1 | 2 | 2 | | 1 | 1 | 2 | 2 | | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 30 1.3 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolar Epithelium, Hyperplasia | | 2 | | | | | | | | | | | | | | 1 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 2 | 9 2.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | | 1 | 1 | | 1 | 2 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 36 1.1 |
| Bronchus, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bronchus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | 2 | | 1 | 1 | 1 | 1 | 2 | 2 | | | | | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 32 1.2 |
| Nose | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Foreign Body | | X | | | | X | | | | | | | | | | X | | | | | | | | | 9 |
| Inflammation, Suppurative | | 2 | | | | | | | 1 | | | | | | | | | | 1 | 2 | | | | 9 1.7 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | 2 | | | | | | | 5 1.6 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 2.0 | |
| Olfactory Epithelium, Degeneration | 1 | 2 | | 1 | 1 | 2 | 2 | 1 | | | 1 | | | | | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | 29 1.5 |
| Olfactory Epithelium, Metaplasia,
Respiratory | | | 1 | 2 | | 1 | | | | | | | | | | 2 | 2 | | 1 | 1 | | | | | 11 1.4 |
| Olfactory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Respiratory Epithelium, Hyperplasia | | 2 | 1 | | | | | | | | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | | 23 1.9 | |
| Respiratory Epithelium, Metaplasia,
Squamous | | | | | | | | | | 3 | | | | | | | | 2 | 2 | | | 2 | | 16 2.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 2.0 | |

SPECIAL SENSES SYSTEM

* .. 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

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TDMS No. 95011 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

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Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 3 | 7 | 3 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 4 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 9 | 2 | 2 | 2 | 2 | |
| | 8 | 9 | 0 | 7 | 8 | 7 | 8 | 3 | 4 | 9 | 7 | 1 | 1 | 9 | 8 | 9 | 7 | 8 | 3 | 7 | 4 | 8 | 8 | 9 | 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 |
| 750 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | |

*** END OF MALE DATA ***

* .. 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

Page 66

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TDMS No. 95011 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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5-(HYDROXYMETHYL)-2-FURFURAL

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Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 67

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

females
(cont...)

| | | |
|-----------------------------------|---|---|
| Mesentery | + | + |
| Fat, Fibrosis | 3 | 3 |
| Fat, Inflammation, Chronic Active | | |
| Fat, Mineralization | 2 | 1 |
| Fat, Necrosis | 4 | 4 |
| Pancreas | + | + |
| Aacinus, Atrophy | + | 1 |
| Salivary Glands | + | + |
| Stomach, Forestomach | + | + |
| Inflammation, Chronic Active | | |
| Epithelium, Hyperplasia | 2 | |
| Epithelium, Ulcer | | |
| Stomach, Glandular | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 4 |

* .. 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. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Requested: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

ENDOCRINE SYSTEM

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

+ .. Tissue examined microscopically

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BLANK .. Not examined microscopically

Page 69

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TDMS No. 95011 - 07

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Lab: BAT

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

females
(cont...)

Follicle, Cyst

2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |

2

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | |
| Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Accumulation, | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyaline Droplet | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | |

2

2

1

3

* .. 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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TDMS No. 95011 - 07

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Species/Strain: RATS/F 344

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Date Report Reqstd: 09/01/2006

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

females
(cont...)

Urinary Bladder

+ +

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

+ .. Tissue examined microscopically

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ALIMENTARY SYSTEM

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Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------|
| Mesentery | + | + | | | | | | | | | | | | | | | | | | | | | | 7 |
| Fat, Fibrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| Fat, Inflammation, Chronic Active | 3 | | | | | | | | | | | | | | | | | | | | | | | 5 3.0 |
| Fat, Mineralization | 2 | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Fat, Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | 7 4.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Acinus, Atrophy | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 10 1.7 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 1 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 2 2.5 |
| Epithelium, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 4 1 4.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 47 1.8 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |

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

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Lab: BAT

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 12 1.5 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.6 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 22 1.7 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 48 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 34 2.8 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.9 |
| Pars Distalis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 10 2.2 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 20 2.6 |
| Pars Distalis, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 27 1.6 |
| Pars Distalis, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Intermedia, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Intermedia, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 14 1.8 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | 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 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 |

Follicle, Cyst

1 2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | 10 3.1 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 | 12 2.0 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 11 | 3.4 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | 9 3.8 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 95011 - 07

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5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 1 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | | |
|----------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | 3 | 9 | 9 | 3 | 0 | 2 | 2 | 3 | 2 | 3 | 2 | 1 | 6 | 5 | 3 | 0 | 1 | 4 | 9 | 1 | 6 | 2 | 2 | 2 | 3 | |
| | 0 | 8 | 9 | 0 | 9 | 9 | 8 | 0 | 9 | 0 | 8 | 9 | 5 | 6 | 0 | 9 | 9 | 5 | 5 | 9 | 3 | 9 | 8 | 8 | 0 | |
| 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 | |
| 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 | 2 | 3 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | 48 | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | 17 3.9 |
| Duct, Dilatation | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 37 2.6 | |
| | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + .. Tissue examined microscopically | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x .. Lesion present | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I .. Insufficient tissue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M .. Missing tissue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A .. Autolysis precludes evaluation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLANK .. Not examined microscopically | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Page 79 | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 95011 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 1 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 9 | 9 | 3 | 0 | 2 | 2 | 3 | 2 | 3 | 2 | 1 | 6 | 5 | 3 | 0 | 1 | 4 | 9 | 1 | 6 | 2 | 2 | 3 |
| | 0 | 8 | 9 | 0 | 9 | 9 | 8 | 0 | 9 | 0 | 8 | 9 | 5 | 6 | 0 | 9 | 9 | 5 | 5 | 9 | 3 | 9 | 8 | 0 |
| 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 | 3 | 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 |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 31 1.3 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Alveolar Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | 11 2.4 |
| 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 | 45 1.0 |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 40 1.1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 34 1.9 |
| Olfactory Epithelium, Degeneration | 2 | | 2 | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | 21 1.2 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | 2 | 2 | 2 | 1 | | 2 | 1 | | 2 | 2 | 2 | | | | | | | 9 1.8 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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| DAY ON TEST | 7 | 1 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | | |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | 3 | 9 | 9 | 3 | 0 | 2 | 2 | 3 | 2 | 3 | 2 | 1 | 6 | 5 | 3 | 0 | 1 | 4 | 9 | 1 | 6 | 2 | 2 | 2 | 3 | |
| | 0 | 8 | 9 | 0 | 9 | 9 | 8 | 0 | 9 | 0 | 8 | 9 | 5 | 6 | 0 | 9 | 9 | 5 | 5 | 9 | 3 | 9 | 8 | 8 | 0 | |
| 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 | |
| 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 | 2 | 3 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | 2 | 2 | | 2 | | | | | | | | | 2 | 3 | | 1 | 1 | | | | 18 1.9 |
| Respiratory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lens, Cataract | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Retina, Degeneration | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | 1 | 2 | | 1 | 2 | 2 | | 1 | | 2 | | + | + | + | + | + | 1 | | 1 | | 1 | | | | 12 1.3 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| 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 | 28 1.0 | |
| Nephropathy | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 43 1.3 | |
| Cortex, Pelvis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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Urinary Bladder

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

† = Tissue examined microscopically

x Lesion present

| Insufficient tissue

M .. Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 6 | 5 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 8 | 7 | 2 | 5 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 6 | 7 | 3 | 2 |
| | 2 | 0 | 2 | 9 | 4 | 0 | 0 | 2 | 8 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 8 | 0 | 9 | 5 | 9 | 2 | 4 | 0 | 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 | 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 |
| 188 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 |
| | 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 |

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as

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

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 6 | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 8 | 7 | 2 | 5 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 6 | 7 | 3 |
| | 2 | 0 | 2 | 9 | 4 | 0 | 0 | 2 | 8 | 9 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 9 | 5 | 9 | 2 | 4 | 0 | 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 | 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 |
| 188 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 | 5 | 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...)

| | | |
|---------------------------------------|---|---|
| Hepatocyte, Fatty Change | 1 | 1 |
| Hepatocyte, Hyperplasia | | |
| Hepatocyte, Vacuolization Cytoplasmic | 4 | 3 |
| | 1 | 1 |
| | 1 | 2 |
| Mesentery | + | + |
| Fat, Fibrosis | 3 | 2 |
| Fat, Inflammation, Chronic Active | 3 | 3 |
| Fat, Mineralization | 2 | |
| Fat, Necrosis | 4 | 4 |
| | | |
| Oral Mucosa | + | |
| | | |
| Pancreas | + | + |
| Infiltration Cellular, Lymphoid | 4 | |
| Inflammation, Chronic Active | | |
| Acinus, Atrophy | 4 | 1 |
| Duct, Cyst | 2 | 1 |
| | | |
| Salivary Glands | + | + |
| | | |
| Stomach, Forestomach | + | + |
| Inflammation, Chronic Active | + | + |
| Epithelium, Ulcer | + | + |
| | | |
| Stomach, Glandular | + | + |
| | | |

CARDIOVASCULAR SYSTEM

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

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 6 | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 8 | 7 | 2 | 5 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 6 | 7 | 3 |
| | 2 | 0 | 2 | 9 | 4 | 0 | 0 | 2 | 8 | 9 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 9 | 5 | 9 | 2 | 4 | 0 | 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 | 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 |
| 188 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 | 5 | 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...)**

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | 1 | | 1 | 1 | | 1 | | 1 | | | | 1 | | | | 1 | 1 | | | | |
| Hyperplasia | | | | | 2 | | 2 | | | | | | | | 3 | | | | 3 | 2 | 2 | | | |
| Hypertrophy | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 1 | | 1 | 1 | | 2 | 1 | | | 3 | | | | | | 1 | | 1 | 2 | 1 | 1 | 3 | 2 | 1 |
| Bilateral, Hemorrhage | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | 2 | | | | | 2 | | | | | | | | | | | | 2 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | 4 | 2 | | | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | | 3 | 2 | 2 | 4 | 3 | | |
| Pars Distalis, Cyst | 1 | | | | | 3 | | | | | | | | | 2 | | | | 2 | 3 | | | | |
| Pars Distalis, Cyst, Multiple | | | | | | 3 | | | | | | | | | 2 | 4 | | 2 | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | 2 | 2 | | | | | | | 3 | | | | 2 | | | | |
| Pars Distalis, Pigmentation | 1 | 1 | | | 2 | | | 2 | 2 | | | | | | 2 | 1 | 1 | 2 | 1 | 2 | | 1 | 2 | |

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+ .. Tissue examined microscopically

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I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 95011 - 07

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Species/Strain: RATS/F 344

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 8 | 7 | 2 | 5 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 6 | 7 | 3 | 2 |
| | 2 | 0 | 2 | 9 | 4 | 0 | 0 | 2 | 8 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 8 | 0 | 9 | 5 | 9 | 2 | 4 | 0 | 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 | 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 |
| 188 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 |
| | 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 |

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

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

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 6 | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | |
| | 7 | 8 | 7 | 2 | 5 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 6 | 7 | 3 |
| | 2 | 0 | 2 | 9 | 4 | 0 | 0 | 2 | 8 | 9 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 9 | 5 | 9 | 2 | 4 | 0 | 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 | 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 |
| 188 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 | 5 | 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...)

Nasolacrimal Duct, Inflammation, Chronic

Olfactory Epithelium, Accumulation,
Hyaline Droplet

Olfactory Epithelium, Degeneration

Olfactory Epithelium, Metaplasia,
RespiratoryRespiratory Epithelium, Accumulation,
Hyaline Droplet

Respiratory Epithelium, Hyperplasia

Respiratory Epithelium, Metaplasia,
Squamous

Respiratory Epithelium, Necrosis

1 1

2 1 2 1

3 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

2 2 1

2

2

Trachea

+ +

SPECIAL SENSES SYSTEM

Ear

+

Eye

+ +

4

Atrophy

Lens, Cataract

Retina, Degeneration

Harderian Gland

+ +

Hyperplasia

Inflammation, Chronic Active

1

2

1

1

1

2

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 8 | 7 | 2 | 5 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 6 | 7 | 3 | 2 |
| | 2 | 0 | 2 | 9 | 4 | 0 | 0 | 2 | 8 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 8 | 0 | 9 | 5 | 9 | 2 | 4 | 0 | 8 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 188 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 |
| | 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 |

URINARY SYSTEM

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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Diverticulum | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | 6 |
| Intestine Small, Duodenum | X | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | | X | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | | | X | | | | | | | | | | | | | | | | | |
| Peyer's Patch, Hyperplasia, Lymphoid | | | | X | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 47 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | 2 |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | | | | | | | | | | 10 1.0 |
| Hepatodiaphragmatic Nodule | | X | | | | | | | | | | | | | | | | | | 8 |
| Inflammation, Chronic Active | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | 40 1.2 |
| Mixed Cell Focus | X | | | X | | | | | | | | | | | | | | | X | 13 |
| Bile Duct, Hyperplasia | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | 2 | | | | | | | | | 1 | | 22 1.1 |

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| .. Insufficient tissue

M .. Missing tissue

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Page 91

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TDMS No. 95011 - 07

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Lab: BAT

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | 1 | 1 | | | | | | | | | | | 1 | 14 1.0 |
| Hyperplasia | | 3 | 2 | | | | 2 | 2 | 2 | | | | | | | | | | 2 | 14 2.2 |
| Hypertrophy | | | | | | | 1 | | | | | | | | | | | 2 | 2 | 5 1.8 |
| Necrosis | | | | | | | 2 | | | | | | | | | | | | 1 | 1 2.0 |
| Vacuolization Cytoplasmic | | 2 | 2 | | 2 | | | 1 | 2 | | 1 | 1 | 4 | | 1 | 3 | | | 3 | 25 1.7 |
| Bilateral, Hemorrhage | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 47 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Pars Distalis, Angiectasis | 2 | 3 | 4 | 2 | 3 | 4 | | 4 | 4 | 3 | 4 | 2 | | 3 | 2 | 2 | 2 | 3 | 3 | 34 2.9 |
| Pars Distalis, Cyst | | | | | 2 | 3 | | | | | | | | | | | | | 2 | 9 2.3 |
| Pars Distalis, Cyst, Multiple | | | 2 | | | 2 | | | | | | | | | | | | | | 12 2.5 |
| Pars Distalis, Hyperplasia | | 2 | | | 3 | 2 | | | 3 | | | | | | | | | | | 13 2.4 |
| Pars Distalis, Pigmentation | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | | | | | 1 | 1 | 27 1.4 |

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 |
| | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 2 | 4 | 2 | 9 | 3 | 3 | 5 | 3 | 8 | 2 | 2 | 5 | 3 | 7 | 3 | 4 | 2 | 2 | 2 |
| | 9 | 9 | 8 | 9 | 8 | 0 | 9 | 9 | 6 | 9 | 2 | 0 | 0 | 3 | 0 | 9 | 9 | 0 | 0 | 9 | 0 | 9 | 9 | 9 | 9 | 9 |
| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 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 |
| 188 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 | 3 |
| | 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 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 3 | | | | 4 | | | | | | | | | | | | | | | | | | | | | 9 3.6 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Thymus | + | + | + | + | M | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | 3 | | | | | 4 | | | | | | | | | | | | | | | | | | | | 17 3.8 |
| Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Duct, Dilatation | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | | | | | | | | | | | | | | 40 2.4 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

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TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 |
| | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 2 | 4 | 2 | 9 | 3 | 3 | 5 | 3 | 8 | 2 | 2 | 5 | 3 | 7 | 3 | 4 | 2 | 2 |
| | 9 | 9 | 8 | 9 | 8 | 0 | 9 | 9 | 6 | 9 | 2 | 0 | 0 | 3 | 0 | 9 | 9 | 0 | 0 | 9 | 0 | 9 | 9 | 9 | 9 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 188 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 |
| | 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 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hydrocephalus | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | 1 | 1 | | | 1 | 1 | 2 | | 2 | 2 | 2 | 1 | | 2 | | 1 | 3 | 1 | 1 | 2 | 1 | | | | 30 1.4 | |
| Metaplasia, Osseous | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Alveolar Epithelium, Hyperplasia | | 2 | | | 2 | | 1 | | 2 | 1 | 2 | | | | | | 1 | | | | | | | | 10 1.6 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 46 1.0 | |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | | | 45 1.2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | 1 | | | | | | | | 3 1.3 | |
| Glands, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 95011 - 07

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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 2 | 4 | 2 | 9 | 3 | 3 | 5 | 3 | 8 | 2 | 2 | 5 | 3 | 7 | 3 | 4 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 9 | 8 | 9 | 8 | 0 | 9 | 9 | 6 | 9 | 2 | 0 | 0 | 3 | 0 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 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 | 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 | |
| 188 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 | 2 | 2 | 2 | 2 | 3 | |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Accumulation, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyaline Droplet | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|--------|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 12.1.4 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 95011 - 07

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Species/Strain: RATS/F 344

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Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 |
| DAY ON TEST | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 2 | 4 | 2 | 9 | 3 | 3 | 5 | 3 | 8 | 2 | 2 | 5 | 3 | 7 | 3 | 4 | 2 | 2 |
| | 9 | 9 | 8 | 9 | 8 | 0 | 9 | 9 | 6 | 9 | 2 | 0 | 0 | 3 | 0 | 9 | 9 | 0 | 0 | 9 | 0 | 9 | 9 | 0 | 9 |
| 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 |
| 188 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 17 1.1 |
| Nephropathy | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 42 1.2 | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 375 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 | 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 |

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 3 |
| | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 0 | 2 | 3 | 3 | 9 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 9 |
| | 0 | 9 | 8 | 9 | 0 | 9 | 7 | 1 | 0 | 3 | 8 | 0 | 8 | 4 | 0 | 2 | 0 | 9 | 7 | 0 | 9 | 8 | 8 | 9 | 0 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 375 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 | 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...)

Mineralization

Mixed Cell Focus

Bile Duct, Hyperplasia

Hepatocyte, Degeneration, Cystic

Hepatocyte, Vacuolization Cytoplasmic

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | X | X | 1 | 1 | 1 | 2 | X | 1 | 2 | 1 | X | 1 | 1 | 2 | 1 | X | 1 | 1 | 1 | X | 1 | 1 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Mesentery

Fat, Fibrosis

Fat, Inflammation, Chronic Active

Fat, Mineralization

Fat, Necrosis

Lymphatic, Angiectasis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |

Pancreas

Inflammation, Chronic Active

Acinus, Atrophy

Acinus, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |

Salivary Glands

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Stomach, Forestomach

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Stomach, Glandular

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

Blood Vessel

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

* ... 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. 95011 - 07

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 3 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 0 | 2 | 3 | 3 | 9 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 9 |
| | 0 | 9 | 8 | 9 | 0 | 9 | 7 | 1 | 0 | 3 | 8 | 0 | 8 | 4 | 0 | 2 | 0 | 9 | 7 | 0 | 9 | 8 | 8 | 9 | 0 | |
| 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 | |
| 375 MG/KG | 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 | |

**females
(cont...)**

Heart
Cardiomyopathy
Valve, Inflammation, Suppurative

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | 1 | | | | | | 1 | 1 | | 1 | | | | | | | | | 1 | | 1 | | |
| Hyperplasia | 1 | | | 2 | 2 | 2 | 1 | | | | | | | | | | | | | 1 | 2 | | | 2 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | 1 | 2 | 1 | 1 | | 1 | 2 | | | | | 1 | 3 | | | | 1 |

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Date Report Reqstd: 09/01/2006

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

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

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 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 | M |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Ectopic Thyroid | | | | | | | | | | | | | | | | | | | | | 2 | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 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 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 95011 - 07

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Route: GAVAGE

Species/Strain: RATS/F 344

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Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 3 |
| | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 0 | 2 | 3 | 3 | 9 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 9 |
| | 0 | 9 | 8 | 9 | 0 | 9 | 7 | 1 | 0 | 3 | 8 | 0 | 8 | 4 | 0 | 2 | 0 | 9 | 7 | 0 | 9 | 8 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| | 0 | 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 | 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 |
| 375 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 |
| | 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...)**MUSCULOSKELETAL SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Compression

Hydrocephalus

Peripheral Nerve

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Hemorrhage

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Inflammation, Chronic Active

Metaplasia, Osseous

Pigmentation

Alveolar Epithelium, Hyperplasia

Alveolus, Infiltration Cellular, Histiocyte

Perivascular, Infiltration Cellular, Lymphoid

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Foreign Body

* .. 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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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 7 | 7 | 4 | 6 | 7 | 6 | 7 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 3 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 0 | 2 | 3 | 3 | 9 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 9 |
| | 0 | 9 | 8 | 9 | 0 | 9 | 7 | 1 | 0 | 3 | 8 | 0 | 8 | 4 | 0 | 2 | 0 | 9 | 7 | 0 | 9 | 8 | 8 | 9 | 0 |
| 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 |
| 375 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 | 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 |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mineralization | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

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Lab: BAT

| DAY ON TEST | 5 | 0 | 7 | 5 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 4 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 5 | 5 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 2 | 7 | 3 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 3 | 0 | 6 | 0 | 3 | 1 | 2 | 2 | 4 | 2 | 1 | 8 | |
| | 7 | 5 | 8 | 5 | 0 | 6 | 6 | 7 | 2 | 9 | 9 | 8 | 0 | 5 | 2 | 3 | 0 | 9 | 8 | 9 | 1 | 8 | 2 | 9 | 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 |
| 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 |
| 375 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 |

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

CARDIOVASCULAR SYSTEM

Blood Vessel

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

+ .. Tissue examined microscopically

x Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

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

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 0 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 4 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 5 | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|------------|
| | 3 | 5 | 2 | 7 | 3 | 0 | 0 | 2 | 2 | 2 | 1 | 3 | 0 | 6 | 0 | 3 | 1 | 2 | 2 | 4 | 2 | 2 | 1 | 8 | |
| | 7 | 5 | 8 | 5 | 0 | 6 | 6 | 7 | 2 | 9 | 9 | 8 | 0 | 5 | 2 | 3 | 0 | 9 | 8 | 9 | 1 | 8 | 9 | 1 | 9 |
| 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 | |
| 375 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 | |
| | 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 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 46 | 1.8 |
| Valve, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 9 | 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 13.17 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 2 | 16.15 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Pars Intermedia,
Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 29.27 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | 11.19 |
| Pars Distalis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 3 | 14.21 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 20.24 |
| Pars Distalis, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 27.13 |

* .. 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. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 0 | 7 | 5 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 4 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 5 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 2 | 7 | 3 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 3 | 0 | 6 | 0 | 3 | 1 | 2 | 2 | 4 | 2 | 2 | 1 | 8 |
| | 7 | 5 | 8 | 5 | 0 | 6 | 6 | 7 | 2 | 9 | 9 | 8 | 0 | 5 | 2 | 3 | 0 | 9 | 8 | 9 | 1 | 8 | 2 | 9 | 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 |
| 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 |
| 375 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 |

Lymph Node 1

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
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TDMS No. 95011 - 07

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Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 0 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 4 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 5 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 5 | 2 | 7 | 3 | 0 | 0 | 2 | 2 | 2 | 1 | 3 | 0 | 6 | 0 | 3 | 1 | 2 | 2 | 4 | 2 | 2 | 1 | 8 |
| | 7 | 5 | 8 | 5 | 0 | 6 | 6 | 7 | 2 | 9 | 9 | 8 | 0 | 5 | 2 | 3 | 0 | 9 | 8 | 9 | 1 | 8 | 9 | 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 |
| 375 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 |
| | 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 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | 2 | | 1 | 1 | 1 | | | 2 | 2 | 2 | | 2 | | 2 | | 1 | 2 | | 1 | 1 | | | | 28 1.5 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pigmentation | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | 5 1.2 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 2 | | | 2 | | | | 2 | | | | | | | | | 10 2.3 |
| 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 | 46 1.0 |
| Perivascular, Infiltration Cellular, Lymphoid | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 43 1.3 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 49 |
| Foreign Body | | | | | | | | | | | | | | | | X | | | | | | | | 1 |

* .. 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. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 0 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 4 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 5 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--------|
| | 3 | 5 | 2 | 7 | 3 | 0 | 0 | 2 | 2 | 2 | 1 | 3 | 0 | 6 | 0 | 3 | 1 | 2 | 2 | 4 | 2 | 2 | 1 | 8 | |
| | 7 | 5 | 8 | 5 | 0 | 6 | 6 | 7 | 2 | 9 | 9 | 8 | 0 | 5 | 2 | 3 | 0 | 9 | 8 | 9 | 1 | 8 | 9 | 1 | 9 |
| 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 | |
| 375 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 | |
| | 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 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 1.0 |
| Glands, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Nasolacrimal Duct, Inflammation,
Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Nasolacrimal Duct, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 1.7 |
| Olfactory Epithelium, Accumulation,
Hyaline Droplet | | 2 | 1 | 2 | 2 | | | | | | | | | | | 1 | 2 | 2 | | | | | | | 22 1.5 |
| Olfactory Epithelium, Degeneration | 1 | 1 | 2 | 1 | | 1 | 2 | | 1 | 1 | 2 | 1 | | | | | | | 1 | 1 | 2 | | 1 | | 36 1.2 |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Respiratory Epithelium, Accumulation,
Hyaline Droplet | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 4 1.3 |
| Respiratory Epithelium, Hyperplasia | 2 | 2 | 2 | 2 | 2 | | 3 | 2 | | 3 | | 2 | 2 | 2 | | | | | 1 | | | | | | 21 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Harderian Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Inflammation, Chronic Active | 1 | | | | 1 | 1 | | | | | | | | | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 18 1.2 |
| Zymbal's Gland | | | | | | | | | | | | | | | | + | | | | | | | | 1 |

URINARY SYSTEM

| | | |
|--|---------------------------------------|-----------------------------|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | M .. Missing tissue | 1-4 .. Lesion qualified as: |
| + .. Tissue examined microscopically | A .. Autolysis precludes evaluation | 1) Minimal 3) Moderate |
| x .. Lesion present | BLANK .. Not examined microscopically | 2) Mild 4) Marked |
| I .. Insufficient tissue | Page 113 | |

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 5 | 0 | 7 | 5 | 7 | 7 | 6 | 4 | 7 | 7 | 4 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 5 | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| | 3 | 5 | 2 | 7 | 3 | 0 | 0 | 2 | 2 | 2 | 1 | 3 | 0 | 6 | 0 | 3 | 1 | 2 | 2 | 4 | 2 | 2 | 1 | 8 | |
| | 7 | 5 | 8 | 5 | 0 | 6 | 6 | 7 | 2 | 9 | 9 | 8 | 0 | 5 | 2 | 3 | 0 | 9 | 8 | 9 | 1 | 8 | 9 | 1 | 9 |
| 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 | |
| 375 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 | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | | | | 19 1.1 |
| Nephropathy | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 39 1.1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. 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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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 4 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 1 | 5 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 2 | 7 |
| | 0 | 9 | 0 | 9 | 0 | 4 | 9 | 9 | 9 | 0 | 9 | 8 | 8 | 0 | 6 | 0 | 8 | 8 | 5 | 9 | 2 | 9 | 9 | 9 | 9 |
| 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 |
| 750 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 |
| | 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 |

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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TDMS No. 95011 - 07

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 4 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 1 | 5 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 2 | 7 |
| | 0 | 9 | 0 | 9 | 0 | 4 | 9 | 9 | 9 | 0 | 9 | 8 | 0 | 6 | 0 | 8 | 5 | 9 | 2 | 9 | 9 | 9 | 9 | 9 |
| 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 |
| 750 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 | 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...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 1 | 2 | 1 | 1 | | 2 | 1 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| Atrium, Thrombosis | | | 4 | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Karyomegaly | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Vacuolization Cytoplasmic | | | | | | 2 | 2 | | | 1 | 1 | 1 | | 1 | | 1 | 2 | | 2 | 2 | 2 | 2 | 1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Infiltration Cellular, Lymphoid | | | | | | | | | | | | | | | | | | | 2 | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Pars Intermedia,
Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | 2 | 2 | 4 | 2 | 2 | 2 | | 2 | | 3 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 1 | 4 | 3 | 3 | 4 | 3 | | |
| Pars Distalis, Cyst | | | 2 | | 1 | | | 2 | | 2 | | | | | | | 2 | 2 | | | | | | | |
| Pars Distalis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 95011 - 07

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

GENERAL BODY SYSTEM

Tissue NOS +

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Lab: BAT

| DAY ON TEST | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 4 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 1 | 5 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 2 | 7 |
| | 0 | 9 | 0 | 9 | 0 | 4 | 9 | 9 | 9 | 0 | 9 | 8 | 8 | 0 | 6 | 0 | 8 | 5 | 9 | 2 | 9 | 9 | 9 | 9 |
| 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 |
| 750 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 | 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...)

Endometrium, Cyst

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | 4 |
| 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 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Thymus | M | + | + | M | + | + | + | M | + | + | M | M | + | + | + | + | + | + | M | + | + | + | + | + | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Dilatation | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | |

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

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TDMS No. 95011 - 07

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 4 |
| | 3 | 1 | 5 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 2 | 7 |
| | 0 | 9 | 0 | 9 | 0 | 4 | 9 | 9 | 9 | 0 | 9 | 8 | 0 | 6 | 0 | 8 | 5 | 9 | 2 | 9 | 9 | 9 | 9 | 9 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 750 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 | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Inflammation,
Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | | 3 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Bronchus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchus, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | |

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

+ .. Tissue examined microscopically

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TDMS No. 95011 - 07

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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 4 |
| | 3 | 1 | 5 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 2 | 7 |
| | 0 | 9 | 0 | 9 | 0 | 4 | 9 | 9 | 9 | 0 | 9 | 8 | 0 | 6 | 0 | 8 | 5 | 9 | 2 | 9 | 9 | 9 | 9 | 9 |
| 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 |
| | 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 | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | X | | | | X | X | X | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | | | | 2 | | | 1 | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Inflammation,
Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Nasolacrimal Duct, Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 3 | 3 | 1 | | 2 | | | | 2 | 1 | | 1 | 1 | | | | | 1 | 2 | | | | | | |
| Olfactory Epithelium, Metaplasia,
Respiratory | 2 | | | | | 1 | 2 | 2 | | | | | | 1 | 2 | | | | | 3 | | | | | |
| Olfactory Epithelium, Metaplasia,
Squamous | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | | | | | | | 1 | | 1 | 2 | | | 3 | 2 | 3 | | |
| Respiratory Epithelium, Metaplasia,
Squamous | 3 | 2 | 1 | 2 | 2 | 2 | | 3 | 2 | | 1 | | | | | | | 3 | 2 | 3 | 2 | | | | |
| Respiratory Epithelium, Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | |
|----------------------|-------|
| Ear | |
| Eye | |
| Lens, Cataract | + |
| Retina, Degeneration | + |

* ... 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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| DAY ON TEST | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 4 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 1 | 5 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 2 | 7 |
| | 0 | 9 | 0 | 9 | 0 | 4 | 9 | 9 | 9 | 0 | 9 | 8 | 8 | 0 | 6 | 0 | 8 | 8 | 5 | 9 | 2 | 9 | 9 | 9 |
| 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 |
| | 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 | 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 |

Harderian Gland
Inflammation, Chronic Active

females (cont...)

URINARY SYSTEM

Kidney
Inflammation, Chronic Active
Mineralization
Nephropathy
Cortex, Cyst

Urinary Bladder

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 49 | |
| | | | | | X | | | | | | X | | | | | | X | + | X | + | 4 | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | 50 | |
| | | | | | | | | | | | | | | | | | X | + | + | 3 | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 49 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 49 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 49 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 49 | |
| Angiectasis | | | | | | | | | | | | | | | | | 1 | | | | 2 1.0 | |
| Basophilic Focus | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 42 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | 4 1.0 | |
| Hepatodiaphragmatic Nodule | X | | | X | | X | | | X | | | | | | | X | | | | | 7 | |
| Inflammation, Chronic Active | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | X | 2 | 1 | 2 | 1 | 1 | 39 1.2 |
| Mixed Cell Focus | | | X | | | X | X | | | | | | | | | X | | | | | 8 | |
| Bile Duct, Hyperplasia | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | | | 2 | | | | 2 | 1 | | | 1 | 1 | 24 1.2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Requested: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | 7 | 4 | 7 | 0 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 1 | 7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST | 3 | 5 | 2 | 0 | 9 | 3 | 9 | 3 | 2 | 3 | 2 | 7 | 6 | 2 | 3 | 3 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 9 | 2 |
| | 0 | 9 | 9 | 9 | 4 | 0 | 5 | 0 | 9 | 0 | 9 | 4 | 2 | 8 | 0 | 0 | 9 | 5 | 9 | 3 | 3 | 3 | 9 | 0 | 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 | 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 |
| 750 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 | 4 |
| | 7 | 7 | 7 | 7 | 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 |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Hepatocyte, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatocyte, Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Fat, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 8 2.9 |
| Fat, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.6 |
| Fat, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.4 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 9 4.0 |
| Fat, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | 10 1.5 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | 3 2.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | 1 | | | | | | 3 2.7 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Epithelium, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |

CARDIOVASCULAR SYSTEM

Blood Vessel

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| DAY ON TEST | 7 | 4 | 7 | 0 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 1 | 7 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 5 | 2 | 0 | 9 | 3 | 9 | 3 | 2 | 3 | 2 | 7 | 6 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 9 | 2 | |
| | 0 | 9 | 9 | 9 | 4 | 0 | 5 | 0 | 9 | 0 | 9 | 4 | 2 | 8 | 0 | 0 | 9 | 5 | 9 | 3 | 3 | 9 | 0 | 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 | 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 |
| 750 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 | 8 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 47 | 1.8 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | 7 | 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Karyomegaly | | | | | | | | | | | | | | | | | | | | | | 20 | 1.4 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 |
| Infiltration Cellular, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Parathyroid Gland | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Pars Intermedia,
Pigmentation | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pars Distalis, Angiectasis | 3 | 2 | | | 3 | 2 | 4 | | | 3 | 3 | 4 | 4 | 3 | | 2 | 3 | 2 | 4 | 3 | 2 | 3 | 34 2.8 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | 7 | 2.1 |
| Pars Distalis, Cyst, Multiple | 2 | | | | | | | | | 2 | 3 | 2 | | | | | | | | | | 3 | 9 2.2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U

Date Report Registered: 09/01/2006

Time Report Requested: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

Endometrium, Cyst

4

14.0

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Bone Marrow
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 8 | 3.5 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| 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 | 0 | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 49 | | |
| Spleen
Accessory Spleen
Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 49 | 1 | 2.0 |
| Thymus
Ectopic Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 43 | 1 | 2.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 4.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | 17 | 3.8 |
| Galactocele | | | 4 | | | | 4 | | | 4 | | | | | | | | | | | 38 | 2.2 |
| Duct, Dilatation | 2 | 3 | 2 | | 3 | 2 | 2 | 2 | 2 | 3 | | 2 | 3 | 2 | 2 | 3 | | 2 | 2 | 3 | 1 | 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

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BLANK .. Not examined microscopically

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Date Report Reqstd: 09/01/2006

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First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 4 | 7 | 0 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 1 | 7 |
| | 3 | 5 | 2 | 0 | 9 | 3 | 9 | 3 | 2 | 3 | 2 | 7 | 6 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 9 | 2 |
| | 0 | 9 | 9 | 9 | 4 | 0 | 5 | 0 | 9 | 0 | 9 | 4 | 2 | 8 | 0 | 0 | 9 | 5 | 9 | 3 | 3 | 9 | 0 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 750 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 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Subcutaneous Tissue, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 4 3.3 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic Active | 1 | 2 | | | 1 | 2 | 3 | 1 | | 1 | 3 | 1 | | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 37 1.7 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 8 2.4 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 37 1.1 |
| Bronchus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 |
| Bronchus, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Perivascular, Infiltration Cellular, Lymphoid | 1 | 1 | | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 42 1.2 |

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

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x .. Lesion present

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 | |
| ANIMAL ID | 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 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| 750 MG/KG | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 49 | |
| Foreign Body | | | | | | | | | | | | | | | X | | | | | | | | 8 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 2 | | | | | | | | 8 | 1.5 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | 2 | | | | | | | | 7 | 1.4 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Nasolacrimal Duct, Inflammation,
Suppurative | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Nasolacrimal Duct, Inflammation, Chronic | 1 | 2 | | | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 12 | 2.0 |
| Olfactory Epithelium, Degeneration | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 28 | 1.3 |
| Olfactory Epithelium, Metaplasia,
Respiratory | | | | | | | | | | | | | | | 2 | 2 | 1 | | | | | | 11 | 1.8 |
| Olfactory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | 20 | 2.1 |
| Respiratory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | 1 | | | | | | | | 24 | 2.1 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Ear | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

Date Report Reqstd: 09/01/2006

Time Report Reqstd: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| | 7 | 4 | 7 | 0 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 1 | 7 | |
| | 3 | 5 | 2 | 0 | 9 | 3 | 9 | 3 | 2 | 3 | 2 | 7 | 6 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 9 | 2 |
| | 0 | 9 | 9 | 9 | 4 | 0 | 5 | 0 | 9 | 0 | 9 | 4 | 2 | 8 | 0 | 0 | 9 | 5 | 9 | 3 | 3 | 3 | 9 | 0 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 750 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 | 8 | 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 | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 3 | 1 | | | | | | 1 | 2 | | | | | | | 1 | | 1 | | | 1 | | 15 | 1.4 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 49 |
| Inflammation, Chronic Active | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mineralization | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 25 1.0 |
| Nephropathy | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | 35 1.2 |
| Cortex, Cyst | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

*** END OF REPORT ***

* .. 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