

TDMS No. 05094 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
BUTYL BENZYL PHTHALATE
CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:43:22
First Dose M/F: 06/26/89 / 06/26/89
Lab: SRI

C Number: C54375C
Lock Date: 11/25/1992
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.7.0

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

males
(cont...)

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nephropathy	2	2	1	2	1	2	2		1	3	1	1	4	3	3	2	2	1	3	3	2	1	2	3	1
Renal Tubule, Pigmentation	1	1	1	2	4	2	1	1	1	1	1	3	2	1	1	1	2	1	2	1	3	2	1	1	1
Transitional Epithelium, Hyperplasia						1							1					1		1					
Urethra										+															
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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x .. Lesion present

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

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Edema														2										
Ulcer																								
Intestine Large, Colon	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	M	+	+	+
Dilatation																								
Parasite Metazoan											X	X												
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan				X							X							X				X		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Basophilic Focus	X		X		X	X		X		X		X					X			X	X	X		X
Clear Cell Focus				X		X				X	X							X		X	X	X		
Degeneration, Cystic							2						1											
Eosinophilic Focus									X															
Hepatodiaphragmatic Nodule																						X		

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	7	6	7	7	7	6	7	7	7	7	7	7	2	5	6	6	7	7	5	7	7	7	6	4	
	2	3	3	2	3	7	3	2	1	3	2	2	2	6	6	6	1	2	2	7	2	3	3	1	5
	9	1	0	9	0	7	0	9	8	0	9	9	9	1	2	2	4	9	9	6	9	0	1	1	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
UNTREATDCONTROL	0	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	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
Mixed Cell Focus							X	X	X																
Bile Duct, Hyperplasia	4	2	2	2		3	1	2	3	2		2	3		3	4		1		2	1	2	2	3	
Centrilobular, Necrosis																									
Hepatocyte, Vacuolization														3					3					3	
Cytoplasmic Kupffer Cell, Pigmentation																								3	
Lobules, Necrosis														2											
Mesentery							+	+											+					+	
Angiectasis																									
Fibrosis																									
Fat, Necrosis								3											3					3	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	1	1		3	2	2		1					3	1		2		1	2		1	2	2	3	1
Acinus, Cytoplasmic Alteration																									
Acinus, Hyperplasia, Focal				2				3																	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																									
Ulcer																									
Mucosa, Hyperplasia																									
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																									
Erosion																									3
Ulcer																									

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

males
(cont...)

CARDIOVASCULAR SYSTEM

Blood Vessel Hypertrophy Inflammation, Subacute	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart Cardiomyopathy Thrombosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
			2	2	2	3		3	3		3	3	3	1		2	2		3	2	3	1	3	3	1
						X								X											

ENDOCRINE SYSTEM

Adrenal Cortex Accessory Adrenal Cortical Nodule Degeneration, Fatty Hemorrhage Hyperplasia, Focal Hypertrophy, Focal Vacuolization Cytoplasmic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
					1			2						2			2	3				2		
				1								1				2		1		1	1			
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2				2		1												2			1		
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

males
(cont...)

Inflammation, Chronic	2			2	2	2			2	3		2						2	2	2	2	2	2	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Corpora Amylacea						2	2			2	3		2	2		2		2		3				
Inflammation, Suppurative	1	3	3	2	3	1	2				1	1		1		2		2	2		1			
Epithelium, Hyperplasia			2																			1		2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation						3							3											
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Interstitial Cell, Hyperplasia																								
Seminiferous Tubule, Atrophy																								

HEMATOPOIETIC SYSTEM

Blood																								
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypercellularity																								
Myelofibrosis																								3
Lymph Node	+			+		+				+			+	+					+		+		+	
Deep Cervical, Hemorrhage																								
Deep Cervical, Pigmentation																								
Iliac, Hemorrhage																								
Iliac, Hyperplasia, Lymphoid																								
Iliac, Pigmentation																								3

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	2	3	3	2	3	7	3	2	1	3	2	2	2	6	6	6	1	2	2	7	2	3	3	1	5
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	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Mediastinal, Hemorrhage								3			3			3										3	
Mediastinal, Pigmentation							3				3														
Renal, Hyperplasia, Lymphoid																									
Renal, Pigmentation																								3	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Congestion															3										
Ectasia								2		2					3						2				
Hemorrhage																									
Hyperplasia, Lymphoid								3										3							
Pigmentation																								2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia															3			4	2						
Hemorrhage																									
Hyperplasia, Lymphoid																		3							
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis						3												4				2	2		
Hematopoietic Cell Proliferation										3												2			
Metaplasia, Osseous	4																								
Necrosis																									
Pigmentation, Hemosiderin										1		2	2		2	1	1	2	3	2			2	1	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																									
Hemorrhage																								3	

males
(cont...)

INTEGUMENTARY SYSTEM

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	4	4	4	4	4	4	4	4	4	4
	5	5	3	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	60
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	57
Edema				3							4 2.5
Ulcer											1 4.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	54
Dilatation											1 3.0
Parasite Metazoan						X					6
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	59
Parasite Metazoan			X	X	X						12
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	59
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	59
Liver	+	+	+	+	+	+	+	+	+	+	60
Angiectasis									1		1 1.0
Basophilic Focus	X	X	X		X	X		X			28
Clear Cell Focus		X						X			17
Degeneration, Cystic											7 1.9
Eosinophilic Focus						X		X	X		6
Hepatodiaphragmatic Nodule	X							X	X		4

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

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4		
	5	5	3	5	5	5	5	5	5	5		
	8	8	8	8	8	8	8	8	8	8		
.....												
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0		
											* TOTALS	
Mixed Cell Focus											6	
Bile Duct, Hyperplasia	1						2	2	1	1	44	2.2
Centrilobular, Necrosis											1	2.0
Hepatocyte, Vacuolization Cytoplasmic							2			8	2.3	
Kupffer Cell, Pigmentation							3			2	3.0	
Lobules, Necrosis											2	2.0
.....												
Mesentery							+	+	+			11
Angiectasis											1	3.0
Fibrosis							3			1	3.0	
Fat, Necrosis							3	3	2	9	3.0	
.....												
Pancreas	+	+	+	+	+	+	+	+	+	+	60	
Atrophy					1				1	1	32	1.5
Acinus, Cytoplasmic Alteration											1	3.0
Acinus, Hyperplasia, Focal											4	2.5
.....												
Salivary Glands	+	+	+	+	+	+	+	+	+	+	60	
.....												
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	60	
Edema											1	2.0
Ulcer											2	4.0
Mucosa, Hyperplasia											2	2.5
.....												
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	60	
Edema											2	2.0
Erosion											2	2.5
Ulcer											2	2.0

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 Page 21

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	60	
Hypertrophy												2 2.0
Inflammation, Subacute												2 2.5
Heart	+	+	+	+	+	+	+	+	+	+	60	
Cardiomyopathy	2	2		2		2	1	1		2		40 2.2
Thrombosis												2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60	
Accessory Adrenal Cortical Nodule				2	X	X		X				15 1.8
Degeneration, Fatty												3 1.0
Hemorrhage												1 2.0
Hyperplasia, Focal	2											8 1.3
Hypertrophy, Focal												2 1.5
Vacuolization Cytoplasmic												1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	60	
Hyperplasia												6 1.8
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	60	
Hyperplasia												3 2.0
Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	58	

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	4	4	4	4	4	4	4	4	4	4
	5	5	3	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

Pituitary Gland	M	+	+	+	+	+	+	+	+	+	59	
Pars Distalis, Angiectasis												3 2.7
Pars Distalis, Cyst							X					4
Pars Distalis, Hyperplasia												1 3.0
Pars Distalis, Hyperplasia, Focal		1				1			2			10 1.9
Pars Intermedia, Angiectasis												3 3.0
Pars Intermedia, Cyst												1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	60	
Ultimobranchial Cyst												2
C-cell, Hyperplasia												4 2.8
Follicle, Cyst												2

GENERAL BODY SYSTEM

Tissue NOS											1
------------	--	--	--	--	--	--	--	--	--	--	----------

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	60	
Atypia Cellular						X						29 3.0
Hypospermia												34 3.1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	60	
Ectasia												11 2.4
Hyperplasia												1 3.0
Inflammation, Suppurative		3										11 2.4

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4		
	5	5	3	5	5	5	5	5	5	5		
	8	8	8	8	8	8	8	8	8	8		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0		
												* TOTALS
Inflammation, Chronic												31 2.1
Prostate	+	+	+	+	+	+	+	+	+	+		60
Corpora Amylacea												18 2.3
Inflammation, Suppurative												34 2.0
Epithelium, Hyperplasia												5 1.8
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+		60
Dilatation												4 3.3
Testes	+	+	+	+	+	+	+	+	+	+		60
Interstitial Cell, Hyperplasia												9 1.8
Seminiferous Tubule, Atrophy												2 3.0
HEMATOPOIETIC SYSTEM												
Blood												1
Bone Marrow	+	+	+	+	+	+	+	+	+	+		60
Hypercellularity												1 4.0
Myelofibrosis												2 3.5
Lymph Node												25
Deep Cervical, Hemorrhage												1 4.0
Deep Cervical, Pigmentation												1 4.0
Iliac, Hemorrhage												1 2.0
Iliac, Hyperplasia, Lymphoid												1 3.0
Iliac, Pigmentation												1 3.0

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	4	4	4	4	4	4	4	4	4	
	5	5	3	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
Mediastinal, Hemorrhage		2				3					7 2.7
Mediastinal, Pigmentation		3				3					7 3.0
Renal, Hyperplasia, Lymphoid											1 3.0
Renal, Pigmentation											2 3.0
Lymph Node, Mandibular Congestion	+	+	+	+	+	+	+	+	+	+	59
Ectasia											1 3.0
Hemorrhage								2	1		6 2.3
Hyperplasia, Lymphoid									2		6 1.8
Pigmentation											4 2.5
											2 2.0
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	60
Hemorrhage				2							7 2.9
Hyperplasia, Lymphoid											1 3.0
											2 3.0
Spleen Fibrosis	+	+	+	+	+	+	+	+	+	+	60
Hematopoietic Cell Proliferation	1						1				5 2.6
Metaplasia, Osseous											4 1.8
Necrosis											1 4.0
Pigmentation, Hemosiderin	1	1	1	1	1	1	1	1	1	1	1 3.0
											24 1.5
Thymus Cyst	+	+	+	+	+	+	+	+	+	+	59
Hemorrhage							X				1
											1 3.0

INTEGUMENTARY SYSTEM

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

Mammary Gland	+	+	+	+	+	+	+	+	+	+	55
Hyperplasia			3								10 2.2
Skin	+	+	+	+	+	+	+	+	+	+	60
Inflammation, Focal, Chronic											1 2.0
Metaplasia, Osseous											1 2.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	60
Cranium, Osteopetrosis											1 2.0
Femur, Osteopetrosis				3							1 3.0
Skeletal Muscle			+								1

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60
Compression			X								4 3.3
Hydrocephalus			3								2 3.0
Mineralization			1								1 1.0
Peripheral Nerve											3
Spinal Cord											2

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Page 26

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	60	
Congestion												1 2.0
Hemorrhage		1										1 1.0
Infiltration Cellular, Histiocyte		1				1						15 1.4
Inflammation, Suppurative												1 1.0
Inflammation, Subacute												1 3.0
Metaplasia, Osseous												1 1.0
Alveolar Epithelium, Hyperplasia		3										8 2.0
.....												
Nose	+	+	+	+	+	+	+	+	+	+	60	
Exudate												17
Foreign Body												8 2.1
Fungus												12 3.0
Mucosa, Hyperplasia												11 2.3
Mucosa, Metaplasia, Squamous												9 2.4
.....												
Trachea	+	+	+	+	+	+	+	+	+	+	60	

SPECIAL SENSES SYSTEM

Ear											2	
.....												
Eye											1	
Atrophy												1 4.0

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

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	60
Nephropathy	2	1	3	1	1	1	2	2	1	2	58 2.0
Renal Tubule, Pigmentation	1	1	1	1	1	1	1	1	1	1	59 1.4
Transitional Epithelium, Hyperplasia											6 1.0
Urethra											1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	60

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Page 28

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DAY ON TEST	0 0																								
	6 7 3 4 7 7 7 4 6 6 4 6 7 6 7 7 6 6 7 6 7 7 6 6 4																								
FISCHER 344 RATS MALE 0.3% ANIMAL ID	7 3 0 9 3 3 3 5 0 0 9 2 3 4 2 3 0 2 3 9 3 3 0 4 7																								
	8 0 3 9 1 0 0 0 7 7 9 6 1 9 3 1 1 7 0 8 1 0 7 5 7																								
0.3% ANIMAL ID	0 0																								
	0 0																								
0.3% ANIMAL ID	0 0																								
	6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8																								
																									males (cont...)

Epithelium, Hyperplasia

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	+ +																								
Accessory Adrenal Cortical Nodule	1 1 2 2 1 1																								
Angiectasis	2																								
Degeneration, Fatty	1 1																								
Hyperplasia, Focal	1 2																								
Hypertrophy	2																								
Hypertrophy, Focal																									
Adrenal Medulla	+ +																								
Hyperplasia	2 3 1 3 1 2																								
Islets, Pancreatic	+ + + M + + + + + + + + + + + + + + + + + + +																								
Hyperplasia																									
Metaplasia, Hepatocyte	1																								

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 Page 31

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 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
0.3%		6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	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...)

Inflammation, Chronic																									
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Corpora Amylacea	2	2		2	2					2		2	2	2					2		2	2			
Hemorrhage																									
Inflammation, Suppurative			1	2	3	1		3	4	1	4	3	1			3			2	3		1	3	3	1
Epithelium, Hyperplasia																						2	2		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation																									3
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																									
Interstitial Cell, Hyperplasia	1							2		1															
Seminiferous Tubule, Atrophy	3																								

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypercellularity																									2
Myelofibrosis										2															3
Lymph Node																									
Mediastinal, Hemorrhage																									4
Mediastinal, Pigmentation																									
Pancreatic, Hemorrhage																									
Renal, Pigmentation																									

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0 0																								
	6 7 3 4 7 7 7 4 6 6 4 6 7 6 7 7 6 6 7 6 7 7 6 6 4																								
FISCHER 344 RATS MALE 0.3% ANIMAL ID	7 3 0 9 3 3 3 5 0 0 9 2 3 4 2 3 0 2 3 9 3 3 0 4 7																								
	8 0 3 9 1 0 0 0 7 7 9 6 1 9 3 1 1 7 0 8 1 0 7 5 7																								
ANIMAL ID	0 0																								
	0 0																								
0.3%	0 0																								
	6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8																								
	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...)

Inflammation, Subacute
 Metaplasia, Osseous
 Alveolar Epithelium, Hyperplasia

Nose	+ +																								
Exudate	X																								
Foreign Body	X																								
Fungus	2																								
Mucosa, Hyperplasia	2 1 2																								
Mucosa, Metaplasia, Squamous	2																								

Trachea +

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM

Kidney	+ +																								
Cyst	X																								
Inflammation, Suppurative	1 1																								
Mineralization																									
Nephropathy	3 3 3 3 3 3 1 1 1 2 2 2 1 1 2 2 2 2 3 3 2 3 3 1																								
Papilla, Inflammation, Suppurative																									
Papilla, Necrosis																									
Renal Tubule, Atrophy	3																								
Renal Tubule, Dilatation																									
Renal Tubule, Pigmentation	1 2 1 1 1 1 1 3 2 1 1 1 1 2 1 2 2 2 2 2 1 2 1 1																								

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 + .. Tissue examined microscopically
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 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0																							
	5 7 7 5 7 5 7 5 7 7 7 7 7 7 5 7 6 6 6 7 5 5 7 7 5																							
FISCHER 344 RATS MALE 0.3% ANIMAL ID	8 3 3 1 0 4 2 6 3 3 3 3 3 3 6 3 9 1 4 0 4 5 3 3 8																							
	4 0 1 9 8 4 3 5 1 0 0 0 0 0 1 9 1 4 1 4 8 1 0 0 1 6																							
ANIMAL ID	0 0																							
	0 0																							
0.3%	8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 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																							

males
(cont...)

Lymph Node, Mandibular Congestion	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																								
Hemorrhage																								
Hyperplasia, Lymphoid Pigmentation																								
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																								
Hyperplasia, Lymphoid																								
Spleen Developmental Malformation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis																								
Hematopoietic Cell Proliferation																								
Hemorrhage																								
Pigmentation, Hemosiderin																								
Lymphoid Follicle, Atrophy																								
Thymus Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0 0																							
	5 7 7 5 7 5 7 5 7 7 7 7 7 7 5 7 6 6 6 7 5 5 7 7 5																							
FISCHER 344 RATS MALE ANIMAL ID	8 3 3 1 0 4 2 6 3 3 3 3 3 3 6 3 9 1 4 0 4 5 3 3 8																							
	4 0 1 9 8 4 3 5 1 0 0 0 0 0 1 9 1 4 1 4 8 1 0 0 1 6																							
0.3%	0 0																							
	0 0																							
	0 0																							
	8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 1																							
	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																							

males
(cont...)

Inflammation, Subacute	3																								2	3
Metaplasia, Osseous																									1	
Alveolar Epithelium, Hyperplasia	2																									1

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exudate							X		X		X	X													X	X
Foreign Body												2												2		2
Fungus							4		3															3		3
Mucosa, Hyperplasia							2						1	2										2		
Mucosa, Metaplasia, Squamous							2		3															2		2

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst												X														
Inflammation, Suppurative																										1
Mineralization																										1
Nephropathy	2	4	1	1	1	1	3	2	3	3	1	2	3	2	2	3	2							2	2	3
Papilla, Inflammation, Suppurative																									3	
Papilla, Necrosis																									4	
Renal Tubule, Atrophy																										
Renal Tubule, Dilatation																									2	
Renal Tubule, Pigmentation	3	1	2	2	1	1	2	2	2	1	3	3	1	1	1	2	1							1	1	2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 I .. Insufficient tissue
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.3%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

ALIMENTARY SYSTEM

Esophagus	M	+	+	+	+	+	+	+	+	+	59	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	60	
Edema												2 2.0
Parasite Metazoan	X											2
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	58	
Parasite Metazoan												3
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	60	
Parasite Metazoan												5
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60	
Erosion												1 3.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	60	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	60	
Liver	+	+	+	+	+	+	+	+	+	+	60	
Angiectasis												2 2.0
Basophilic Focus	X				X		X			X		24
Clear Cell Focus	X			X								10
Degeneration, Cystic												7 2.0
Eosinophilic Focus					X							9
Granuloma										1		1 1.0

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 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.3%	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
.....											
Hematopoietic Cell Proliferation											2 1.5
Hepatodiaphragmatic Nodule											4
Inflammation, Subacute						1					1 1.0
Mixed Cell Focus							2	X			5 2.0
Bile Duct, Hyperplasia				1	1				1	1	45 2.0
Centrilobular, Necrosis											4 2.8
Hepatocyte, Hyperplasia, Focal											1 3.0
Hepatocyte, Vacuolization Cytoplasmic											2 3.0
Kupffer Cell, Pigmentation											1 2.0
.....											
Mesentery	+						+				15
Accessory Spleen											3
Fat, Necrosis	3						3				10 2.6
.....											
Oral Mucosa											1
.....											
Pancreas	+	+	+	+	+	+	+	+	+	+	59
Atrophy	1			1	1	2					37 1.6
Acinus, Hyperplasia, Focal											7 2.1
.....											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	60
.....											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	60
Ulcer											1 2.0
.....											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	60
Erosion											5 2.2
.....											
Tongue											1

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.3%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

Epithelium, Hyperplasia 1 3.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	60
Heart	+	+	+	+	+	+	+	+	+	+	60
Cardiomyopathy	2	2		2	2						36 2.2
Thrombosis											3

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60
Accessory Adrenal Cortical Nodule						X					12 1.5
Angiectasis											1 2.0
Degeneration, Fatty											5 1.2
Hyperplasia, Focal											6 1.2
Hypertrophy											1 2.0
Hypertrophy, Focal											2 1.5
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	60
Hyperplasia											12 1.9
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	59
Hyperplasia											2 1.0
Metaplasia, Hepatocyte											1 1.0

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Page 49

1-4 .. Lesion qualified as:

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.3%	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
Parathyroid Gland	+	+	M	+	+	+	+	+	+	+	59
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	60
Pars Distalis, Angiectasis									1		1 1.0
Pars Distalis, Cyst											5
Pars Distalis, Hyperplasia											1 3.0
Pars Distalis, Hyperplasia, Focal							2				12 1.8
Pars Intermedia, Cyst											1
Pars Intermedia, Hyperplasia											1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	60
Ultimobranchial Cyst											2
C-cell, Hyperplasia											10 1.1
Follicle, Cyst											2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	60
Atypia Cellular		X					X				28 3.0
Hypospermia											37 3.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	60
Ectasia											14 2.6
Hyperplasia											2 2.0
Inflammation, Suppurative											9 2.9

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8	8	8	8	8
<hr/>														
FISCHER 344 RATS MALE	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
0.3%	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	2
	1	2	3	4	5	6	7	8	9	0				
														* TOTALS
Inflammation, Chronic		2	2	2	2	2	2	2	2	2				23 2.2
<hr/>														
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	60
Corpora Amylacea			2		2									30 2.1
Hemorrhage														1 3.0
Inflammation, Suppurative			3		2		3		2	2				34 2.1
Epithelium, Hyperplasia														6 1.3
<hr/>														
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	60
Dilatation														2 3.5
<hr/>														
Testes		+	+	+	+	+	+	+	+	+	+	+	+	60
Mineralization														1 4.0
Interstitial Cell, Hyperplasia		2			2	1		1	1	2				13 1.6
Seminiferous Tubule, Atrophy														5 3.4
<hr/>														
HEMATOPOIETIC SYSTEM														
<hr/>														
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	60
Hypercellularity														4 2.3
Myelofibrosis												2		4 2.3
<hr/>														
Lymph Node														22
Mediastinal, Hemorrhage														5 3.4
Mediastinal, Pigmentation														7 2.9
Pancreatic, Hemorrhage														1 4.0
Renal, Pigmentation														2 3.0
<hr/>														

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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
<hr/>											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.3%	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	59
Congestion											2 3.0
Ectasia				2							4 2.0
Hemorrhage											3 1.3
Hyperplasia, Lymphoid				2							3 2.0
Pigmentation											5 2.0
<hr/>											
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	60
Ectasia											4 3.0
Hemorrhage											3 2.7
Hyperplasia, Lymphoid						2					3 2.3
<hr/>											
Spleen	+	+	+	+	+	+	+	+	+	+	60
Developmental Malformation											1
Fibrosis											11 2.6
Hematopoietic Cell Proliferation											8 2.1
Hemorrhage											1 2.0
Pigmentation, Hemosiderin	1	1	1	1	1	1	1	1	1	1	11 1.1
Lymphoid Follicle, Atrophy											1 3.0
<hr/>											
Thymus	+	+	+	+	+	+	+	+	+	+	58
Hemorrhage											1 3.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	M	58
Hyperplasia											16 2.5
<hr/>											
Skin	+	+	+	+	+	+	+	+	+	+	60

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.3%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Acanthosis	2	3.0
Cyst Epithelial Inclusion	1	
Hyperkeratosis	2	3.0
Inflammation, Chronic	1	3.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	60	
Cranium, Osteopetrosis												1 3.0

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60	
Compression												5 3.5
Hydrocephalus												1 2.0

Peripheral Nerve											1	
------------------	--	--	--	--	--	--	--	--	--	--	---	--

Spinal Cord											1	
-------------	--	--	--	--	--	--	--	--	--	--	---	--

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	60	
Congestion												2 2.0
Foreign Body												1 2.0
Hemorrhage												1 3.0
Infiltration Cellular, Histiocyte												12 1.3

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x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

Page 53

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.3%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0

*** TOTALS**

Inflammation, Subacute	3	2.7
Metaplasia, Osseous	1	1.0
Alveolar Epithelium, Hyperplasia	2	1.5

Nose	+	+	+	+	+	+	+	+	+	+	60
Exudate			X	X							12
Foreign Body			2	2							6 2.0
Fungus				X							6 3.0
Mucosa, Hyperplasia											8 1.8
Mucosa, Metaplasia, Squamous				1							6 2.0

Trachea	+	+	+	+	+	+	+	+	+	+	60
---------	---	---	---	---	---	---	---	---	---	---	-----------

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	60
Cyst											2
Inflammation, Suppurative											3 1.0
Mineralization											1 1.0
Nephropathy	1	2	1	2	2	1	1	1	1	1	57 2.0
Papilla, Inflammation, Suppurative											1 3.0
Papilla, Necrosis											1 4.0
Renal Tubule, Atrophy											1 3.0
Renal Tubule, Dilatation											1 2.0
Renal Tubule, Pigmentation	1	1	1	1	1	1	1	1	1	1	58 1.4

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 54

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
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 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	4	
		5	5	5	5	5	5	5	5	5	5	
		8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
0.3%		1	1	1	1	1	1	1	1	1	1	
		1	1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	0	* TOTALS
Transitional Epithelium, Hyperplasia												10 1.3
Urinary Bladder												60
Hemorrhage												1 3.0
Inflammation, Suppurative												2 2.5

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

	DAY ON TEST																								males (cont...)	
	0 7 3 1	0 7 2 2	0 6 9 7	0 7 3 0	0 7 3 1	0 7 3 0	0 5 7 4	0 6 9 7	0 4 9 4	0 4 0 0	0 7 3 1	0 7 0 2	0 6 8 1	0 7 3 1	0 6 7 4	0 6 8 4	0 6 8 3	0 7 3 0	0 7 3 1	0 7 3 0	0 7 2 3	0 7 3 1	0 6 5 4	0 6 2 4		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.6%	0	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	1	
	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	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Mixed Cell Focus	X																X	X								
Bile Duct, Hyperplasia	1	3	3	3	1	1	2	2	2		1	3	2	1	3		2	2	1	3	3	4	3			
Hepatocyte, Vacuolization							3																			
Cytoplasmic Kupffer Cell, Pigmentation																										
Lobules, Necrosis								1																		
Mesentery																										
Fibrosis																										
Hemorrhage																										
Fat, Necrosis																										
							3																			
Oral Mucosa																										
Pancreas																										
Atrophy																										
Cytoplasmic Alteration																										
Edema																										
Acinus, Cytoplasmic Alteration																										
Acinus, Hyperplasia, Focal																										
Salivary Glands																										
Cytoplasmic Alteration																										
Stomach, Forestomach																										
Edema																										
Ulcer																										
Mucosa, Hyperplasia																										
Stomach, Glandular																										

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 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 57
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

	DAY ON TEST																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	6	7	7	7	5	6	4	4	7	7	6	7	6	6	6	7	7	7	7	7	6	6	
	3	2	9	3	3	3	7	9	9	0	3	0	8	3	7	8	8	3	3	3	3	2	3	5	2
	1	2	7	0	1	0	4	7	4	0	1	2	1	1	4	4	3	0	1	1	0	3	1	1	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
0.6%	0	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	1
	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
	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...)
Hypospermia	3	3	3	3	3	3	3	3					3	3	3	3	3	3	3	3	3	3	3	3	3
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia				3	2		3						3	2								3			3
Hyperplasia			2																						
Inflammation, Suppurative					3		1		2	3							3					3			3
Inflammation, Chronic		2	2	2								2	2	2	2			3			2				
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Corpora Amylacea				2	2	3		2	2		2	2	2	2		2	2	2		2		2		2	2
Inflammation, Suppurative				1	3		3	2	1	2			1	2			3	1	3				3		
Epithelium, Hyperplasia																	2								
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Interstitial Cell, Hyperplasia					1																		1		
Seminiferous Tubule, Atrophy					3								3		4								2		4

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypercellularity																									
Myelofibrosis													2												
Lymph Node																									
Mediastinal, Fibrosis		+	+	+			+				+	+					+	+			+	+	+	+	+
Mediastinal, Hemorrhage																	3								

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 Page 60

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0																																								
	7 6 7 7 6 7 7 7 7 7 7 6 7 5 5 7 7 7 6 7 7 7 6 5 5																																								
FISCHER 344 RATS MALE ANIMAL ID	3 7 3 0 8 3 3 3 0 3 0 5 3 4 6 3 0 3 1 1 3 3 1 4 9																																								
	0 0 1 2 1 0 1 0 1 1 3 5 0 2 9 1 8 0 4 7 1 0 1 2 2																																								
0.6%	0 0																																								
	0 0																																								
ANIMAL ID	1 1																																								
	4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7																																								
0.6%	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																																								
	males (cont...)																																								
Mixed Cell Focus	X																							X			X														
Bile Duct, Hyperplasia	2	3	4	2	2	1					3	2	4	2	3	2					2	2			2	3	2														
Hepatocyte, Vacuolization																																									
Cytoplasmic Kupffer Cell, Pigmentation											2								2			2			2	3	2														
Lobules, Necrosis											1																														
Mesentery Fibrosis											+					+					+																				
Hemorrhage											3					3					3																				
Fat, Necrosis											3					3					3																				
Oral Mucosa																									+																
Pancreas Atrophy	2	1	2				1	1	1	1				3	2				1	1				2	1	1	1														
Cytoplasmic Alteration Edema			3	3																																					
Acinus, Cytoplasmic Alteration											3	3			3	2					2																				
Acinus, Hyperplasia, Focal											3	3			3	2					2																				
Salivary Glands																																									
Cytoplasmic Alteration				3																																					
Stomach, Forestomach																																									
Edema											3															2															
Ulcer											4															2															
Mucosa, Hyperplasia											4					2											2														
Stomach, Glandular																																									

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 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0 0																							
	7 6 7 7 6 7 7 7 7 7 6 7 5 5 7 7 7 6 7 7 7 6 5 5																							
FISCHER 344 RATS MALE 0.6% ANIMAL ID	3 7 3 0 8 3 3 3 0 3 0 5 3 4 6 3 0 3 1 1 3 3 1 4 9																							
	0 0 1 2 1 0 1 0 1 1 3 5 0 2 9 1 8 0 4 7 1 0 1 2 2																							
	0 0																							
	0 0																							
	1 1																							
	4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7																							
	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																							

males
(cont...)

Lung	+ +																							
Infiltration Cellular, Histiocyte	1 1 2 2 2 2 1 1																							
Inflammation, Subacute																								
Alveolar Epithelium, Hyperplasia	1 2																							
Nose	+ +																							
Exudate	X X																							
Foreign Body	2 2 2																							
Fungus	3 3 3																							
Mucosa, Hyperplasia	2 2																							
Mucosa, Metaplasia, Squamous	2 2 1																							
Trachea	+ +																							

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM

Kidney	+ +																							
Cyst																								
Inflammation, Suppurative	1 1 1 1 1																							
Mineralization	1 2																							
Nephropathy	2 2 3 3 3 2 3 3 2 3 2 2 3 1 1 3 2 3 2 2 3 3 1 1 1																							
Renal Tubule, Atrophy	3 3																							
Renal Tubule, Hyperplasia	1 1																							
Renal Tubule, Pigmentation	1 1 2 1 1 1 2 2 1 3 1 1 2 1 2 1 3 2 1 1 2 3 3																							
Transitional Epithelium, Hyperplasia	1 2 1 1																							

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
<hr/>										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	1	1	1	1	1	1	1	1	1	1
	7	7	7	7	7	7	7	7	7	8
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	60	
Intestine Large, Cecum Edema	+	+	+	+	+	+	+	+	+	+	60	4 2.8
Intestine Large, Colon Parasite Metazoan	+	+	X	+	+	+	+	+	+	+	59	5
Intestine Large, Rectum Parasite Metazoan	+	+	X	+	+	+	+	+	+	+	60	3
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	I	59	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	60	
Liver	+	+	+	+	+	+	+	+	+	+	60	
Angiectasis												5 2.6
Basophilic Focus						X	X					20
Clear Cell Focus				X								8
Degeneration, Cystic												10 1.5
Eosinophilic Focus			X									8
Granuloma	2											1 2.0
Hepatodiaphragmatic Nodule			X									1
Inflammation, Subacute		1	1		1							3 1.0

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+ .. Tissue examined microscopically

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I .. Insufficient tissue

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4		
	5	5	5	5	5	5	5	5	5	5		
	8	8	8	8	8	8	8	8	8	8		
.....												
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
0.6%	1	1	1	1	1	1	1	1	1	1		
	7	7	7	7	7	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0		
												* TOTALS
Mixed Cell Focus	X		X								8	
Bile Duct, Hyperplasia			1	1				1	1			42 2.2
Hepatocyte, Vacuolization Cytoplasmic									3		3 3.0	
Kupffer Cell, Pigmentation			3								6 2.2	
Lobules, Necrosis											2 1.0	
.....												
Mesentery			+		+		+		+		17	
Fibrosis			2								1 2.0	
Hemorrhage			3								1 3.0	
Fat, Necrosis			3				3				11 2.8	
.....												
Oral Mucosa												2
.....												
Pancreas	+		+		+		+		+		60	
Atrophy	1		1		2		1		1		32 1.4	
Cytoplasmic Alteration	2										1 2.0	
Edema											3 3.0	
Acinus, Cytoplasmic Alteration											1 3.0	
Acinus, Hyperplasia, Focal											9 2.3	
.....												
Salivary Glands	+		+		+		+		+		60	
Cytoplasmic Alteration											1 3.0	
.....												
Stomach, Forestomach	+		+		+		+		+		60	
Edema											4 2.3	
Ulcer											6 3.2	
Mucosa, Hyperplasia											3 2.0	
.....												
Stomach, Glandular	+		+		+		+		+		60	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	1	1	1	1	1	1	1	1	1	1
	7	7	7	7	7	7	7	7	7	8
	1	2	3	4	5	6	7	8	9	0

*** TOTALS**

Edema											3 2.3	
Erosion											2 2.5	
Ulcer											1 2.0	
.....												
Tongue												1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	60	
Hypertrophy												1 3.0
Inflammation, Subacute												1 3.0
Thrombosis												1 3.0
.....												
Heart	+	+	+	+	+	+	+	+	+	+	60	
Cardiomyopathy	3	1	2	2	2				2			30 2.0
Thrombosis												1
Schwann Cell, Hyperplasia												1 2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60	
Accessory Adrenal Cortical Nodule			X									10 1.8
Angiectasis												3 1.0
Degeneration, Fatty												6 1.3
Hyperplasia, Focal			1									11 1.4
Hypertrophy, Focal												5 1.8
.....												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	60	

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1-4 .. Lesion qualified as:

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	1	1	1	1	1	1	1	1	1	1
	7	7	7	7	7	7	7	7	7	8
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Hyperplasia											17 1.8
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	60
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	59
Hyperplasia											1 2.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	60
Pars Distalis, Angiectasis											3 2.3
Pars Distalis, Cyst	X										7
Pars Distalis, Hyperplasia											1 3.0
Pars Distalis, Hyperplasia, Focal	1								1	11 1.7	
Pars Intermedia, Angiectasis											2 3.0
Pars Intermedia, Cyst											1
Pars Intermedia, Hyperplasia											1 3.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	60
Ultimobranchial Cyst										X	2
C-cell, Hyperplasia	1										13 1.5
Follicle, Cyst	X										1

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	60
Atypia Cellular										X	30 3.0

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TDMS No. 05094 - 02
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 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0							
	4	4	4	4	4	4	4	4	4	4	4							
	5	5	5	5	5	5	5	5	5	5	5							
	8	8	8	8	8	8	8	8	8	8	8							
<hr/>																		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0							
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0							
0.6%	1	1	1	1	1	1	1	1	1	1	1							
	7	7	7	7	7	7	7	7	7	7	8							
	1	2	3	4	5	6	7	8	9	0								
												* TOTALS						
Hypospermia												41 3.0						
<hr/>																		
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+		60					
Ectasia												20 2.8						
Hyperplasia												2 2.5						
Inflammation, Suppurative	1													15 2.5				
Inflammation, Chronic			2		2		2		2				25 2.3					
<hr/>																		
Prostate	+	+	+	+	+	+	+	+	+	+	+		60					
Corpora Amylacea			2		2		2		2				37 2.1					
Inflammation, Suppurative	2	1	2	1												32 1.8		
Epithelium, Hyperplasia					2													6 1.8
<hr/>																		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+		60					
<hr/>																		
Testes	+	+	+	+	+	+	+	+	+	+	+		60					
Interstitial Cell, Hyperplasia	1	2	2	2												12 1.8		
Seminiferous Tubule, Atrophy					2		3		2		3		6 3.3					

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+		60			
Hypercellularity												1 2.0				
Myelofibrosis												4 2.8				
<hr/>																
Lymph Node			+													32
Mediastinal, Fibrosis																1 3.0
Mediastinal, Hemorrhage			3													2 3.0

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.6%	1	1	1	1	1	1	1	1	1	1	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	
Mediastinal, Pigmentation			2					3			12 2.8
Pancreatic, Ectasia											1 2.0
Pancreatic, Hyperplasia, Lymphoid											1 2.0
Pancreatic, Pigmentation											4 2.8
Renal, Pigmentation											3 3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	60
Ectasia								3			5 2.4
Hemorrhage				2							3 2.0
Hyperplasia, Lymphoid											1 3.0
Pigmentation											1 3.0
Lymph Node, Mediastinal											1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	60
Ectasia											2 3.0
Hemorrhage							2	2			2 2.0
Hyperplasia, Lymphoid											1 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	60
Fibrosis											14 2.9
Hematopoietic Cell Proliferation											5 1.8
Necrosis											1 4.0
Pigmentation, Hemosiderin	1	1	1	1	1	1	1	1	1	1	12 1.2
Thymus	+	+	+	+	+	+	+	+	+	+	60
Cyst											1 3.0

INTEGUMENTARY SYSTEM

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
.....										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	1	1	1	1	1	1	1	1	1	1
	7	7	7	7	7	7	7	7	7	8
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

Mammary Gland	+	+	+	+	+	+	+	+	+	+	57	
Hyperplasia											10 2.2	
.....												
Skin	+	+	+	+	+	+	+	+	+	+	60	
Acanthosis											2 2.5	
Cyst Epithelial Inclusion											1	
Edema											1 3.0	
Hyperkeratosis											3 3.0	
Inflammation, Chronic	3										1 3.0	

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	60	
Cranium, Osteopetrosis											1 3.0	
Femur, Osteopetrosis											3 3.0	
Rib, Osteopetrosis											1 3.0	
.....												
Skeletal Muscle											1	

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60	
Necrosis											1 2.0	

RESPIRATORY SYSTEM

.....											
-------	--	--	--	--	--	--	--	--	--	--	--

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 Page 80
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 Species/Strain: RATS/F 344

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 Lab: SRI

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.6%	1	1	1	1	1	1	1	1	1	1	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Lung	+	+	+	+	+	+	+	+	+	+	60
Infiltration Cellular, Histiocyte											14 1.6
Inflammation, Subacute											1 3.0
Alveolar Epithelium, Hyperplasia	3										7 1.7
.....											
Nose	+	+	+	+	+	+	+	+	+	+	60
Exudate											14
Foreign Body	2										7 2.0
Fungus											8 2.8
Mucosa, Hyperplasia	1										6 2.0
Mucosa, Metaplasia, Squamous											7 1.7
.....											
Trachea	+	+	+	+	+	+	+	+	+	+	60

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	60
Cyst											3
Inflammation, Suppurative											9 1.0
Mineralization											2 1.5
Nephropathy	1	1	1	2	1	1	1	2	1	2	60 2.1
Renal Tubule, Atrophy											1 3.0
Renal Tubule, Hyperplasia											2 2.0
Renal Tubule, Pigmentation	1	1	1	1	1	1	2	1	1	2	60 1.6
Transitional Epithelium, Hyperplasia											6 1.2

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 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
		4	4	4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5	5	5
		8	8	8	8	8	8	8	8	8	8
.....											
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
0.6%		1	1	1	1	1	1	1	1	1	1
		7	7	7	7	7	7	7	7	7	8
		1	2	3	4	5	6	7	8	9	0
											* TOTALS
.....											
Urinary Bladder		+	+	+	+	+	+	+	+	+	+
											60

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 Species/Strain: RATS/F 344

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DAY ON TEST	0 0																							
	6 5 7 7 7 7 7 7 7 6 5 7 7 1 7 7 7 7 4 6 7 7 6 7 7																							
FISCHER 344 RATS MALE 1.2% ANIMAL ID	6 5 3 1 3 1 1 3 3 7 9 0 3 8 3 3 3 3 7 1 3 0 3 3 3																							
	3 0 1 8 0 6 6 1 1 5 3 9 0 0 0 0 1 0 1 7 4 0 9 9 1 0																							
FISCHER 344 RATS MALE 1.2% ANIMAL ID	0 0																							
	0 0																							
	2 2																							
	0 0 0 0 1																							
	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																							

males
(cont...)

Alveolar Epithelium, Hyperplasia

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exudate	X		X	X				X	X						X					X				
Foreign Body	3								2						2									
Fungus	3		2	2					3						3					2				
Mucosa, Hyperplasia	2		2						3						3									
Mucosa, Metaplasia, Squamous									2															

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SPECIAL SENSES SYSTEM

Ear																								
Eye																								
Cataract																								
Hemorrhage																								
Retina, Degeneration																								

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative			1												1									2
Nephropathy	2	1	1	2	3	2	1	2	2	2	2	2		3	2	3	3	1	1	2	2	1	3	3
Renal Tubule, Cytoplasmic Alteration												2												
Renal Tubule, Dilatation																								
Renal Tubule, Pigmentation	2	4	2	3	1	2	3	2	1	1	2	3	2	1	1	2	1	2	3	2	1	2	2	2

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 Page 99

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 Test Type: CHRONIC
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 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
1.2%	2	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	60
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	60
Parasite Metazoan											1
Ulcer											1 4.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	58
Parasite Metazoan											4
Intestine Large, Rectum	+	+	+	+	+	M	+	+	+	+	59
Parasite Metazoan						X					9
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	60
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	60
Liver	+	+	+	+	+	+	+	+	+	+	60
Angiectasis											2 3.0
Basophilic Focus	X										15
Clear Cell Focus			X								9
Cyst											2
Degeneration, Cystic											6 1.7
Eosinophilic Focus				X			X				6
Granuloma					1						8 1.5

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
<hr/>											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
1.2%	2	2	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	
<hr/>											
Hemorrhage							1				2 2.0
Hepatodiaphragmatic Nodule								X			8
Inflammation, Subacute									1		5 1.6
Mixed Cell Focus											7
Bile Duct, Hyperplasia											27 2.4
Centrilobular, Necrosis											2 2.5
Hepatocyte, Vacuolization Cytoplasmic											4 3.3
Kupffer Cell, Pigmentation											6 2.2
Lobules, Necrosis			1				1				3 1.0
<hr/>											
Mesentery								+			6
Accessory Spleen								X			2
Fat, Necrosis											3 3.3
<hr/>											
Pancreas	+	+	+	+	+	+	+	+	+	+	60
Atrophy	2			1	1		2				33 1.9
Cytoplasmic Alteration		1									1 1.0
Acinus, Hyperplasia, Focal											12 2.3
<hr/>											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	60
<hr/>											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	60
Edema											3 3.3
Ulcer											3 3.0
Mucosa, Hyperplasia											1 2.0
<hr/>											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	60
Erosion											1 2.0
Ulcer											1 3.0
<hr/>											

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

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	8	8	8	8	8	8	8	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
1.2%	2	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

Tongue Epithelium, Hyperplasia	1	1 2.0
--------------------------------	---	--------------

CARDIOVASCULAR SYSTEM

Blood Vessel	+ + + + + + + + + +	60	
Heart	+ + + + + + + + + +	60	
Cardiomyopathy	1		40 2.0
Thrombosis	1 2 1 2 1		5

ENDOCRINE SYSTEM

Adrenal Cortex	+ + + + + + + + + +	60	
Accessory Adrenal Cortical Nodule	X 2 X		9 1.4
Angiectasis			2 3.0
Degeneration, Fatty			8 1.5
Hemorrhage			1 2.0
Hyperplasia, Focal			4 2.0
Hypertrophy, Focal	1		2 1.0
Adrenal Medulla	+ + + + + + + + + +	60	
Hyperplasia			12 1.4
Islets, Pancreatic	+ + + + + + + + + +	60	
Hyperplasia			2 1.5

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	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
1.2%	2	2	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	59
Hyperplasia											1 2.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	59
Pars Distalis, Cyst	X										3
Pars Distalis, Hemorrhage		3									1 3.0
Pars Distalis, Hyperplasia											2 3.0
Pars Distalis, Hyperplasia, Focal		2					2				7 2.3
Pars Distalis, Necrosis											1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	60
Ultimobranchial Cyst						1	X				4 1.0
C-cell, Hyperplasia											7 1.1
Follicle, Cyst								X			5

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	60
Atypia Cellular	X			X							39 3.0
Hypospermia											43 3.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	60
Ectasia											14 2.4
Hyperplasia											1 2.0
Inflammation, Suppurative								3			7 2.6

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	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
1.2%	2	2	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	
Inflammation, Chronic	3			2	2		3		2	3	23 2.3
Prostate	+	+	+	+	+	+	+	+	+	+	60
Corpora Amylacea	2		2		2	2	2		2		37 2.1
Fibrosis											1 3.0
Inflammation, Suppurative	3		2	2	1						23 1.9
Epithelium, Hyperplasia											3 2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	60
Dilatation											1 4.0
Testes	+	+	+	+	+	+	+	+	+	+	60
Interstitial Cell, Hyperplasia		3			3			3		2	10 2.0
Seminiferous Tubule, Atrophy											4 3.8

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	60
Myelofibrosis											5 2.2
Lymph Node											20
Mediastinal, Hemorrhage						3					1 3.0
Mediastinal, Pigmentation						3					6 3.3
Pancreatic, Hemorrhage											1 3.0
Pancreatic, Pigmentation											2 3.0
Renal, Pigmentation											2 3.5
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	60

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	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
1.2%	2	2	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Ectasia											4 2.5
Hemorrhage											6 1.5
Hyperplasia, Lymphoid											5 2.0
.....											
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	60
Ectasia											1 2.0
Hemorrhage											4 2.3
.....											
Spleen	+	+	+	+	+	+	+	+	+	+	60
Fibrosis											10 3.0
Granuloma											1 1.0
Hematopoietic Cell Proliferation											8 2.0
Pigmentation, Hemosiderin	1	1				1	1	1	1	1	13 1.2
.....											
Thymus		+	+	+	+	+	+	+	+	+	57
.....											
INTEGUMENTARY SYSTEM											
.....											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	58
Hyperplasia											12 2.3
.....											
Skin	+	+	+	+	+	+	+	+	+	+	60
Acanthosis											10 2.6
Cyst Epithelial Inclusion											1
Hemorrhage											1 2.0
Hyperkeratosis											13 3.1
Inflammation, Chronic											2 2.0
Ulcer											3 2.7

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		4	4	4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5	5	5
		8	8	8	8	8	8	8	8	8	8
.....											
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
1.2%		2	2	2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9	0
										* TOTALS	

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	60
Cranium, Hyperostosis											1 3.0
Femur, Osteopetrosis											1 2.0

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60
Compression											2 3.5
Gliosis											1 3.0
Hemorrhage											2 2.5
Hydrocephalus											1 2.0
Mineralization											1 3.0
Necrosis											2 3.0
Cerebellum, Necrosis											1 3.0
Peripheral Nerve											1
Spinal Cord											2

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	60
Congestion											1 3.0
Hemorrhage											1 4.0
Infiltration Cellular, Histiocyte							1		1		8 1.0

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	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
1.2%	2	2	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	
Alveolar Epithelium, Hyperplasia	3										3 2.3
Nose	+ + + + + + + + + +										60
Exudate											17
Foreign Body											5 2.4
Fungus											11 2.8
Mucosa, Hyperplasia											12 2.1
Mucosa, Metaplasia, Squamous											2 2.0
Trachea	+ + + + + + + + + +										60
SPECIAL SENSES SYSTEM											
Ear											1
Eye	+										2
Cataract	4										1 4.0
Hemorrhage	4										1 4.0
Retina, Degeneration	4										1 4.0
URINARY SYSTEM											
Kidney	+ + + + + + + + + +										60
Inflammation, Suppurative											4 1.5
Nephropathy	1	1	2	1	1	1	1	1	1		57 1.8
Renal Tubule, Cytoplasmic Alteration											1 2.0
Renal Tubule, Dilatation											1 3.0
Renal Tubule, Pigmentation	2	2	2	2	2	2	2	2	2	2	60 1.9

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	4	
		5	5	5	5	5	5	5	5	5	5	
		8	8	8	8	8	8	8	8	8	8	
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
1.2%		2	2	2	2	2	2	2	2	2	2	
		3	3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	0	
											* TOTALS	
Transitional Epithelium, Hyperplasia												1 2.0
Urinary Bladder												60
Transitional Epithelium, Hyperplasia												2 3.0

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	7	7	7	7	4	7	7	7	7	7	7	7	7	6	6	7	7	7	7	4	7	7	7	7	
	3	3	3	3	9	3	3	3	3	3	2	3	3	4	7	3	3	3	3	5	3	3	3	3	
	1	1	0	1	9	1	0	1	1	0	2	1	1	9	8	1	1	0	1	1	1	0	1	0	
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	
CONTROL FEED RTD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Foreign Body										2															
Fungus						2				2					3						3				
Mucosa, Hyperplasia														2											
Mucosa, Metaplasia, Squamous										2															
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																									
Zymbal's Gland																									
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative						1																			
Mineralization																									
Nephropathy	2	1	2	1	1	2	3	1	2	2	1	1	3	1	3	1	2	1	2	1	1	1	1	2	
Renal Tubule, Cytoplasmic Alteration																									
Renal Tubule, Hyaline Droplet																									
Renal Tubule, Necrosis																									
Renal Tubule, Pigmentation	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	1	1	2	1	1	2	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
FISCHER 344 RATS MALE	7	5	7	4	6	6	7	7	7	7	6	7	7	7	7	7	7	7	7	7	6	6	4	4		
CONTROL FEED RTD	3	8	3	7	5	5	3	3	3	3	3	3	3	3	3	3	3	0	2	3	1	6	0	5	5	
ANIMAL ID	1	4	1	9	4	9	0	1	1	0	9	1	1	0	1	1	0	2	2	1	9	9	7	8	8	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	
	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	males (cont...)
	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

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan													X	X										X
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan			X	X					X		I													X
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																								
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																		2	3			2		2
Basophilic Focus	X						X	X	X	X		X		X		X					X			
Clear Cell Focus									X	X				X										
Degeneration, Cystic	2																		3			3		
Developmental Malformation																								
Eosinophilic Focus	X		X					X														X		
Hematopoietic Cell Proliferation						1																		
Hepatodiaphragmatic Nodule													X	X										

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 118

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	5	7	4	6	6	7	7	7	7	6	7	7	7	7	7	7	7	7	7	6	6	4	4	
	3	8	3	7	5	5	3	3	3	3	3	3	3	3	3	3	3	0	2	3	1	6	0	5	5
	1	4	1	9	4	9	0	1	1	0	9	1	1	0	1	1	0	2	2	1	9	9	7	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONTROL FEED RTD	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
	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9
	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

males (cont...)

CARDIOVASCULAR SYSTEM

Blood Vessel Hypertrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Subacute	3																								
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy			1		3	2						2		1		3				2		3	2	3	
Inflammation, Chronic																									
Schwann Cell, Hyperplasia																						3			

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule						3									2			2						X
Angiectasis													1											
Degeneration, Fatty		4								2														
Hemorrhage												2												
Hyperplasia, Focal			2									3						2			2			
Hypertrophy, Focal										2		1		1										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia					1		3										3		2					
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Angiectasis															2	2			3						
Pars Distalis, Cyst		X									X														
Pars Distalis, Hyperplasia, Focal				1							3			2	3					1					
Pars Intermedia, Angiectasis																									
Pars Intermedia, Cyst																									
Pars Intermedia, Hyperplasia		2														2									
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Ultimobranchial Cyst																									
C-cell, Hyperplasia		1	1			1					2						1			3					
Follicular Cell, Hyperplasia																									

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atypia Cellular	3	3						3	3	3	3	3	3	3	3	3		3	3		3				
Hypospermia	3	3	3		2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia															3		2								
Hyperplasia																									3

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	3	4	4	4	4	4	4	4	4
	5	3	5	5	5	5	2	5	5	5
	8	9	8	8	8	8	2	8	8	8
.....										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
CONTROL FEED RTD	2	2	2	2	2	2	2	2	2	3
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	60	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	60	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	59	6
Parasite Metazoan												
Intestine Large, Rectum	+	+	+		+	+	+	+	+	+	57	8
Parasite Metazoan	X											
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	60	1
Parasite Metazoan												
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	60	
Liver	+	+	+	+	+	+	+	+	+	+	60	
Angiectasis												4 2.3
Basophilic Focus				X					X			22
Clear Cell Focus			1									9 1.0
Degeneration, Cystic												7 2.4
Developmental Malformation												1 3.0
Eosinophilic Focus												10
Hematopoietic Cell Proliferation												1 1.0
Hepatodiaphragmatic Nodule												4

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	3	4	4	4	4	4	4	4	4	
	5	3	5	5	5	5	2	5	5	5	
	8	9	8	8	8	8	2	8	8	8	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
CONTROL FEED RTD	2	2	2	2	2	2	2	2	2	3	
	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	
.....											
Inflammation, Subacute										1	1 1.0
Mixed Cell Focus						X					7
Bile Duct, Hyperplasia						1		1	1	1	39 1.6
Hepatocyte, Vacuolization	2				1						12 2.4
Lobules, Necrosis											2 1.0
.....											
Mesentery				+				+	+		15
Accessory Spleen											2
Fat, Necrosis				3				3	2		11 2.8
.....											
Pancreas	+	+	+	+	+	+	+	+	+	+	60
Atrophy	1		1			1		1		1	37 1.6
Acinus, Cytoplasmic Alteration											1 2.0
Acinus, Hyperplasia, Focal											2 2.5
.....											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	60
.....											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	60
Ulcer											1 4.0
Mucosa, Hyperplasia											1 3.0
.....											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	60
Edema											1 2.0
Ulcer											1 3.0
Mucosa, Hyperplasia											1 2.0
.....											
Tooth				+							1

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TDMS No. 05094 - 02
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	3	4	4	4	4	4	4	4	4
	5	3	5	5	5	5	2	5	5	5
	8	9	8	8	8	8	2	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
CONTROL FEED RTD	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	3
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

CARDIOVASCULAR SYSTEM

Blood Vessel Hypertrophy Inflammation, Subacute	+	+	+	+	+	+	+	+	+	+	60		
												2 3.0	
												2 3.0	
Heart	+	+	+	+	+	+	+	+	+	+	60		
Cardiomyopathy	2					2		2		1		29 2.0	
Inflammation, Chronic												1 3.0	
Schwann Cell, Hyperplasia												1 3.0	

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60		
Accessory Adrenal Cortical Nodule	X					X						13 1.8	
Angiectasis												8 1.5	
Degeneration, Fatty					1							4 2.3	
Hemorrhage												1 2.0	
Hyperplasia, Focal												9 1.7	
Hypertrophy, Focal												3 1.3	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	60		
Hyperplasia												6 2.0	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	60		
Parathyroid Gland	+	+	M	+	+	+	+	+	+	+	56		

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Page 128

1-4 .. Lesion qualified as:

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TDMS No. 05094 - 02
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	3	4	4	4	4	4	4	4	4
	5	3	5	5	5	5	2	5	5	5
	8	9	8	8	8	8	2	8	8	8
.....										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
CONTROL FEED RTD	2	2	2	2	2	2	2	2	2	3
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0

*** TOTALS**

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	60	
Pars Distalis, Angiectasis	2											4 2.3
Pars Distalis, Cyst						X						4
Pars Distalis, Hyperplasia, Focal	2			2	1							12 1.7
Pars Intermedia, Angiectasis												2 3.0
Pars Intermedia, Cyst												1
Pars Intermedia, Hyperplasia												2 2.0
.....												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	60	
Hyperplasia												1 4.0
Ultimobranchial Cyst								X				2
C-cell, Hyperplasia												12 1.3
Follicular Cell, Hyperplasia												1 2.0

GENERAL BODY SYSTEM

Tissue NOS											1
------------	--	--	--	--	--	--	--	--	--	--	---

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	60	
Atypia Cellular	X			X	X		X					33 3.0
Hyospermia				X								41 3.0
.....												
Preputial Gland	+	+	+	+	+	+	+	+	+	+	60	
Ectasia												9 2.6
Hyperplasia												2 2.5

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	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	4	3	4	4	4	4	4	4	4	4	
	5	3	5	5	5	5	2	5	5	5	
	8	9	8	8	8	8	2	8	8	8	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
CONTROL FEED RTD	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	3	
	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Inflammation, Suppurative											5 2.2
Inflammation, Chronic	3		3	2	2	2			2	2	28 2.2
.....											
Prostate	+	+	+	+	+	+	+	+	+	+	60
Corpora Amylacea				2			2		2		26 2.3
Inflammation, Suppurative	2	2	2			2	2	2		2	34 1.8
Epithelium, Hyperplasia											5 1.8
.....											
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	60
.....											
Testes	+	+	+	+	+	+	+	+	+	+	60
Interstitial Cell, Hyperplasia	2			1					2		9 1.4
Seminiferous Tubule, Atrophy											2 3.0
.....											
HEMATOPOIETIC SYSTEM											
.....											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	60
Hypercellularity											2 3.0
Myelofibrosis											3 2.7
.....											
Lymph Node										+	14
Mediastinal, Hemorrhage							3				4 2.8
Mediastinal, Hyperplasia, Lymphoid											1 2.0
Mediastinal, Pigmentation											4 3.0
Pancreatic, Hyperplasia, Lymphoid											1 2.0
Pancreatic, Pigmentation											1 3.0
.....											
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	58

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TDMS No. 05094 - 02
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 Species/Strain: RATS/F 344

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 Lab: SRI

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	4	3	4	4	4	4	4	4	4	4	
	5	3	5	5	5	5	2	5	5	5	
	8	9	8	8	8	8	2	8	8	8	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
CONTROL FEED RTD	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	3	
	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Ectasia											5 2.6
Hemorrhage	1		2				2				10 1.4
Hyperplasia, Lymphoid		3				2					6 2.3
Pigmentation											7 2.1
.....											
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	60
Ectasia											1 2.0
Hemorrhage											3 2.7
.....											
Spleen	+	+	+	+	+	+	+	+	+	+	60
Fibrosis											7 2.6
Hematopoietic Cell Proliferation											6 2.0
Necrosis											1 4.0
Pigmentation, Hemosiderin	1		1		1	1		1	1	1	11 1.1
.....											
Thymus	+	+	+	+	+	+	+	+	+	+	58
.....											
INTEGUMENTARY SYSTEM											
.....											
Mammary Gland	+	+	+	+	+	+	+	+	M	+	58
Hyperplasia											8 2.3
.....											
Skin	+	+	+	+	+	+	+	+	+	+	60
Acanthosis											1 3.0
Cyst Epithelial Inclusion											1
Hyperkeratosis											1 3.0
Inflammation, Chronic											1 4.0
Ulcer		4									1 4.0
Subcutaneous Tissue, Inflammation,											1 3.0

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: 85-68-7

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	3	4	4	4	4	4	4	4	4
	5	3	5	5	5	5	2	5	5	5
	8	9	8	8	8	8	2	8	8	8
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
CONTROL FEED RTD	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	3
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Chronic

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	60
Femur, Osteopetrosis											2 2.5
Skeletal Muscle							+				4

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60
Compression											4 4.0
Hydrocephalus											2 2.5

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	60
Congestion											1 3.0
Hemorrhage							3				1 3.0
Infiltration Cellular, Histiocyte									1		16 1.3
Inflammation, Suppurative											1 3.0
Inflammation, Subacute											1 2.0
Alveolar Epithelium, Hyperplasia											6 1.8
Nose	+	+	+	+	+	+	+	+	+	+	60
Exudate						X			X		14

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	3	4	4	4	4	4	4	4	4	
	5	3	5	5	5	5	2	5	5	5	
	8	9	8	8	8	8	2	8	8	8	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
CONTROL FEED RTD	2	2	2	2	2	2	2	2	2	3	
	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	
.....											
Foreign Body										2	4 2.3
Fungus						X					12 2.6
Mucosa, Hyperplasia											9 2.2
Mucosa, Metaplasia, Squamous			1			2					7 1.9
.....											
Trachea	+	+	+	+	+	+	+	+	+	+	60
.....											
SPECIAL SENSES SYSTEM											
.....											
Zymbal's Gland		+									2
.....											
URINARY SYSTEM											
.....											
Kidney	+	+	+	+	+	+	+	+	+	+	60
Inflammation, Suppurative											1 1.0
Mineralization											1 1.0
Nephropathy	1		1		1	2		1	1	1	57 1.6
Renal Tubule, Cytoplasmic Alteration							3				2 3.0
Renal Tubule, Hyaline Droplet											1 3.0
Renal Tubule, Necrosis											1 1.0
Renal Tubule, Pigmentation	1	1	1	1	1	1	1	1	1	1	59 1.2
.....											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	60

*** END OF MALE DATA ***

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 x .. Lesion present
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 M .. Missing tissue
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 Test Type: CHRONIC
 Route: DOSED FEED
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 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	5	7	7	7	7	3	0	7	7	7	7	7	5	7	7	7	7	7	7	7	6	7	6	7	
	3	1	9	1	1	3	2	6	3	2	0	3	0	1	3	1	3	3	3	0	3	1	2	6	3	3	
	6	1	8	6	7	7	5	8	9	5	2	6	2	7	7	2	6	6	6	3	7	7	5	8	6	6	
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	
UNTREATDCONTROL	0	0	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	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Hepatodiaphragmatic Nodule						X													X								
Inflammation, Subacute																											
Mixed Cell Focus			X				X													X	X	X	X			X	
Bile Duct, Hyperplasia						2			2				2	3	1		2										
Centrilobular, Necrosis																											
Hepatocyte, Vacuolization Cytoplasmic			3		3	3								3													
Kupffer Cell, Hyperplasia									3																		
Kupffer Cell, Pigmentation					3	2																					
Lobules, Necrosis																									1		
Mesentery	+	+	+	+						+									+							+	
Accessory Spleen			X																								
Fat, Necrosis	3	2	2	2														2								2	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	1	1		2								1					1			1						1	
Acinus, Cytoplasmic Alteration																											
Acinus, Hyperplasia, Focal																											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																											
Hyperplasia																											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema			3		2																						
Mucosa, Hyperplasia			3																								
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																											
Inflammation, Chronic																										3	

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

	DAY ON TEST																									females (cont...)
	0 7 3 6	0 7 1 1	0 5 9 8	0 7 1 6	0 7 1 7	0 7 3 7	0 7 2 5	0 3 6 8	0 0 3 9	0 7 2 5	0 7 0 2	0 7 3 6	0 7 0 2	0 7 1 7	0 5 3 2	0 7 3 6	0 7 3 6	0 7 3 6	0 7 0 3	0 7 3 7	0 7 1 7	0 7 2 5	0 6 6 8	0 7 3 5		
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	
UNTREATDCONTROL	0	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	
	0	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	1	1	1	1	1	1	1	1	1	2	2	2	3	4	

Cyst Inflammation, Chronic	X																								
Uterus Hydrometra	+																								
Hyperplasia, Cystic Inflammation, Suppurative	3																								
													2												
Vagina	M												+												M

HEMATOPOIETIC SYSTEM

Bone Marrow Hypercellularity	+																									
Myelofibrosis	3																									
Lymph Node Mediastinal, Hemorrhage	+																									
Mediastinal, Pigmentation	3																									
Pancreatic, Pigmentation													3												4	
Renal, Pigmentation													3													
Lymph Node, Mandibular Ectasia	+																									
Hemorrhage	2																									
Hyperplasia, Lymphoid													2												1	1
Pigmentation	2																									
													2												2	3

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 Page 138

TDMS No. 05094 - 02
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 Species/Strain: RATS/F 344

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 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

Lymph Node, Mesenteric	+ +																								
Ectasia																									
Hemorrhage	2																								
Hyperplasia, Lymphoid	3 1																								
Spleen	+ +																								
Fibrosis																									
Hematopoietic Cell Proliferation	1 1 2 4 2 3 1																								
Necrosis	3																								
Pigmentation, Hemosiderin	3 2 2 2 2 2 2																								
Thymus	+ + + M +																								
Hemorrhage	2																								

INTEGUMENTARY SYSTEM

Mammary Gland	+ + + + + + + + M + + + + + + + + + + + + + + + +																								
Ectasia	1 1																								
Hyperplasia	2 1 1 2 1 1 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								
Skin	+ +																								
Acanthosis																									
Cyst Epithelial Inclusion	X																								
Hyperkeratosis																									
Inflammation, Chronic																									
Ulcer																									

MUSCULOSKELETAL SYSTEM

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DAY ON TEST	ANIMAL ID																									females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	5	7	7	7	7	3	0	7	7	7	7	7	5	7	7	7	7	7	7	7	7	6	7	0	
3	1	9	1	1	3	2	6	3	2	0	3	0	1	3	1	3	3	3	3	0	3	1	2	6	3	0
6	1	8	6	7	7	5	8	9	5	2	6	2	7	7	2	6	6	6	3	7	7	5	8	6	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
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cranium, Osteopetrosis			2										2	2										2	
Femur, Osteopetrosis			2										3	2						2					

Skeletal Muscle																									
Hemorrhage										+															
										3															

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Compression	3		4																				4		
Gliosis																									
Hydrocephalus			3																			2			

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte	1					1				1		1	1		1					1		1	3		1
Inflammation, Subacute																									
Alveolar Epithelium, Hyperplasia			3																						
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exudate			X					X					X												
Foreign Body			2																						
Fungus													3												
Mucosa, Hyperplasia			1																				2		
Mucosa, Metaplasia, Squamous													3												

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 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

females
(cont...)

Trachea +

SPECIAL SENSES SYSTEM

Eye +
 Atrophy
 Hemorrhage 3

URINARY SYSTEM

Kidney +
 Cyst
 Mineralization 2 2 3 2 3 2 1 2 2 2 2 2 2 2 2 2 2 3 2 2
 Nephropathy 2 1 1 1 1 1 3 1 1 1 1 1 2 1 2 3 2
 Renal Tubule, Atrophy
 Renal Tubule, Cytoplasmic Alteration
 Renal Tubule, Dilatation
 Renal Tubule, Necrosis 2
 Renal Tubule, Pigmentation 1 2 1 2 1 1 1 1 1 1 2 2 2 2 1 2 1 2 1 1 2 2 1 1
 Urinary Bladder +
 Edema 2
 Transitional Epithelium, Hyperplasia 1 2 2 1

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 Lab: SRI

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	7	7	7	7	7	6	7	7	6	7	7	6	7	7	5	7	7	7	5	6	7			
	3	3	1	3	3	3	3	3	8	3	3	7	3	2	3	9	3	3	8	1	3	3	7	8	3	
	6	7	3	6	6	7	6	7	4	6	6	0	7	6	6	1	7	6	7	9	7	6	0	1	7	
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	
UNTREATDCONTROL	0	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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	females (cont...)
	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

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Intestine Large, Cecum Edema Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver Basophilic Focus Clear Cell Focus Developmental Malformation Eosinophilic Focus Granuloma Hematopoietic Cell Proliferation	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	2	X		X	X	X		X	X	X		X	X	X	X		X				X						2

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TDMS No. 05094 - 02
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 Lab: SRI

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

females
(cont...)

Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Pars Distalis, Angiectasis				3		3				4										4					
Pars Distalis, Cyst		X	X		X	X	X						X		X	X		X		X	X		X	X	
Pars Distalis, Hyperplasia, Focal												2					3							3	
Pars Intermedia, Hyperplasia																									
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Ultimobranchial Cyst												X													
C-cell, Hyperplasia							2																	1	

GENERAL BODY SYSTEM

Tissue NOS
 Hemorrhage

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia	3							3	2					3	3	3			3		2				
Hyperplasia																									
Inflammation, Suppurative					2			3																	
Inflammation, Chronic																			3		2				
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 + .. Tissue examined microscopically
 x .. Lesion present
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 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 145

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

females (cont...)

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cranium, Osteopetrosis															2	3								3
Femur, Osteopetrosis																								2

Skeletal Muscle																								
Hemorrhage																								

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Compression			2			3				4	3					3							2	
Gliosis																								3
Hydrocephalus																								

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte			1						1	1	1								1				1	1
Inflammation, Subacute																								2
Alveolar Epithelium, Hyperplasia																								1

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exudate																								
Foreign Body																								
Fungus																								
Mucosa, Hyperplasia																								
Mucosa, Metaplasia, Squamous																								

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	M	58	
Intestine Large, Cecum	+	+	+	+	+	M	+	+	+	+	59	
Edema												2 2.0
Parasite Metazoan												2
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	60	
Parasite Metazoan												3
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	60	
Parasite Metazoan												3
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	59	
Ulcer												1 2.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	60	
Liver	+	+	+	+	+	+	+	+	+	+	60	
Basophilic Focus	X	X	X	X	X	X	X	X	X	X		47
Clear Cell Focus												3
Developmental Malformation												1
Eosinophilic Focus												19
Granuloma							1					7 1.6
Hematopoietic Cell Proliferation												1 2.0

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+ .. Tissue examined microscopically

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1-4 .. Lesion qualified as:

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	9	9	9	9	9	9	9	9	9	9	9	9	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		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
UNTREATDCONTROL	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	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0											
																			* TOTALS		
Hepatodiaphragmatic Nodule																				X	10
Inflammation, Subacute																					3 1.7
Mixed Cell Focus																					10
Bile Duct, Hyperplasia																				1	11 1.8
Centrilobular, Necrosis																					1 2.0
Hepatocyte, Vacuolization Cytoplasmic																					7 3.1
Kupffer Cell, Hyperplasia																					1 3.0
Kupffer Cell, Pigmentation																					4 2.3
Lobules, Necrosis																					6 1.7
Mesentery																					11
Accessory Spleen																					1
Fat, Necrosis																					10 2.3
Pancreas																					60
Atrophy																					19 1.2
Acinus, Cytoplasmic Alteration																					1 3.0
Acinus, Hyperplasia, Focal																					1 3.0
Salivary Glands																					59
Atrophy																					1 2.0
Hyperplasia																					1 2.0
Stomach, Forestomach																					60
Edema																					2 2.5
Mucosa, Hyperplasia																					1 3.0
Stomach, Glandular																					60
Erosion																					1 1.0
Inflammation, Chronic																					1 3.0

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TDMS No. 05094 - 02
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 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

*** TOTALS**

Mineralization											1 2.0
Ulcer											3 3.0
Tongue											3
Epithelium, Hyperplasia											1 1.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	60
Heart	+	+	+	+	+	+	+	+	+	+	60
Cardiomyopathy										1	17 1.5
Thrombosis											1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60
Accessory Adrenal Cortical Nodule		X		X							7 1.6
Angiectasis	1	1	2				1			1	27 1.6
Degeneration, Fatty										1	11 2.2
Hyperplasia, Focal											9 1.3
Hypertrophy, Focal									2		10 2.1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	59
Hyperplasia											1 2.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	60

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

Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	56
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	59
Pars Distalis, Angiectasis						3					8 3.1
Pars Distalis, Cyst		X	X		X			X	X		30
Pars Distalis, Hyperplasia, Focal		2									13 1.8
Pars Intermedia, Hyperplasia											1 3.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	59
Ultimobranchial Cyst	X										3
C-cell, Hyperplasia											6 1.3

GENERAL BODY SYSTEM

Tissue NOS											1
Hemorrhage											1 3.0

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	60
Ectasia											12 2.8
Hyperplasia											1 2.0
Inflammation, Suppurative											3 2.3
Inflammation, Chronic	2		2								6 2.3
Ovary	+	+	+	+	+	+	+	+	+	+	60

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

Cyst											3 3.0
Inflammation, Chronic											1 3.0
Uterus	+	+	+	+	+	+	+	+	+	+	60
Hydrometra			2					3			4 2.5
Hyperplasia, Cystic											4 1.5
Inflammation, Suppurative						1					1 1.0
Vagina											1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	60
Hypercellularity											1 3.0
Myelofibrosis											4 3.3
Lymph Node											12
Mediastinal, Hemorrhage											1 3.0
Mediastinal, Pigmentation											2 3.5
Pancreatic, Pigmentation											1 3.0
Renal, Pigmentation											1 3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	59
Ectasia		2									2 2.0
Hemorrhage											5 1.6
Hyperplasia, Lymphoid	2								2		8 2.1
Pigmentation			2	2		2					15 2.1

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	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	
	9	9	9	9	9	9	9	9	9	9	
.....											
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	3	3	3	3	3	3	3	3	3	3	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	60
Ectasia											1 2.0
Hemorrhage											3 2.0
Hyperplasia, Lymphoid											1 3.0
.....											
Spleen	+	+	+	+	+	+	+	+	+	+	60
Fibrosis											1 2.0
Hematopoietic Cell Proliferation	1										11 1.7
Necrosis											1 3.0
Pigmentation, Hemosiderin	1	3	2	2	2	2	2	2	2	1	29 2.1
.....											
Thymus	M	+	+	+	+	+	+	+	+	+	58
Hemorrhage											1 2.0
.....											
INTEGUMENTARY SYSTEM											
.....											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	59
Ectasia											12 2.7
Hyperplasia		1						2	1		33 1.4
.....											
Skin	+	+	+	+	+	+	+	+	+	+	60
Acanthosis											1 1.0
Cyst Epithelial Inclusion											1
Hyperkeratosis											3 2.0
Inflammation, Chronic											1 2.0
Ulcer											2 1.5
.....											
MUSCULOSKELETAL SYSTEM											

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	0	0	0	0	0	0	0	0	0	0			
DAY ON TEST	4	4	4	4	4	4	4	4	4	4			
	5	5	5	5	5	5	5	5	5	5			
	9	9	9	9	9	9	9	9	9	9			
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0			
ANIMAL ID	0	0	0	0	0	0	0	0	0	0			
UNTREATDCONTROL	3	3	3	3	3	3	3	3	3	3			
	5	5	5	5	5	5	5	5	5	6			
	1	2	3	4	5	6	7	8	9	0			
												* TOTALS	
Bone	+ + + + + + + + + +											60	
Cranium, Osteopetrosis												7	2.3
Femur, Osteopetrosis												5	2.2
Skeletal Muscle												1	
Hemorrhage												1	3.0
NERVOUS SYSTEM													
Brain	+ + + + + + + + + +											60	
Compression												9	3.1
Gliosis												1	3.0
Hydrocephalus												2	2.5
RESPIRATORY SYSTEM													
Lung	+ + + + + + + + + +											60	
Infiltration Cellular, Histiocyte	1											1	1.1
Inflammation, Subacute												1	1.0
Alveolar Epithelium, Hyperplasia												2	3.0
Nose	+ + + + + + + + + +											60	
Exudate	X											7	
Foreign Body												5	2.0
Fungus	X											4	2.7
Mucosa, Hyperplasia												3	2.0
Mucosa, Metaplasia, Squamous	2											4	2.5

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 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

Trachea	+	+	+	+	+	+	+	+	+	+	59
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SPECIAL SENSES SYSTEM

Eye											2
Atrophy											1 4.0
Hemorrhage											1 3.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	60
Cyst	X										1
Mineralization	2	2	3	3	3	2	3	2	3	2	53 2.2
Nephropathy	1	1	1		1	1		1	1		41 1.3
Renal Tubule, Atrophy	3										1 3.0
Renal Tubule, Cytoplasmic Alteration											1 3.0
Renal Tubule, Dilatation											1 2.0
Renal Tubule, Necrosis											1 2.0
Renal Tubule, Pigmentation	1	1	1	2	1	2	2	2	1	1	59 1.4
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	60
Edema											1 2.0
Transitional Epithelium, Hyperplasia											4 1.5

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	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	5	7	7	7	7	7	5	7	7	7	6	7	7	7	7	6	7	7	6	7	7	6	7	7	
	1	2	2	2	3	3	2	9	3	3	3	8	3	3	3	2	3	3	0	3	3	0	3	3	3	
	8	9	5	2	6	6	5	3	7	6	7	9	6	6	7	5	6	6	6	7	6	6	7	6	6	
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	
0.6%	0	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	
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

females (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+
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			
Cyst																									
Eosinophilic Focus					X	X			X	X			X	X	X										X
Granuloma			2		1				1		1											3		1	
Hepatodiaphragmatic Nodule				X							X		X												

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DAY ON TEST	0 0																									females (cont...)				
	6 5 7 7 7 7 7 5 7 7 7 6 7 7 7 7 7 6 7 7 6 7 7 7 7																													
FISCHER 344 RATS FEMALE 0.6% ANIMAL ID	1 2 2 2 3 3 2 9 3 3 3 8 3 3 3 2 3 3 0 3 3 0 3 3 3																													
	8 9 5 2 6 6 5 3 7 6 7 9 6 6 7 5 6 6 6 7 6 6 7 6 6																													
Mixed Cell Focus																										X				
Bile Duct, Hyperplasia	2		1 2																											2 2
Hepatocyte, Hyperplasia, Focal																														
Hepatocyte, Vacuolization Cytoplasmic	3																												3	
Kupffer Cell, Hyperplasia																										2				
Kupffer Cell, Pigmentation																														
Lobules, Necrosis																										1				
Mesentery																														
Fat, Necrosis																										+ 3 + 3				
Oral Mucosa																														
Pancreas																														
Atrophy																														
Edema	3																													
Acinus, Cytoplasmic Alteration																														
Acinus, Hyperplasia, Focal																														
Salivary Glands																														
Atrophy																														
Stomach, Forestomach																														
Edema																														
Ulcer																														
Mucosa, Hyperplasia	4 2																												2	
Stomach, Glandular																														
Erosion																														

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DAY ON TEST	0																								
	6	5	7	7	7	7	7	5	7	7	7	6	7	7	7	7	6	7	6	7	7	6	7	7	7
1	2	2	2	3	3	2	9	3	3	3	8	3	3	3	2	3	3	0	3	3	0	3	3	3	
8	9	5	2	6	6	5	3	7	6	7	9	6	6	7	5	6	6	6	7	6	6	7	6	6	
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	
0.6%	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	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females (cont...)

Ulcer 3

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule																								
Angiectasis			3	2				1			1	1	2	1	3	1			1	1	2		1	
Degeneration, Fatty	2	1				2		2			3		2	1	1	2			1					
Hemorrhage	2																							
Hyperplasia, Focal													1						2					
Hypertrophy, Focal						2		2			3					2	2							
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2																							
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia									2															

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DAY ON TEST	0 0																									
	6 5 7 7 7 7 7 5 7 7 7 6 7 7 7 7 7 6 7 7 6 7 7 7 7																									
FISCHER 344 RATS FEMALE 0.6% ANIMAL ID	1 2 2 2 3 3 2 9 3 3 3 8 3 3 3 2 3 3 0 3 3 0 3 3 3																									
	8 9 5 2 6 6 5 3 7 6 7 9 6 6 7 5 6 6 6 7 6 6 7 6 6																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	
	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	

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Angiectasis			3		3											4	2								
Pars Distalis, Cyst				X		X	X		X		X	X	X		X	X									X
Pars Distalis, Hyperplasia, Focal					1		1				2				3			3			3				
Pars Intermedia, Angiectasis									2																
Pars Intermedia, Cyst																									
Pars Intermedia, Hyperplasia															2										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ultimobranchial Cyst																							X		
C-cell, Hyperplasia						1										2					1				
Follicle, Cyst													X												

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia		2	4		3	3					3				3			3	3	3			4	2	3
Hyperplasia			2																				2		
Inflammation, Suppurative			2																			2			
Inflammation, Chronic						2							4												
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst													3											X	

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DAY ON TEST	0 0																								
	6 5 7 7 7 7 7 5 7 7 7 6 7 7 7 7 7 6 7 7 6 7 7 7 7																								
FISCHER 344 RATS FEMALE 0.6% ANIMAL ID	1 2 2 2 3 3 2 9 3 3 3 8 3 3 3 2 3 3 0 3 3 0 3 3 3																								
	8 9 5 2 6 6 5 3 7 6 7 9 6 6 7 5 6 6 6 7 6 6 7 6 6																								
0.6% ANIMAL ID	0 0																								
	0 0																								
	3 3																								
	6 6																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								
females (cont...)																									
Uterus	+ +																								
Hydrometra																									
Hyperplasia, Cystic	2												3												
Vagina	M		M																						

HEMATOPOIETIC SYSTEM

Bone Marrow	+ +																										
Hypercellularity	4																										
Myelofibrosis	2												2														
Lymph Node	+		+																					+			
Iliac, Hyperplasia, Lymphoid	3																										
Iliac, Pigmentation																											
Mediastinal, Hemorrhage	2																										
Mediastinal, Hyperplasia, Lymphoid	3																										
Mediastinal, Pigmentation	3																						3				
Pancreatic, Pigmentation	3												2														
Renal, Hemorrhage	1																										
Renal, Hyperplasia, Lymphoid	3																										
Renal, Pigmentation	3																									4 4	
Lymph Node, Mandibular	+ +																										
Ectasia																											
Hemorrhage	3												2														
Hyperplasia, Lymphoid	2																										
Pigmentation	2																						2 2 2 2				

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DAY ON TEST	0																								
	6	5	7	7	7	7	7	5	7	7	7	6	7	7	7	7	6	7	7	6	7	7	7		
	1	2	2	2	3	3	2	9	3	3	3	8	3	3	3	2	3	3	0	3	3	0	3	3	
	8	9	5	2	6	6	5	3	7	6	7	9	6	6	7	5	6	6	6	7	6	6	7	6	
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	
0.6%	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	
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	
	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...)

Lymph Node, Mesenteric Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid				3					3											1					
Spleen Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation				4					4											3					
Hemorrhage				4										2		2	2				1			1	
Pigmentation, Hemosiderin			2							2	2			2	3	2	2	3			2	3		2	2
Thymus Cyst	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																									

INTEGUMENTARY SYSTEM

Mammary Gland Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	3	3			3	2																			
	1		1	2		1		1	2	2	2	2	2	1	1		2	2	2	2	1	1	1	2	1
Skin Acanthosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperkeratosis																									
Ulcer																								3	

MUSCULOSKELETAL SYSTEM

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

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1	2	2	2	3	3	2	9	3	3	3	8	3	3	3	2	3	3	0	3	3	0	3	3	3	
8	9	5	2	6	6	5	3	7	6	7	9	6	6	7	5	6	6	6	7	6	6	7	6	6	
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	
0.6%	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	
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	
	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...)

Cranium, Hyperostosis
 Cranium, Osteopetrosis
 Femur, Osteopetrosis

NERVOUS SYSTEM

Brain
 Compression
 Hemorrhage
 Hydrocephalus
 Necrosis

RESPIRATORY SYSTEM

Lung
 Hemorrhage
 Infiltration Cellular, Histiocyte

Nose
 Exudate
 Foreign Body
 Fungus
 Mucosa, Hyperplasia

Trachea

SPECIAL SENSES SYSTEM

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0 0																								
	6 5 7 7 7 7 7 5 7 7 7 6 7 7 7 7 7 6 7 7 6 7 7 7 7																								
FISCHER 344 RATS FEMALE 0.6% ANIMAL ID	1 2 2 2 3 3 2 9 3 3 3 8 3 3 3 2 3 3 0 3 3 0 3 3 3																								
	8 9 5 2 6 6 5 3 7 6 7 9 6 6 7 5 6 6 6 7 6 6 7 6 6																								
	0 0																								
	0 0																								
	3 3																								
	6 6																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								

females
(cont...)

NONE

URINARY SYSTEM

Kidney	+ +																								
Cyst																									
Mineralization	1 3 1																								
Nephropathy	1 1 1 1 1 1 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								
Renal Tubule, Atrophy																									
Renal Tubule, Pigmentation	1 3 1 2 2 1 2 4 2 1 1 1 1 1 1 1 1 1 3 1 1 1 1 1 1																								
Transitional Epithelium, Hyperplasia	1 1																								
Urinary Bladder	+ +																								

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 165

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

	DAY ON TEST																								females (cont...)	
	0 7 3 7	0 7 3 6	0 6 1 3	0 7 4 8	0 4 0 5	0 7 3 6	0 6 8 2	0 7 3 7	0 7 0 1	0 7 3 6	0 7 3 6	0 7 0 3	0 7 3 7	0 7 2 5	0 7 2 7	0 6 4 1	0 7 3 6	0 7 3 7	0 7 3 6	0 7 3 6	0 7 3 7	0 7 3 6	0 7 3 7	0 4 3 6		
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	
0.6%	0	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	4	4	4	4	4	4	4	4	4	4	4	
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	
	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	
Mixed Cell Focus										X	X								X							
Bile Duct, Hyperplasia			2			3				1			1		2				1				1			
Hepatocyte, Hyperplasia, Focal						3																				
Hepatocyte, Vacuolization Cytoplasmic																			3							
Kupffer Cell, Hyperplasia																										
Kupffer Cell, Pigmentation																			1							
Lobules, Necrosis						2																				
Mesentery				+	+																					
Fat, Necrosis				3	3			2	4															3		
Oral Mucosa				+																						
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy		3			1	2			2					2						1	2			3		
Edema																										
Acinus, Cytoplasmic Alteration																										
Acinus, Hyperplasia, Focal															2											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy															2											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Edema																								2		
Ulcer																										
Mucosa, Hyperplasia																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Erosion																										

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 I .. Insufficient tissue
 M .. Missing tissue
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 2) Mild 4) Marked
 Page 167

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	6	7	4	7	6	7	7	7	7	7	7	7	2	6	7	7	7	7	7	7	7	7	4
	3	3	6	1	0	3	8	3	0	3	3	0	3	2	2	4	1	3	3	3	3	3	3	5	
	7	6	3	8	5	6	2	7	1	6	6	3	7	6	5	7	1	6	6	7	6	6	7	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	
0.6%	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	4	4	4	4	4	4	4	4	4	4	
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
																								females (cont...)	

Ulcer

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule	3		1			3	1						2							1				
Angiectasis		1		1			3	2		2				1					2	2	1		1	1
Degeneration, Fatty	2					3		1			3			1										
Hemorrhage																								
Hyperplasia, Focal											3				1									
Hypertrophy, Focal	2					3		1						1					2					
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia														2										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				2																				
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

FISCHER 344 RATS FEMALE

0.6%

ANIMAL ID

females
(cont...)

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

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Angiectasis				3							4					4						2	
Pars Distalis, Cyst			X					X		X	X				X	X			X		X	X	
Pars Distalis, Hyperplasia, Focal			2				1				1	2				1							
Pars Intermedia, Angiectasis													2								3		
Pars Intermedia, Cyst							X													X			
Pars Intermedia, Hyperplasia																							
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ultimobranchial Cyst																							
C-cell, Hyperplasia									2				2					2					
Follicle, Cyst																							

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia	3									3		4	3	3				2	3	2	3		
Hyperplasia										3												2	
Inflammation, Suppurative										3		2									4		
Inflammation, Chronic																	2					2	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst							X					X						X					

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	6	7	4	7	6	7	7	7	7	7	7	7	2	6	7	7	7	7	7	7	7	7	7	4
	3	3	6	1	0	3	8	3	0	3	3	0	3	2	2	4	1	3	3	3	3	3	3	3	5	
	7	6	3	8	5	6	2	7	1	6	6	3	7	6	5	7	1	6	6	7	6	6	7	6	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	
0.6%	0	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	4	4	4	4	4	4	4	4	4	4	4	
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	
	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	

**females
(cont...)**

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hydrometra											2														2
Hyperplasia, Cystic			2																		1				
Vagina																									

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypercellularity																									
Myelofibrosis											1														
Lymph Node		+	+																						+
Iliac, Hyperplasia, Lymphoid																									
Iliac, Pigmentation																									3
Mediastinal, Hemorrhage																									
Mediastinal, Hyperplasia, Lymphoid																									
Mediastinal, Pigmentation				3																					
Pancreatic, Pigmentation																									
Renal, Hemorrhage				3																					
Renal, Hyperplasia, Lymphoid																									
Renal, Pigmentation			4	3																					
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia				2											2										2
Hemorrhage								3														1			
Hyperplasia, Lymphoid				3								2								2					2
Pigmentation	2	2	2			2		2		2				2	2	2			2			2	2	2	

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 BUTYL BENZYL PHTHALATE
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 Lab: SRI

DAY ON TEST	0 0																								0	
	7 7 6 7 4 7 6 7 7 7 7 7 7 7 2 6 7 7 7 7 7 7 7 7 4																									
FISCHER 344 RATS FEMALE 0.6% ANIMAL ID	3 3 6 1 0 3 8 3 0 3 3 0 3 2 2 4 1 3 3 3 3 3 3 3 5																								females (cont...)	
	7 6 3 8 5 6 2 7 1 6 6 3 7 6 5 7 1 6 6 7 6 6 7 6 9																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	4	4	4	4	4	4	4	4	4	4	4	
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1
	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	0

Lymph Node, Mesenteric Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid																									3
Spleen Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	1	2																							1
Hemorrhage																									
Pigmentation, Hemosiderin	1	2																							2
Thymus Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																									

INTEGUMENTARY SYSTEM

Mammary Gland Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	1	1		1		2		1	1	1	2	1	1	1	2		1	2		1	1	1	2		
Skin Acanthosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperkeratosis																									3
Ulcer																									2

MUSCULOSKELETAL SYSTEM

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

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 + .. Tissue examined microscopically
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DAY ON TEST	ANIMAL ID																								females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	6	7	4	7	6	7	7	7	7	7	7	7	7	2	6	7	7	7	7	7	7	7	4	
3	3	6	1	0	3	8	3	0	3	3	0	3	2	2	4	1	3	3	3	3	3	3	5		
7	6	3	8	5	6	2	7	1	6	6	3	7	6	5	7	1	6	6	7	6	6	7	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		
0.6%	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	4	4	4	4	4	4	4	4	4		
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	1		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	0		

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																							
Mineralization		1			2	2	3	3			2		2	1	1	2	1	2	1	2	1	2	2
Nephropathy	2	1	1	1		1	1	1	1	1	1	1	2	1	1		1	1	1	1	1	1	1
Renal Tubule, Atrophy			2																				
Renal Tubule, Pigmentation	1	1	2	1	1	2	1	2	2	1	1	1	2	2	1	1	2	2	2	2	1	1	2
Transitional Epithelium, Hyperplasia																1							
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 + .. Tissue examined microscopically
 x .. Lesion present
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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	2	5	5	5	5	5
	9	9	9	9	4	9	9	9	9	9
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	4	4	4	4	4	4	4	4	4	4
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	60
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	60
Parasite Metazoan						X					1
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	58
Parasite Metazoan											2
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	60
Parasite Metazoan											5
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	60
Inflammation, Chronic											1 3.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	59
Liver	+	+	+	+	+	+	+	+	+	+	60
Angiectasis											1 3.0
Basophilic Focus	X	X	X	X		X	X	X	X	X	48
Clear Cell Focus											3
Cyst											1
Eosinophilic Focus	X										16
Granuloma		1		1							14 1.3
Hepatodiaphragmatic Nodule	X										7

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	4	
		5	5	5	5	2	5	5	5	5	5	
		9	9	9	9	4	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	
		4	4	4	4	4	4	4	4	4	4	
		1	1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	0	
0.6%												* TOTALS
Mixed Cell Focus												4
Bile Duct, Hyperplasia												12 1.7
Hepatocyte, Hyperplasia, Focal												1 3.0
Hepatocyte, Vacuolization Cytoplasmic												6 3.0
Kupffer Cell, Hyperplasia												1 2.0
Kupffer Cell, Pigmentation												1 1.0
Lobules, Necrosis												3 2.3
Mesentery												8
Fat, Necrosis												7 3.0
Oral Mucosa												1
Pancreas		+	+	+	+	+	+	+	+	+	+	60
Atrophy			3						1			20 1.6
Edema												1 3.0
Acinus, Cytoplasmic Alteration												1 3.0
Acinus, Hyperplasia, Focal												4 2.5
Salivary Glands		+	+	+	+	+	+	+	+	+	+	60
Atrophy												2 2.0
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	60
Edema												1 2.0
Ulcer												1 4.0
Mucosa, Hyperplasia												2 2.0
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	60
Erosion												2 1.5

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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	2	5	5	5	5	5
	9	9	9	9	4	9	9	9	9	9
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	4	4	4	4	4	4	4	4	4	4
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Ulcer 1 3.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	60
Heart	+	+	+	+	+	+	+	+	+	+	60
Cardiomyopathy	1										22 1.7

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60
Accessory Adrenal Cortical Nodule								X			7 1.8
Angiectasis	1		1				1	1		1	29 1.4
Degeneration, Fatty								2			16 1.8
Hemorrhage											1 2.0
Hyperplasia, Focal											4 1.8
Hypertrophy, Focal			1		1						12 1.8
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	59
Hyperplasia											2 2.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	60
Hyperplasia											1 2.0
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	59
Hyperplasia											1 2.0

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Page 176

1-4 .. Lesion qualified as:

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TDMS No. 05094 - 02
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 Species/Strain: RATS/F 344

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	2	5	5	5	5	5
	9	9	9	9	4	9	9	9	9	9
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	4	4	4	4	4	4	4	4	4	4
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	60
Pars Distalis, Angiectasis				3							9 3.1
Pars Distalis, Cyst	X	X	X	X	X	X	X	X	X	X	30
Pars Distalis, Hyperplasia, Focal		2				1					13 1.8
Pars Intermedia, Angiectasis											3 2.3
Pars Intermedia, Cyst									X		3
Pars Intermedia, Hyperplasia											1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	60
Ultimobranchial Cyst	X							X		X	4
C-cell, Hyperplasia										2	7 1.7
Follicle, Cyst											1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	60
Ectasia											21 3.0
Hyperplasia											4 2.3
Inflammation, Suppurative											5 2.6
Inflammation, Chronic		2							2		6 2.3
Ovary	+	+	+	+	+	+	+	+	+	+	60
Cyst											5 3.0

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Page 177

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TDMS No. 05094 - 02
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	2	5	5	5	5	5	
	9	9	9	9	4	9	9	9	9	9	
<hr/>											
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.6%	4	4	4	4	4	4	4	4	4	4	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
<hr/>											
Uterus	+	+	+	+	+	+	+	+	+	+	60
Hydrometra	2								1		4 1.8
Hyperplasia, Cystic											4 2.0
<hr/>											
Vagina											0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	60
Hypercellularity					3						2 3.5
Myelofibrosis											3 1.7
<hr/>											
Lymph Node	+										12
Iliac, Hyperplasia, Lymphoid											1 3.0
Iliac, Pigmentation											1 3.0
Mediastinal, Hemorrhage					3						2 2.5
Mediastinal, Hyperplasia, Lymphoid											1 3.0
Mediastinal, Pigmentation					4						6 3.2
Pancreatic, Pigmentation											2 2.5
Renal, Hemorrhage											2 2.0
Renal, Hyperplasia, Lymphoid											1 3.0
Renal, Pigmentation											5 3.6
<hr/>											
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	60
Ectasia					2	2					5 2.0
Hemorrhage					1						9 2.0
Hyperplasia, Lymphoid			2								7 2.1
Pigmentation	2					3		2		2	27 2.0

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Page 178

1-4 .. Lesion qualified as:

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 Species/Strain: RATS/F 344

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4		
	5	5	5	5	2	5	5	5	5	5		
	9	9	9	9	4	9	9	9	9	9		
FISCHER 344 RATS FEMALE												
0.6%	ANIMAL ID	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
		4	4	4	4	4	4	4	4	4		
		1	1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	0	
											* TOTALS	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	60	
Hemorrhage												3 2.3
Hyperplasia, Lymphoid												2 3.0
Spleen	+	+	+	+	+	+	+	+	+	+	60	
Fibrosis												2 3.5
Hematopoietic Cell Proliferation		1			3					1		15 1.7
Hemorrhage												1 2.0
Pigmentation, Hemosiderin	2	2	2	2	2	2	3	2	2	3		30 2.1
Thymus	+	+	+	+	+	+	M	+	+	+	59	
Cyst												1
Hemorrhage	2											1 2.0
INTEGUMENTARY SYSTEM												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	60	
Ectasia												9 2.8
Hyperplasia	1			1								41 1.4
Skin	+	+	+	+	+	+	+	+	+	+	60	
Acanthosis												2 3.0
Hyperkeratosis												2 2.5
Ulcer												4 2.5
MUSCULOSKELETAL SYSTEM												
Bone	+	+	+	+	+	+	+	+	+	+	60	

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 BLANK .. Not examined microscopically
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 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4		
	5	5	5	5	2	5	5	5	5	5		
	9	9	9	9	4	9	9	9	9	9		
.....												
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
0.6%	4	4	4	4	4	4	4	4	4	4		
	1	1	1	1	1	1	1	1	1	2		
	1	2	3	4	5	6	7	8	9	0		
											* TOTALS	
Cranium, Hyperostosis											2	1 2.0
Cranium, Osteopetrosis											2	11 2.5
Femur, Osteopetrosis											2	7 2.4

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60	
Compression											6	2.8
Hemorrhage											1	2.0
Hydrocephalus											3	2.0
Necrosis											1	3.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	60	
Hemorrhage											2	3.0
Infiltration Cellular, Histiocyte											1	23 1.2
Nose	+	+	+	+	+	+	+	+	+	+	60	
Exudate											4	
Foreign Body											2	4 2.0
Fungus											1	3.0
Mucosa, Hyperplasia											2	1.5
Trachea	+	+	+	+	+	+	+	+	+	+	60	

SPECIAL SENSES SYSTEM

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1-4 .. Lesion qualified as:
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	2	5	5	5	5	5
	9	9	9	9	4	9	9	9	9	9
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.6%	4	4	4	4	4	4	4	4	4	4
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	60
Cyst						X			X		2
Mineralization	2	2	1	1	2	3	2	1	2		43 1.7
Nephropathy	1	1	1	1	1	1	1	1	1		57 1.1
Renal Tubule, Atrophy											1 2.0
Renal Tubule, Pigmentation	2	2	2	1	2	2	2	2	2		59 1.5
Transitional Epithelium, Hyperplasia											3 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	60

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I .. Insufficient tissue

M .. Missing tissue

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Page 181

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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Route: DOSED FEED

Species/Strain: RATS/F 344

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BUTYL BENZYL PHTHALATE

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First Dose M/F: 06/26/89 / 06/26/89

Lab: SRI

	DAY ON TEST																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	5	7	7	5	5	7	7	6	6	6	7	7	7	7	7	7	6	7	7	7	7	7	
	3	3	4	0	3	4	0	3	3	4	4	6	3	3	3	2	3	3	3	0	3	3	2	2	3
	6	6	4	3	7	4	9	6	6	7	7	6	7	6	6	2	7	6	6	7	7	6	5	6	6
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	
1.2%	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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M
Edema																									
Parasite Metazoan																									
Ulcer																									
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	
Parasite Metazoan				X													X								
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan		X				X			X			X					X					X			
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis	2																								
Basophilic Focus	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	
Cyst																									
Eosinophilic Focus				X								X					X	X						X	
Granuloma		1				1		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
 Page 182
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 Lab: SRI

DAY ON TEST	0 0																								females (cont...)	
	7 7 5 7 7 5 5 7 7 6 6 6 7 7 7 7 7 7 6 7 7 7 7 7																									
FISCHER 344 RATS FEMALE 1.2% ANIMAL ID	3 3 4 0 3 4 0 3 3 4 4 6 3 3 3 2 3 3 3 0 3 3 2 2 3																									
	6 6 4 3 7 4 9 6 6 7 7 6 7 6 6 2 7 6 6 7 7 6 5 6 6																									
Hepatodiaphragmatic Nodule																			X		X			X		
Mixed Cell Focus																										
Thrombosis				X					X																	
Bile Duct, Hyperplasia																										
Centrilobular, Necrosis																										
Hepatocyte, Vacuolization Cytoplasmic																										
Kupffer Cell, Pigmentation																										
Mesentery																										
Accessory Spleen																										
Fat, Necrosis																										
Pancreas																										
Atrophy																										
Acinus, Cytoplasmic Alteration																										
Acinus, Hyperplasia, Focal																										
Salivary Glands																										
Stomach, Forestomach																										
Edema																										
Mucosa, Hyperplasia																										
Stomach, Glandular																										
Edema																										
Hyperplasia																										
Ulcer																										
Tongue																										

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 Lab: SRI

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	5	7	7	5	5	7	7	6	6	6	7	7	7	7	7	7	6	7	7	7	7	7	7	
	3	3	4	0	3	4	0	3	3	4	4	6	3	3	3	2	3	3	3	0	3	3	2	2	3	
	6	6	4	3	7	4	9	6	6	7	7	6	7	6	6	2	7	6	6	7	7	6	5	6	6	
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	
1.2%	0	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	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	
	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	
	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...)
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pars Distalis, Angiectasis	3	2			4					3									3							
Pars Distalis, Cyst	X				X			X				X			X			X		X				X		
Pars Distalis, Hemorrhage																										
Pars Distalis, Hyperplasia, Focal	3											3				2		2		2						
Pars Intermedia, Angiectasis													4											3		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ultimobranchial Cyst																			X							
C-cell, Hyperplasia									1								1	2						1		
Follicle, Cyst																										

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia		3						3		2		3	4		2		2						3		
Hyperplasia													3												
Inflammation, Suppurative												3	3				3								
Inflammation, Chronic													3												
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst		X		X							X														
Inflammation, Chronic																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 185

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0 0																									
	7 7 5 7 7 5 5 7 7 6 6 6 7 7 7 7 7 7 6 7 7 7 7 7 7																									
FISCHER 344 RATS FEMALE 1.2% ANIMAL ID	3 3 4 0 3 4 0 3 3 4 4 6 3 3 3 2 3 3 3 0 3 3 2 2 3																									
	6 6 4 3 7 4 9 6 6 7 7 6 7 6 6 2 7 6 6 7 7 6 5 6 6																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	
	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	

Cyst
 Hydrometra
 Hyperplasia, Cystic

2

2

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Myelofibrosis		2			2																				3
Lymph Node										+															+
Mediastinal, Hemorrhage																									
Mediastinal, Pigmentation																									
Pancreatic, Hemorrhage																									
Pancreatic, Pigmentation																									
Renal, Hemorrhage																									
Renal, Pigmentation																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																									
Hemorrhage																									
Hyperplasia, Lymphoid																									
Pigmentation																									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																									
Hyperplasia, Lymphoid																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis																									

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

Page 186

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 5 7 7 5 5 7 7 6 6 6 7 7 7 7 7 7 6 7 7 7 7 7 7																								
FISCHER 344 RATS FEMALE 1.2% ANIMAL ID	3 3 4 0 3 4 0 3 3 4 4 6 3 3 3 2 3 3 3 0 3 3 2 2 3																								
	6 6 4 3 7 4 9 6 6 7 7 6 7 6 6 2 7 6 6 7 7 6 5 6 6																								
FISCHER 344 RATS FEMALE 1.2% ANIMAL ID	0 0																								
	0 0																								
	4 4																								
	2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4																								
	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...)																								

Hematopoietic Cell Proliferation																											
Pigmentation, Hemosiderin	2		2																								
Thymus Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

INTEGUMENTARY SYSTEM

Mammary Gland	+ +																										
Ectasia																											
Hyperplasia	2	2	2	1	3																						
Inflammation, Chronic Active																											
Skin	+ +																										
Cyst Epithelial Inclusion																											
Developmental Malformation																											
Hemorrhage																											
Hyperkeratosis	2																										

MUSCULOSKELETAL SYSTEM

Bone	+ +																								
Cranium, Osteopetrosis																									
Femur, Osteopetrosis																									
Femur, Osteosclerosis																									

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
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 2) Mild 4) Marked
 Page 187

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	5	7	7	5	5	7	7	6	6	6	7	7	7	7	7	7	6	7	7	7	7	7		
	3	3	4	0	3	4	0	3	3	4	4	6	3	3	3	2	3	3	3	0	3	3	2	2	3	
	6	6	4	3	7	4	9	6	6	7	7	6	7	6	6	2	7	6	6	7	7	6	5	6	6	
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	
1.2%	0	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	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	
	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	females (cont...)
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Brain
 Compression
 Hemorrhage

+ +

2 2 4

RESPIRATORY SYSTEM

Lung
 Congestion
 Infiltration Cellular, Histiocyte
 Inflammation, Subacute
 Alveolar Epithelium, Hyperplasia

+ +

1 1 1 1 1 1

3 1

Nose
 Exudate
 Foreign Body
 Fungus
 Mucosa, Hyperplasia
 Mucosa, Metaplasia, Squamous

+ +

X X

4 2 2

Trachea

+ +

SPECIAL SENSES SYSTEM

Ear

Eye

+

* .. 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:
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 2) Mild 4) Marked

Page 188

TDMS No. 05094 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
BUTYL BENZYL PHTHALATE
CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:43:22
First Dose M/F: 06/26/89 / 06/26/89
Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| | 7 | 7 | 5 | 7 | 7 | 5 | 5 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 4 | 0 | 3 | 4 | 0 | 3 | 3 | 4 | 4 | 6 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 0 | 3 | 3 | 2 | 2 | 3 |
| | 6 | 6 | 4 | 3 | 7 | 4 | 9 | 6 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 2 | 7 | 6 | 6 | 7 | 7 | 6 | 5 | 6 | 6 |
| 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 |
| 1.2% | 0 | 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 | 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 |
| | 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 |
| | 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...) |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | | 2 | | | 1 | 1 | 1 | | 2 | | 2 | | 1 | 1 | 1 | 2 | | | 1 | 1 | 2 | 1 | 2 | 2 |
| Nephropathy | 1 | 1 | 1 | 1 | | 1 | | 1 | 3 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 |
| Renal Tubule, Atrophy | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked
Page 189

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|----------------------|
| | 0
7
3
7 | 0
7
2
5 | 0
7
3
6 | 0
6
4
6 | 0
5
7
2 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
6
7
0 | 0
7
3
8 | 0
7
2
6 | 0
7
3
8 | 0
7
2
8 | 0
7
3
4 | 0
7
2
7 | 0
7
3
8 | 0
7
3
8 | 0
7
3
7 | 0
5
5
1 | 0
2
8
5 | 0
7
3
7 | 0
7
3
7 | | |
| 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 | | |
| 1.2% | 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 | 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 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | |
| Hepatodiaphragmatic Nodule | X | | | X | | | | | | | | | | | | | | X | | | | | | | |
| Mixed Cell Focus | | | X | | | | X | | | | | | | | | | | | | X | | X | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Bile Duct, Hyperplasia | | 1 | | | | | | 1 | | | | 1 | | | 1 | | | 1 | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | 4 | | | 2 | | | 2 | | | | | | |
| Mesentery | | | | + | | | | | | + | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | 1 | | | | | | | | 2 | | | 1 | | 1 | | | 1 | 1 | | 1 | | 3 | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | + | | |

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 I .. Insufficient tissue
 M .. Missing tissue
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TDMS No. 05094 - 02
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 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 7 6 5 7 7 7 7 6 7 7 7 7 4 7 7 7 7 5 2 7 7 7 | | | | | | | | | | | | | | | | | | | | | | |
| | 3 2 3 4 7 3 3 3 3 7 3 2 3 3 2 7 3 3 3 5 8 3 3 3 | | | | | | | | | | | | | | | | | | | | | | |
| | 7 5 6 6 2 7 7 7 7 0 8 6 8 8 4 9 7 8 8 7 1 5 3 7 7 | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | |
| 1.2% | 0 | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 4 | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

Epithelium, Hyperplasia 3

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Adrenal Cortical Nodule | 2 2 | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 1 2 1 1 1 1 2 1 1 1 | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | 2 3 2 3 1 | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | 3 2 1 2 | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 4 2 | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 1 1 | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 192

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| | 7 7 7 6 5 7 7 7 7 6 7 7 7 7 4 7 7 7 7 5 2 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
1.2% ANIMAL ID | 3 2 3 4 7 3 3 3 3 7 3 2 3 3 2 7 3 3 3 5 8 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 5 6 6 2 7 7 7 7 0 8 6 8 8 4 9 7 8 8 7 1 5 3 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | | 2 | 3 | | | | | | | | | | | | | | | | | | 4 |
| Pars Distalis, Cyst | | | | X | | | X | X | | | X | X | | | X | X | | | | | | | X | |
| Pars Distalis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | | 2 | | | 3 | | | | | | | | | | 1 | | | | | | | | 4 | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | 1 | 2 | | | | | | | | | | 1 | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | X | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | 3 | 3 | | | 2 | | | | | | | | | 3 | 3 | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Suppurative | | 1 | 3 | | | | | | | | 2 | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | X | | | | | | | | | | | | | X | | | | | | | X |
| Inflammation, Chronic | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|
| | 7 7 7 6 5 7 7 7 7 6 7 7 7 7 4 7 7 7 7 5 2 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 2 3 4 7 3 3 3 3 7 3 2 3 3 2 7 3 3 3 5 8 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 5 6 6 2 7 7 7 7 0 8 6 8 8 4 9 7 8 8 7 1 5 3 7 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | |
| 1.2% | 0 | 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 | 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 | |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Hematopoietic Cell Proliferation | 2 | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | |
| Pigmentation, Hemosiderin | 2 | | 3 | 3 | 3 | 2 | | | 2 | 3 | | | | 2 | | 3 | | | | | 3 | | | 2 | |
| Thymus Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | 3 | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | 1 | | 2 | | | | 2 | 3 | 3 | | 3 | 3 | | | | | | | | 3 | |
| Hyperplasia | | | 1 | | | 1 | | 1 | | 1 | | | 1 | 2 | | | | 2 | | 2 | 1 | | | 1 |
| Inflammation, Chronic Active | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | X | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | 4 | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cranium, Osteopetrosis | | | | | | | | | 3 | | | | | 3 | | | 2 | | | 2 | | | 2 | |
| Femur, Osteopetrosis | | | | | | | | | | | | | 4 | | | | | | 3 | | | | 2 | |
| Femur, Osteosclerosis | | | | | | | | | | | | | | | | | | | | | | | | X |

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

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Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.2% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| * TOTALS | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 59 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 59 |
| Edema | | | | | | | | | | | 2 3.5 |
| Parasite Metazoan | | | | | | | | | | | 1 |
| Ulcer | | | | | | | | | | | 1 4.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 59 |
| Parasite Metazoan | | | | | | | | | | | 3 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 60 |
| Parasite Metazoan | | | | | | | | | | | 11 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 60 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 60 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 60 |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 |
| Angiectasis | | | | | | | | | | | 4 2.0 |
| Basophilic Focus | X | X | X | | X | X | X | | X | X | 49 |
| Clear Cell Focus | | | | | | | | | | | 8 |
| Cyst | | | | | | | | | | | 2 |
| Eosinophilic Focus | X | | | | | | | | | | 10 |
| Granuloma | | | | | | 1 | 1 | | 1 | | 9 1.2 |

* .. 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:
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 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1.2% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | X | X | | | | | | | | 8 |
| Mixed Cell Focus | | | | | | | | | | | 5 |
| Thrombosis | | | | | | | | | | | 1 |
| Bile Duct, Hyperplasia | | | | | | | | | | | 12 1.3 |
| Centrilobular, Necrosis | | | | | | | | | | | 1 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | 2 3.0 |
| Kupffer Cell, Pigmentation | | | | | | | 1 | | | | 6 2.3 |
| | | | | | | | | | | | |
| Mesentery | | + | | | + | + | | | + | | 12 |
| Accessory Spleen | | X | | | | | | | | | 2 |
| Fat, Necrosis | | | | | 1 | 3 | | | 3 | | 9 2.8 |
| | | | | | | | | | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | 60 |
| Atrophy | | | | | | | | | | | 16 1.4 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | 1 2.0 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | 2 2.5 |
| | | | | | | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | 60 |
| | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | 60 |
| Edema | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | 2 3.5 |
| | | | | | | | | | | | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | 60 |
| Edema | | | | | | | | | | | 1 3.0 |
| Hyperplasia | | | | | | | | | | | 1 2.0 |
| Ulcer | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | |
| Tongue | | | | | | | | | | | 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
 Page 199

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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.2% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| * TOTALS | | | | | | | | | | |

Epithelium, Hyperplasia 1 3.0

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 60 |
| Heart | + | + | + | + | + | + | + | + | + | + | 60 |
| Cardiomyopathy | | | | | | | 2 | | | | 24 1.8 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 60 |
| Accessory Adrenal Cortical Nodule | | | X | | | X | | | | | 10 1.9 |
| Angiectasis | | 2 | 1 | 1 | 1 | | 1 | 2 | | 2 | 33 1.6 |
| Degeneration, Fatty | | | | | | | | | | | 11 2.1 |
| Hyperplasia, Focal | | | | | | | | | | | 2 2.0 |
| Hypertrophy, Focal | | | 1 | | | | | | 1 | | 9 1.7 |
| Necrosis | | | | | | | | | | | 1 4.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 60 |
| Hyperplasia | | | | | | | | | | | 4 1.5 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 60 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 59 |
| Cyst | | | | | | | | | 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

Page 200

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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 Lab: SRI

| | DAY ON TEST | | | | | | | | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1.2% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | * TOTALS |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 58 |
| Pars Distalis, Angiectasis | | | | | 2 | | | | | | 9 2.9 |
| Pars Distalis, Cyst | X | X | X | X | X | X | | X | | | 24 |
| Pars Distalis, Hemorrhage | | | | | | | 1 | | | | 1 1.0 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | 9 2.4 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | 3 3.3 |
| | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Ultimobranchial Cyst | | | | | | | | | | | 1 |
| C-cell, Hyperplasia | 1 | | | | | | | | | | 8 1.3 |
| Follicle, Cyst | | | | | | | | | | | 1 |
| | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | | | | | 13 2.8 |
| Hyperplasia | | | | | | | | | | | 2 2.5 |
| Inflammation, Suppurative | | | | | | | | | | | 6 2.5 |
| Inflammation, Chronic | | | | 2 | | | | | | | 4 2.3 |
| | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | 6 |
| Inflammation, Chronic | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | 60 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 BLANK .. Not examined microscopically
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 2) Mild 4) Marked

TDMS No. 05094 - 02
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 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|--|---|---|---|---|---|---|---|---|---|-----------------|--|
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1.2% | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | * TOTALS | |
| Cyst | | | | | | | | | | | 1 2.0 | |
| Hydrometra | | 2 | | | | | | | | | 5 2.6 | |
| Hyperplasia, Cystic | | 3 | | | | | | | | | 1 2.0 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---------------|-----------|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 | |
| Myelofibrosis | | | | | | | | | | 6 2.3 | | |
| Lymph Node | | | | | | | | | | 17 | | |
| Mediastinal, Hemorrhage | + | | | | | | | | | 2 2.5 | | |
| Mediastinal, Pigmentation | 3 | | | | | | | | | 10 2.7 | | |
| Pancreatic, Hemorrhage | 3 | | | | | | | | | 1 3.0 | | |
| Pancreatic, Pigmentation | | | | | | | | | | 3 3.0 | | |
| Renal, Hemorrhage | | | | | | | | | | 2 2.0 | | |
| Renal, Pigmentation | | | | | | | | | | 3 3.3 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 60 | |
| Ectasia | 2 | | | | | | | | | 4 2.3 | | |
| Hemorrhage | | | | | | | | | | 3 2.0 | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | 4 2.5 | | |
| Pigmentation | 2 | | | | | | | | | 17 2.0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 60 | |
| Hemorrhage | | | | | | | | | | 3 2.7 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | 1 2.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | 60 | |
| Fibrosis | | | | | | | | | | 3 3.0 | | |

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1.2% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Hematopoietic Cell Proliferation | 2 | | 2 | | | | 1 | | | | 11 1.8 |
| Pigmentation, Hemosiderin | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 31 2.3 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 60 |
| Hemorrhage | | | | | | | | | | | 1 3.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | | | | | 20 2.3 |
| Hyperplasia | | | | 1 | | | 1 | | | 2 | 25 1.4 |
| Inflammation, Chronic Active | | | | | | | | | | | 1 3.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst Epithelial Inclusion | | | | | | | | | | | 1 |
| Developmental Malformation | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | 2 2.0 |
| Hyperkeratosis | | | | | | | | | | | 3 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | 60 |
| Cranium, Osteopetrosis | | | | | | | | | | 3 | 10 2.6 |
| Femur, Osteopetrosis | | | | | | | | | | 3 | 7 2.7 |
| Femur, Osteosclerosis | | | | | | | | | | 1 | 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| | DAY ON TEST | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1.2% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

| | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | 60 | |
| Compression | | | | | | | | | | | | 9 2.3 |
| Hemorrhage | | | | | | | | | | | | 1 3.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | 60 | |
| Congestion | | | | | | | | | | | | 1 4.0 |
| Infiltration Cellular, Histiocyte | | | | 1 | | | 1 | | | 1 | | 21 1.2 |
| Inflammation, Subacute | | | | | | | | | | | | 2 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | 4 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | 60 | |
| Exudate | | | | | | | | | | | | 2 |
| Foreign Body | | | | | | | | | | | | 1 2.0 |
| Fungus | | | | | | | | | | | | 1 4.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | | 2 2.0 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 60 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|---|--|
| Ear | | | | | | | | | | | 1 | |
| Eye | | | | | | | | | | | 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
 Page 204

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.2% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | 2 |
| Hydronephrosis | | | | | | | | | | | 1 4.0 |
| Mineralization | 2 | 2 | 1 | 1 | 2 | 2 | | 1 | 2 | 1 | 46 1.5 |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 53 1.1 |
| Renal Tubule, Atrophy | | | | | | | | | | | 3 1.3 |
| Renal Tubule, Dilatation | | | | | | | | | | | 2 2.5 |
| Renal Tubule, Pigmentation | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 59 1.5 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | 7 1.0 |
| Ureter | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 60 |
| Edema | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | 1 4.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | 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

Page 205

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 6 7 7 7 4 4 5 7 7 7 7 7 6 4 7 4 7 7 7 7 4 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
2.4% ANIMAL ID | 1 3 3 3 8 5 5 3 2 2 3 3 0 5 3 0 3 3 3 3 5 3 0 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 8 7 8 7 2 1 8 2 5 7 8 7 2 8 4 7 8 8 7 8 2 8 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 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 | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + + + + + + + + + + + + + + + + A + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parasite Metazoan | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Parasite Metazoan | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Parasite Metazoan | X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + + + + + + + + + + + + + + + + A + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 206
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05094 - 02
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 Species/Strain: RATS/F 344

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 7 | 7 | 4 | 4 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 4 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | |
| FISCHER 344 RATS FEMALE
2.4% ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|--|---|--|--|--|---|---|--|--|---|---|---|--|--|--|--|--|--|--|--|---|--|---|---|
| Mixed Cell Focus | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | 1 | | | | | | 1 | | | | X | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | 2 | | | | | | 2 | 1 | | | | 1 | 2 | | | | | | | | | | | | |
| Lobules, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1 |
| Mesentery | | | | | | | | + | + | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | 3 | 3 | | | | | | | | | | | | | | 2 | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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
 BLANK .. Not examined microscopically
 Page 207
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 05094 - 02
 Test Type: CHRONIC
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 BUTYL BENZYL PHTHALATE
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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 6 7 7 7 4 4 5 7 7 7 7 7 6 4 7 4 7 7 7 7 4 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
2.4% ANIMAL ID | 1 3 3 3 8 5 5 3 2 2 3 3 0 5 3 0 3 3 3 3 5 3 0 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 8 7 8 7 2 1 8 2 5 7 8 7 2 8 4 7 8 8 7 8 2 8 3 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | 1 | 1 | | | | | | 1 | 1 | | | | | | | | | 1 | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | X | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | 2 | | | | | | | | | 1 | 2 | | | | | | | | | | | |
| Angiectasis | | 1 | 1 | 3 | | | | | 1 | 2 | 3 | 3 | | 2 | | 2 | | 1 | 1 | 3 | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | 1 | | | | | | | 2 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Metaplasia, Hepatocyte | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | 4 | | | | 3 | | | | | | | | | | | | | | | | 2 | |
| Pars Distalis, Cyst | X | X | | | | | X | | | | | X | X | X | | | X | X | X | | X | X | | | |

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 7 | 7 | 7 | 4 | 4 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 |
| | 1 | 3 | 3 | 3 | 8 | 5 | 5 | 3 | 2 | 2 | 3 | 3 | 0 | 5 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 0 | 8 |
| | 1 | 8 | 7 | 8 | 7 | 2 | 1 | 8 | 2 | 5 | 7 | 8 | 7 | 2 | 8 | 4 | 7 | 8 | 8 | 7 | 8 | 2 | 8 | 3 | 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 |
| 2.4% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 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 |

females (cont...)

Pars Distalis, Hyperplasia
 Pars Distalis, Hyperplasia, Focal

1 3 3 1

Thyroid Gland
 C-cell, Hyperplasia
 Follicular Cell, Hyperplasia

+
 1

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Clitoral Gland
 Ectasia
 Hyperplasia
 Inflammation, Suppurative
 Inflammation, Chronic

+
 3 2 3 2 3
 2 3

Ovary
 Cyst

+
 X X

Uterus
 Hydrometra
 Hyperplasia, Cystic

+
 2 1 2 2 2 2 2

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 05094 - 02
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 6 7 7 7 4 4 5 7 7 7 7 7 6 4 7 4 7 7 7 7 4 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
2.4% ANIMAL ID | 1 3 3 3 8 5 5 3 2 2 3 3 0 5 3 0 3 3 3 3 5 3 0 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 8 7 8 7 2 1 8 2 5 7 8 7 2 8 4 7 8 8 7 8 2 8 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 5 5 5 5 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | 1 2 3 1 2 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Exudate | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Metaplasia, Squamous | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Metaplasia, Squamous | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Calculus Micro Observation Only | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 212

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | |
| | 8 | 3 | 3 | 3 | 1 | 3 | 8 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 8 | 3 | 8 | 3 | 3 |
| | 7 | 7 | 8 | 8 | 7 | 7 | 1 | 8 | 7 | 8 | 2 | 7 | 8 | 8 | 7 | 7 | 3 | 8 | 8 | 3 | 4 | 7 | 4 | 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 | 0 |
| 2.4% ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | 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 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | X | | X | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | X | | | | | | | | | | | | | | | | X | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | X |
| Eosinophilic Focus | | X | | X | | X | X | X | | X | X | | X | | | | | | X | | X | | X | X |
| Granuloma | | | | | | 3 | | | | | | | | | | | | 2 | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | X | | | X | | | | | | | X | | X | | X | | | | | | X | |

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Requested: 06/07/2007
 Time Report Requested: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|
| | 4 7 7 7 7 7 6 7 7 7 5 7 7 7 6 7 7 7 7 6 7 6 7 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
2.4% ANIMAL ID | 8 3 3 3 1 3 8 3 3 3 9 3 3 3 0 3 0 3 3 0 8 3 8 3 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 8 8 7 7 1 8 7 8 2 7 8 8 7 7 3 8 8 3 4 7 4 8 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 |

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | 2 | | | | | | 2 | | | | | | 1 | | | | | | | | | |
| Angiectasis | | 2 | | 2 | | 3 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | | | | 2 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | | | | 1 | 3 | | | | | | | | | | 1 | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Metaplasia, Hepatocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | 4 | 2 | | | | | | | | | 2 | | | | | | 3 | | | | |
| Pars Distalis, Cyst | X | X | | X | | | | | X | | | X | | | X | | | | | | | X | X | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 2) Mild 4) Marked
 Page 216

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 |
| | 8 | 3 | 3 | 3 | 1 | 3 | 8 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 8 | 3 | 8 | 3 | 3 |
| | 7 | 7 | 8 | 8 | 7 | 7 | 1 | 8 | 7 | 8 | 2 | 7 | 8 | 8 | 7 | 7 | 3 | 8 | 8 | 3 | 4 | 7 | 4 | 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 | 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 |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | 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 |

females (cont...)

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | 1 | | | | | | 1 | | | | | | 2 | | | | | | | 2 |
| Hyperplasia | | 1 | 2 | 1 | | | 2 | 1 | 1 | | | | 1 | 1 | 1 | | | | | 2 | 1 | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acanthosis | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | 3 | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cranium, Osteopetrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | 2 | | | | | 2 | | | | |
| Rib, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | | 2 | | 3 | 2 | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 05094 - 02
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 |
| | 8 | 3 | 3 | 3 | 1 | 3 | 8 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 8 | 3 | 8 | 3 | 3 |
| | 7 | 7 | 8 | 8 | 7 | 7 | 1 | 8 | 7 | 8 | 2 | 7 | 8 | 8 | 7 | 7 | 3 | 8 | 8 | 3 | 4 | 7 | 4 | 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 | 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 |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | 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 |

females
(cont...)

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | | 1 | 1 | | 1 | 1 | | | | | | | 1 | | 1 | | | | | | | 1 | | |
| Inflammation, Subacute | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exudate | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | 4 | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Calculus Micro Observation Only | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Esophagus | + | + | + | M | + | + | + | + | + | + | 59 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 59 |
| Edema | | | | | | | | | | | 1 2.0 |
| Parasite Metazoan | | | | | | | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 60 |
| Parasite Metazoan | | | | | X | | | | | | 4 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 60 |
| Parasite Metazoan | | | | | | | | | | | 4 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 60 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 60 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 59 |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 |
| Basophilic Focus | X | X | X | X | X | X | X | | X | X | 48 |
| Clear Cell Focus | | | | | | | | | | | 9 |
| Cyst | | | | | | | | | | | 2 |
| Eosinophilic Focus | | | | | | | | | | | 20 |
| Granuloma | | | | | | | | | | | 2 2.5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 1 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | 12 |

* .. 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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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 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 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | 6 |
| Bile Duct, Hyperplasia | | | | | | | | | | | 9 1.4 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | 10 1.8 |
| Lobules, Necrosis | | | | | | | | | | | 6 1.2 |
| | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | 6 |
| Accessory Spleen | | | | | | | | | | | 1 |
| Fat, Necrosis | | | | | | | | | | | 6 2.5 |
| | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | 1 |
| Hyperplasia | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 60 |
| Atrophy | | | | | | | | | | | 12 1.3 |
| | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 60 |
| | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 60 |
| Ulcer | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 60 |
| | | | | | | | | | | | |
| Tongue | + | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | 1 3.0 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|--------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | * TOTALS | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 60 | |
| Heart | + | + | + | + | + | + | + | + | + | + | 60 | |
| Cardiomyopathy | | | | | | | | | | | | 13 1.3 |
| Mineralization | | | | | | | | | | | | 1 1.0 |
| Thrombosis | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 60 | |
| Accessory Adrenal Cortical Nodule | X | X | | | | X | | X | | | | 10 1.7 |
| Angiectasis | 2 | | | | | 1 | | | | 1 | | 32 2.0 |
| Cyst | X | | | | | | | | | | | 2 |
| Degeneration, Fatty | | | | | | | | | | | | 4 1.5 |
| Hemorrhage | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Focal | | 1 | | | | | | | | | | 3 1.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 60 | |
| Hyperplasia | | | | | | | | | | | | 1 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 60 | |
| Metaplasia, Hepatocyte | | | | | | | | | | | | 1 1.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 58 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 60 | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | 7 2.9 |
| Pars Distalis, Cyst | X | | | | | | | | | | | 20 |

* .. 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 224

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------------|-----------------|-----------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| <hr/> | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 | |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | | | | | | | | | | | | | * TOTALS | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | 1 3.0 | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | 12 1.9 | |
| <hr/> | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| C-cell, Hyperplasia | | | | | | | | | | | | | | 3 1.0 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | 1 2.0 | |
| <hr/> | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | 1 | |
| <hr/> | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | | | | | | | | 3 | |
| Hyperplasia | | | | | | | | | | | | | | 11 2.6 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | 3 1.7 | |
| <hr/> | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | | | | X | |
| <hr/> | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Hydrometra | | | | | | | | | | | | | | 3 3 | |
| Hyperplasia, Cystic | | | | | | | | | | | | | | 3 | |
| | | | | | | | | | | | | | 5 2.4 | | |
| | | | | | | | | | | | | | 12 1.8 | | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| <hr/> | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 |
| Hypercellularity | | | | | | | | | | | 1 2.0 |
| Myelofibrosis | | | | | | | | | | | 6 2.2 |
| <hr/> | | | | | | | | | | | |
| Lymph Node | | | | | | | + | | | | 16 |
| Mediastinal, Hemorrhage | | | | | | | 3 | | | | 2 2.5 |
| Mediastinal, Pigmentation | | | | | | | 3 | | | | 10 3.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | 3 2.7 |
| Renal, Pigmentation | | | | | | | | | | | 4 3.8 |
| <hr/> | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | 2 | | | 2 | 5 2.0 |
| Hemorrhage | | 2 | | | | | | | | | 6 1.7 |
| Pigmentation | | | 2 | | | | 2 | 2 | | 2 | 20 2.0 |
| <hr/> | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 60 |
| Hemorrhage | | | | | | | | | | | 2 2.0 |
| <hr/> | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | 60 |
| Developmental Malformation | | | | | | | | | | | 1 |
| Fibrosis | | | | | | | | | | | 1 2.0 |
| Hematopoietic Cell Proliferation | | | | 2 | | | 2 | | | 2 | 17 1.7 |
| Pigmentation, Hemosiderin | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 39 2.2 |
| <hr/> | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | 58 |
| Hemorrhage | | | | | | | | | | | 1 3.0 |

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 60 | |
| Ectasia | | | | | | | | | | | | 11 1.9 |
| Hyperplasia | | | | 1 | | | | | | | | 18 1.3 |
| Skin | + | + | + | + | + | + | + | + | + | + | 60 | |
| Acanthosis | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | 2 3.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Bone | + | + | + | + | + | + | + | + | + | + | 60 | |
| Cranium, Osteopetrosis | | | | 3 | | | | | | | | 7 2.3 |
| Femur, Osteopetrosis | | | | 2 | | | 2 | | | | | 5 1.8 |
| Rib, Osteopetrosis | | | | | | | | | | | | 1 3.0 |
| Skeletal Muscle | | | | | | | | | | | 1 | |
| Hemorrhage | | | | | | | | | | | | 1 3.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | 60 | |
| Compression | | | | | | | | | | | | 8 2.9 |
| Hydrocephalus | | | | | | | | | | | | 1 3.0 |

* .. 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

Page 227

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| <hr/> | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | 60 |
| Congestion | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | | | | 1 | 1 | | | | | | 21 1.2 |
| Inflammation, Subacute | | | | | | | | | | | 1 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 2 2.0 |
| <hr/> | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | 60 |
| Exudate | | | | | | | | | | | 4 |
| Mucosa, Hyperplasia | | | | | | | | | | | 1 2.0 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | 1 2.0 |
| <hr/> | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | 60 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--------------|
| Eye | | | | | | | | | | | 3 |
| Cataract | | | | | | | | | | | 2 3.0 |
| Hemorrhage | | | | | | | | | | | 1 4.0 |
| Retina, Degeneration | | | | | | | | | | | 2 2.5 |

URINARY SYSTEM

| | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 60 |
| Calculus Micro Observation Only | | | | | | | | | | | 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

Page 228

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 9 | 9 | 9 | 9 | 9 | 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 | |
| | 2.4% | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |
| Cyst | | | | | | | | | | | | 2 |
| Hydronephrosis | | | | | | | | | | | | 1 2.0 |
| Mineralization | 2 | 2 | 1 | | 1 | 2 | | 1 | 2 | 2 | | 43 1.5 |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 55 1.0 |
| Renal Tubule, Atrophy | | | | | | | | | | | | 2 2.5 |
| Renal Tubule, Dilatation | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | 1 1.0 |
| Renal Tubule, Pigmentation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 57 1.7 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | 4 1.0 |
| Ureter | | | | | | | | | | | | 1 |
| Dilatation | | | | | | | | | | | | 1 3.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder | | | | | | | | | | | | 60 |
| Transitional Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | | 10 2.2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 229

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
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 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | X | + | + | + | + | + | + | + | + | X | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | X | X | X | | | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | | | | | | | | X | | | | | | | | | | | | | |
| Eosinophilic Focus | | | X | X | X | | | | X | | X | | X | | | | | X | | | X | | | X |
| Granuloma | | | | | | | | | | | 2 | | 1 | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | X | | | | | | | | X | X | | |
| Inflammation, Subacute | | | | | | | | | | | | | | | | | | | | | | X | | |
| Mixed Cell Focus | | | X | | | | | | | | | | | | | | | | | | | X | | |

* .. 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 230
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 BUTYL BENZYL PHTHALATE
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 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 9 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 8 | 8 | 7 | 8 | 1 | 3 | 8 | 2 | 7 | 2 | 8 | 1 | 8 | 8 | 1 | 7 | 8 | 8 | 8 | 7 | 7 | 8 | 7 | 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 | 0 | |
| CONTROL FEED RTD | 0 | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | 1 | | | | | | | | 2 | 3 | | | | |
| Centrilobular, Necrosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | 3 | 3 | | 2 | | | | | | | | | | 2 | | | | | | | | |
| Lobules, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | 1 | 1 | | | | | | | | 1 | 1 | | | 1 | 1 | | | | 1 | | | 1 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | + | |

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

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 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

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

females
(cont...)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | 2 | 2 | | | | | | | | | 2 | | | | | 1 | |
| Angiectasis | 1 | | | 1 | | | | 1 | 2 | | 1 | | | 1 | | | | | | | | | 1 | | |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | 2 | | | | | | 2 | | | | | | 2 | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + |
| Pars Distalis, Angiectasis | | | | | 3 | 2 | | | | | | | | | 3 | 2 | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | X | | X | | | | X | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 9 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 8 | 8 | 7 | 8 | 1 | 3 | 8 | 2 | 7 | 2 | 8 | 1 | 8 | 8 | 1 | 7 | 8 | 8 | 8 | 7 | 7 | 8 | 7 | 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 | 0 |
| CONTROL FEED RTD | 0 | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | | 1 | 1 | | 1 | 2 | 2 | | | | 2 | 3 | | | | | | | | | | | | | 3 |
| Pars Intermedia, Cyst | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | 2 | | | | | 1 | | | | 1 | | | | | | | | | | |

females
(cont...)

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | 3 | | | | | | | | | 3 | | | | | | | | | | | | | 3 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | 3 | | | | | | | | | | 2 | | | | | | | | | 2 | | | | |
| Inflammation, Chronic | | | | 2 | | | | | | | 3 | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydrometra | | | | | | | | 2 | | | | 2 | | | | | | | | | | | | | |
| Hyperplasia, Cystic | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypercellularity | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 7 7 7 7 7 7 7 7 7 4 7 7 5 7 7 7 7 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
CONTROL FEED RTD | 3 3 3 3 2 3 3 2 3 2 3 9 3 3 5 3 3 3 3 3 3 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 8 7 8 1 3 8 2 7 2 8 1 8 8 1 7 8 8 8 7 7 8 7 8 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | 1 | | | 1 | | 1 | | | | | | | | | | | 1 | 2 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | 2 | | | | | 2 | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cranium, Osteopetrosis | | | | | | | | | | | | 2 | | | | | | | | | | | 3 | | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | |
| Rib, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

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

* .. 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:
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TDMS No. 05094 - 02
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 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 9 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 8 | 8 | 7 | 8 | 1 | 3 | 8 | 2 | 7 | 2 | 8 | 1 | 8 | 8 | 1 | 7 | 8 | 8 | 8 | 7 | 7 | 8 | 7 | 8 |
| 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 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | CONTROL FEED RTD | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

females
(cont...)

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

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|----------------------|
| | 0
7
3
8 | 0
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7 | 0
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8 | 0
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8 | 0
7
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8 | 0
7
3
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 | |
| CONTROL FEED RTD | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | X | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | X |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | X | X | 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 |
| Eosinophilic Focus | | | X | X | | | | X | X | | | | | | X | | | X | X | | | | |
| Granuloma | | | | | | 2 | | | | | | | | | | | 1 | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | 2 | 2 | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | X | | | | | | | | | | | |
| Inflammation, Subacute | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | X | | | | | | | | | X | |

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 + .. Tissue examined microscopically
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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 8 | 7 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 1 | 6 | 7 | 5 | 8 | 8 | 8 | 7 | 8 | 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 |
| CONTROL FEED RTD | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization | | | | | | | | | | | | | | | | | | | | | | | | |
| Cytoplasmic Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Lobules, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

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

females (cont...)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | 1 | | | | | | | 2 | |
| Angiectasis | 2 | | | 1 | 2 | | | | | 1 | | | 2 | | | | | 1 | | 1 | 1 | | | |
| Degeneration, Fatty | | 2 | | | | | | | | | | 2 | 1 | | | | | 1 | | | | | | |
| Hyperplasia, Focal | | 1 | | | | | 1 | | 3 | 2 | | | | 1 | | | | | | | | | 2 | |
| Hypertrophy, Focal | 1 | 3 | | | | | | 1 | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | 1 | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | 2 | | | 3 | 4 | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | X | | | | | | X | | | X | | X | | | | | | | | | X | | | |

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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 8 | 7 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 1 | 6 | 7 | 5 | 8 | 8 | 8 | 7 | 8 | 8 | 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 | 0 |
| CONTROL FEED RTD | 0 | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 3 | | | | | | 2 | 3 | | | 2 | | | | | | | | | | | | 3 | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | | |

females
(cont...)

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydrometra | | | | | 2 | | | | | 2 | | | | | | | | | | | | | | | |
| Hyperplasia, Cystic | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypercellularity | | | | | | | | | | | | | | | 3 | | 3 | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 7 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 1 | 6 | 7 | 5 | 8 | 8 | 8 | 7 | 8 | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTROL FEED RTD | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | + | + | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | | | | | | | 2 | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | 2 | 2 | 2 | | 2 | | 2 | | | | | | | 2 | 2 | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | + | + | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | |

INTEGUMENTARY 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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TDMS No. 05094 - 02
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 Species/Strain: RATS/F 344

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 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|----------------------|
| | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 5 7 2 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
| 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 8 3 2 3 3 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
| 8 7 8 8 7 8 8 8 8 7 8 8 8 8 1 6 7 5 8 8 8 7 8 8 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
CONTROL FEED RTD | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + M + + + + + | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | 2 X 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| Cranium, Osteopetrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Femur, Osteopetrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Rib, Osteopetrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| Compression | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 60 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 60 |
| Parasite Metazoan | | | | | | | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 59 |
| Parasite Metazoan | X | | | | | | | | | | 2 |
| Intestine Large, Rectum | M | + | + | + | + | + | + | I | + | + | 58 |
| Parasite Metazoan | | | X | X | | | | | | | 6 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 59 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 59 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 60 |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 |
| Basophilic Focus | X | X | X | | | | X | X | X | X | 47 |
| Clear Cell Focus | | | | | | | | | | | 2 |
| Eosinophilic Focus | | | | | | | | | X | | 17 |
| Granuloma | | | | | | 2 | | 1 | | | 6 1.5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 2 2.0 |
| Hepatodiaphragmatic Nodule | | X | X | | | | | | X | | 7 |
| Inflammation, Subacute | | | | | | | | | | | 1 2.0 |
| Mixed Cell Focus | | | | | | | | | | | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| | DAY ON TEST | | | | | | | | | | | |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|-----------------|------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | * TOTALS | |
| Bile Duct, Hyperplasia | | | | | | | | | | | 10 | 1.8 |
| Centrilobular, Necrosis | | | | | | | | | | | 2 | 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | 1 | 3.0 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | 4 | 2.5 |
| Lobules, Necrosis | | | | | | | | | | | 1 | 1.0 |
| Mesentery | | | | | | | | | | | 2 | |
| Fat, Necrosis | | | | | | | | | | | 2 | 3.0 |
| Oral Mucosa | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 59 | |
| Atrophy | | | | | | | | | | | | 18 |
| Cyst | | | | | | | | | | | | 1 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | 2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 60 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 60 | |
| Ulcer | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 60 | |
| Tongue | | | | | | | | | | | 1 | |
| Tooth | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 60 |
| Heart | + | + | + | + | + | + | + | + | + | + | 60 |
| Cardiomyopathy | | | | | | | | | | | 14 1.6 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 60 |
| Accessory Adrenal Cortical Nodule | | | | | X | | | X | X | X | 10 1.7 |
| Angiectasis | | | | | | | 1 | | | | 16 1.3 |
| Degeneration, Fatty | | | | | | | | | | | 4 1.5 |
| Hyperplasia, Focal | | | | | | 1 | | | | | 10 1.7 |
| Hypertrophy, Focal | | | | | | | | | | | 3 1.7 |
| Metaplasia, Osseous | | | | | | | | | | | 1 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 60 |
| Hyperplasia | | | | | | | | | | | 3 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 59 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 56 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 57 |
| Pars Distalis, Angiectasis | | | | | | | | | | 2 | 8 2.6 |
| Pars Distalis, Cyst | X | | | | | | X | | | | 10 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05094 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 BUTYL BENZYL PHTHALATE
 CAS Number: 85-68-7

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:43:22
 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| <hr/> | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Pars Distalis, Hyperplasia, Focal | 3 | | | | | | | | | | | 14 2.2 |
| Pars Intermedia, Cyst | | | | | | | | | | | | 2 |
| <hr/> | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | | 60 |
| C-cell, Hyperplasia | | | | | | | | | | | | 4 1.3 |
| <hr/> | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | | 60 |
| Ectasia | | | | | | | | | | | | 4 3.0 |
| Hyperplasia | | | | | | | | | | | | 1 2.0 |
| Inflammation, Suppurative | | | | | | | | | | | | 4 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | 3 2.3 |
| <hr/> | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | | 60 |
| <hr/> | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | | 60 |
| Hydrometra | 1 | | | | | | | | | | | 5 1.8 |
| Hyperplasia, Cystic | | | | | | | | | | | | 4 1.8 |
| <hr/> | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | | 60 |
| Hypercellularity | | | | | | | | | | | | 2 3.0 |

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

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 First Dose M/F: 06/26/89 / 06/26/89
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|----------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---------------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Myelofibrosis | 1 | | | | | | | | | | 3 2.0 |
| Lymph Node | | | | | | | | | | | 13 |
| Mediastinal, Hemorrhage | | | | | | | | | | | 3 2.7 |
| Mediastinal, Pigmentation | | | | | | | | | | | 6 2.8 |
| Renal, Hemorrhage | | | | | | | | | | | 1 2.0 |
| Renal, Pigmentation | | | | | | | | | | | 4 3.0 |
| Lymph Node, Mandibular | + + + + + + + + + + | | | | | | | | | | 60 |
| Ectasia | | | | | | | | | | | 2 2.0 |
| Hemorrhage | | | | | | | | | | | 8 1.5 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 3 2.0 |
| Pigmentation | 2 | 2 | | | | | | | | | 21 2.0 |
| Lymph Node, Mesenteric | + + + + + + + + + + | | | | | | | | | | 60 |
| Hemorrhage | | | | | | | | | | | 2 1.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 2 3.0 |
| Spleen | + + + + + + + + + + | | | | | | | | | | 60 |
| Fibrosis | | | | | | | | | | | 3 3.3 |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | 5 2.4 |
| Hemorrhage | | | | | | | | | | | 1 2.0 |
| Pigmentation, Hemosiderin | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 23 1.7 |
| Thymus | + + + + + + + + + + | | | | | | | | | | 59 |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 A .. Autolysis precludes evaluation
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TDMS No. 05094 - 02
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

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 Lab: SRI

| | DAY ON TEST | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | * TOTALS |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 58 |
| Ectasia | | | | | | | | | | | 5 2.2 |
| Hyperplasia | | | | | | | | | | | 9 1.2 |
| | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst Epithelial Inclusion | | | | | | | | | | | 1 |
| Hyperkeratosis | | | | | | | | | | | 4 2.0 |
| Ulcer | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | |
| | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | 60 |
| Cranium, Osteopetrosis | | | | | | | | | | | 3 2.3 |
| Femur, Osteopetrosis | | | | | | | | | | | 4 2.8 |
| Rib, Osteopetrosis | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | |
| | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | 60 |
| Compression | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | 1 1.0 |
| Hydrocephalus | | | | | | | | | | | 1 3.0 |
| Necrosis | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | |
| | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | 60 |

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 + .. Tissue examined microscopically
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| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| DAY ON TEST | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| <hr/> | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | * TOTALS |
| Edema | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | 1 1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 20 1.2 |
| | | | | | | | | | | | 1 2.0 |
| <hr/> | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | 60 |
| Exudate | | | | | | | | | | | 3 |
| Foreign Body | | | | | | | | | | | 1 2.0 |
| Fungus | | | | | | | | | | | 2 2.5 |
| Mucosa, Hyperplasia | | | | | | | | | | | 3 2.0 |
| <hr/> | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | 60 |
| <hr/> | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | |
| Eye | | | | | | | | | | | 2 |
| Cataract | | | | | | | | | | | 2 3.0 |
| Retina, Degeneration | | | | | | | | | | | 2 4.0 |
| <hr/> | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | 1 |
| Hydronephrosis | | | | | | | | | | | 2 2.0 |
| Mineralization | 2 | 3 | | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 58 2.2 |
| Nephropathy | | | | | | | | | | | 34 1.0 |
| Renal Tubule, Pigmentation | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 57 1.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | 4 1.0 |

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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| CONTROL FEED RTD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |
| | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 60 |

*** END OF REPORT ***

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