

TDMS No. 20116 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

C Number: C20116B
Lock Date: 09/08/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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		DAY ON TEST																				males (cont...)					
		04	06	06	07	06	05	06	06	06	06	07	07	07	06	05	07	07	07	06	06		06	07	06	06	07
FISCHER 344 RATS-NCTR RATS MALE		8	7	4	3	5	5	8	8	5	1	3	3	3	3	3	3	3	7	3	2	3	2	8	8	3	7
	CONTROL WATER	0	0	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	0011	0011	0012	0022	0029	0029	0031	0031	0044	0044	0044	0044	0044	0066	0066	0077	0077	0077	0088	0088	0099	0099	0099	0099	0099	0011

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation				3																							
Ulcer				3																							
Mucosa, Hyperplasia				3																							
Intestine Large, Ascending Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation																											
Hyperplasia																									1		
Inflammation																									2		
Intestine Large, Descending Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Transverse Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mucosa, Hyperplasia																									2		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																										1	
Inflammation																										2	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoid Tissue, Hyperplasia																										2	

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	0 4 8 6	0 6 7 7	0 6 4 1	0 7 3 7	0 6 5 5	0 6 5 4	0 6 8 0	0 6 5 3	0 7 1 9	0 7 3 7	0 7 3 4	0 6 3 1	0 5 7 7	0 7 3 7	0 7 3 7	0 6 7 3	0 6 6 4	0 6 2 7	0 7 3 7	0 6 2 8	0 6 8 3	0 7 3 7	0 7 3 7			
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0 0 1 1 1 1	males (cont...)	
Cyst Multilocular Degeneration, Cystic								2		2									3	2	2					
Eosinophilic Focus												X							X							
Eosinophilic Focus, Multiple Granuloma	2					2																				
Hepatodiaphragmatic Nodule Necrosis, Coagulative														X												
Vacuolization Cytoplasmic	2	1	3	2		2								3								3				
Bile Duct, Hyperplasia																			2		2	2	1			
Centrilobular, Necrosis																										
Left Lateral Lobe, Developmental Malformation				X																						
Mesentery													+							+	+					
Hemorrhage																										
Thrombosis																										
Fat, Necrosis														3						4	3					
Oral Mucosa														+												
Epithelium, Hyperplasia																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Polyarteritis															3											
Acinar Cell, Atrophy	1				3				1					2		2			2			2	3			
Proximal Colon	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Inflammation																						2				
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			

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

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema				4																			
Hyperplasia		2	3	2		1						3			2				3				
Inflammation			4	3		2						3			3			3	3	2			
Ulcer																	3				2		

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema				4																			
Erosion																					2		
Inflammation												3											
Mineralization																							
Mucosa, Hyperplasia																			2				
Mucosa, Necrosis, Focal								1															

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	3	2	1	3	1					3	2		2	2	2		2	2	2		2
Atrium, Thrombus								X	X	X					X				X				

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																			2			2	
Atrophy															3								
Hyperplasia, Focal																	3						
Hypertrophy, Focal						2						2											2

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	0486	0674	0671	0737	0655	0655	0684	0660	0663	0719	0737	0737	0664	0573	0773	0773	0773	0667	0663	0667	0737	0668	0663	0773		
	001112	001122	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	001221	

Vacuolization Cytoplasmic	3	3	2	2		3	2	3				2	3	2			2	2	3		3				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																				2					2
Hyperplasia, Focal								2	4			3	2				3		3	1					
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Cyst	X																								
Pars Distalis, Hyperplasia	1							2									2					4			
Pars Intermedia, Cyst																							X		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia		2										2			2			1						3	
Follicular Cell, Hyperplasia						2																			

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exfoliated Germ Cell		3	2	2	3		3	2	3	2			2		2	2	3		2	2		3	2		
Hypospermia			2		3		3		3		4				2	4	4		4	4	4	3	2	3	4
Inflammation																									2
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	0486	0674	0671	0733	0755	0564	0668	0665	0663	0711	0733	0737	0664	0571	0773	0777	0666	0663	0662	0733	0668	0663	0737	0777		
Inflammation Duct, Ectasia	2	3	3		2		2		2	3	2	4		1	4	3		3	3		3	2	4	2	3	
Prostate Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Seminal Vesicle Atrophy Decreased Secretory Fluid																										
Testes Granuloma Sperm Inflammation Polyarteritis Interstitial Cell, Hyperplasia Seminiferous Tubule, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

HEMATOPOIETIC SYSTEM

Bone Marrow Atrophy Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node Lumbar, Degeneration, Cystic Mediastinal, Degeneration, Cystic Mediastinal, Hemorrhage Medulla, Pancreatic, Sinus, Dilatation Medulla, Sinus, Dilatation Pancreatic, Hyperplasia, Lymphoid		+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Pancreatic, Infiltration Cellular, Plasma Cell	2																									
Renal, Degeneration, Cystic	1																									
Lymph Node, Mandibular	+																									
Atrophy, Lymphocyte	+																									
Degeneration, Cystic	+																									
Hematopoietic Cell Proliferation	+																									
Hyperplasia, Lymphoid	+																									
Infiltration Cellular, Plasma Cell	+																									
Necrosis, Lymphoid	+																									
Lymph Node, Mesenteric	+																									
Degeneration, Cystic	+																									
Hemorrhage	+																									
Infiltration Cellular, Plasma Cell	+																									
Necrosis, Lymphoid	+																									
Spleen	+																									
Accessory Spleen	+																									
Congestion	+																									
Hematopoietic Cell Proliferation	+																									
Hyperplasia, Lymphoid	+																									
Hyperplasia, Focal	+																									
Infarct	+																									
Pigmentation	+																									
Thrombus	+																									
Lymphoid Follicle, Necrosis	+																									
Thymus	+																									
Atrophy	+																									

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

Cyst X

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Galactoceles		X	X										X										X	X
Lactation		3	2		3		2	2	2	1	1				2				2		2			
Alveolus, Hyperplasia		3													2					2		1		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																								
Inflammation																							3	
Epidermis, Necrosis																							3	

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Osteopetrosis																							3	
Skeletal Muscle					+																			

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypothalamus, Compression			2							4					2								2	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

Peripheral Nerve +
 Spinal Cord +

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage							2																	
Alveolar Epithelium, Hyperplasia																				2				
Alveolus, Infiltration Cellular, Histiocyte			1				1																	
Alveolus, Inflammation																								3
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fungus																								X
Inflammation							1							2										2
Goblet Cell, Hyperplasia														3										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cataract																								X
Retina, Degeneration							2						2											3
Sclera, Metaplasia, Osseous							2						3											
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy							2																	
Infiltration Cellular, Lymphocyte	2	1												1										1 2

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 Lab: NCTR

		DAY ON TEST																									males (cont...)	
FISCHER 344 RATS-NCTR RATS MALE	CONTROL WATER	0	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	6	6	7	6	5	6	6	6	7	7	7	6	5	7	7	7	6	6	6	7	6	6	7	7		
		8	7	4	3	5	5	8	8	5	1	3	3	3	3	3	3	3	7	3	2	3	2	8	8	3	7	
6	7	1	7	5	5	4	0	3	9	7	7	4	1	7	7	7	3	4	7	7	8	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		0		
	0	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	2	2	3	3	4	4	4	4	4	6	6	7	7	7	7	9	9	9	9	9	2			
	1	1	2	2	9	9	1	1	1	1	2	2	3	3	2	2	8	8	9	9	8	8	9	9	7			
	1	2	1	2	1	2	1	2	1	2	2	1	2	2	1	2	1	2	1	2	1	2	1	2	1			

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nephropathy	2	4	4	4	3	3	3	3	2	2	2	3	4	4	3	4	4	3	3	3	2	2	4	3	
Cortex, Cyst													X												
Urethra																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation																									

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE CONTROL WATER	DAY ON TEST																				* TOTALS	
	07	07	07	06	06	07	06	05	07	06	04	05	06	06	07	07	06	07	06	06		05
ANIMAL ID	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	27	28	28	41	41	44	44	55	55	66	67	77	78	84	84	95	95	99	22	22	33	32

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Inflammation																								1 3.0
Ulcer																								1 3.0
Mucosa, Hyperplasia																								1 3.0
Intestine Large, Ascending Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	47	
Intestine Large, Cecum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	46	
Dilatation												X												1
Hyperplasia																								1 1.0
Inflammation																								1 2.0
Intestine Large, Descending Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	47	
Intestine Large, Rectum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine Large, Transverse Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	47	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Mucosa, Hyperplasia																								1 2.0
Intestine Small, Ileum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	45	
Hyperplasia																								1 1.0
Inflammation																								1 2.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	A	+	+	+	+	45	
Lymphoid Tissue, Hyperplasia																								1 2.0

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 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE CONTROL WATER	DAY ON TEST																				* TOTALS	
	0 7 3 7	0 7 3 7	0 7 3 7	0 6 1 2	0 6 4 0	0 7 3 4	0 6 6 0	0 5 5 0	0 7 3 7	0 6 6 4	0 4 5 8	0 6 2 0	0 6 5 0	0 7 3 7	0 7 3 8	0 6 3 2	0 7 3 3	0 6 1 3	0 6 8 1	0 5 4 3		0 7 3 2
ANIMAL ID	0 1 2 7 2	0 1 2 8 1	0 1 2 1 2	0 1 4 1 2	0 1 4 1 4	0 1 4 1 2	0 1 4 4 5	0 1 4 4 5	0 1 4 4 5	0 1 4 4 6	0 1 4 4 6	0 1 4 4 7	0 1 4 4 8	0 1 4 7 8	0 1 4 7 4	0 1 4 7 4	0 1 4 7 5	0 1 4 7 5	0 1 4 7 9	0 1 4 7 9	0 1 4 8 0	0 1 4 0 2
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Cyst Multilocular			X																			1
Degeneration, Cystic		2			3												2				2	9 2.2
Eosinophilic Focus									X							X						4
Eosinophilic Focus, Multiple														X								1
Granuloma																						2 2.0
Hepatodiaphragmatic Nodule																						1
Necrosis, Coagulative							3															1 3.0
Vacuolization Cytoplasmic			2		3		3		2								3					12 2.4
Bile Duct, Hyperplasia	1	1	2	4				2	3		2				2	2					3	15 2.1
Centrilobular, Necrosis				2																		1 2.0
Left Lateral Lobe, Developmental Malformation																						1
Mesentery					+	+		+		+			+					+	+			10
Hemorrhage								4														1 4.0
Thrombosis											X											1
Fat, Necrosis				3	3												3	3				7 3.1
Oral Mucosa																+						2
Epithelium, Hyperplasia															4							1 4.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Polyarteritis																					4	3 3.7
Acinar Cell, Atrophy				1								1						2		1		12 1.8
Proximal Colon	+	+	+	+	+	+	+	A	+	+	M	+	+	+	+	+	+	A	+	+	+	44
Inflammation																						1 2.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE CONTROL WATER	DAY ON TEST																				* TOTALS	
	0 7 3 7	0 7 3 7	0 7 3 7	0 6 1 2	0 6 4 0	0 7 3 4	0 6 6 0	0 5 5 0	0 7 3 7	0 6 6 0	0 4 7 6	0 5 6 8	0 6 2 0	0 7 3 7	0 7 3 7	0 6 3 8	0 7 3 2	0 6 7 3	0 6 1 3	0 5 8 3		0 7 4 2
ANIMAL ID	0 1 2 7 2	0 1 2 8 1	0 1 2 8 2	0 1 4 1 1	0 1 4 1 2	0 1 4 4 1	0 1 4 4 2	0 1 4 5 1	0 1 4 5 2	0 1 4 6 1	0 1 4 6 2	0 1 4 7 1	0 1 4 7 2	0 1 4 8 1	0 1 7 8 4	0 1 7 8 4	0 1 7 5 1	0 1 7 5 2	0 1 7 9 1	0 1 7 9 2	0 1 8 0 1	0 1 8 0 2
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Edema																						1 4.0
Hyperplasia					2		2										2					10 2.2
Inflammation					4		2										3					11 2.9
Ulcer																	3					3 2.7
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Edema																						1 4.0
Erosion																						1 2.0
Inflammation																						1 3.0
Mineralization																				2		1 2.0
Mucosa, Hyperplasia																						1 2.0
Mucosa, Necrosis, Focal																				2		2 1.5
CARDIOVASCULAR SYSTEM																						
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Cardiomyopathy	1	3	3	1	2	2			2	2					2	3	2			2	1	34 2.0
Atrium, Thrombus			X																			6
ENDOCRINE SYSTEM																						
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Angiectasis																						2 2.0
Atrophy																						1 3.0
Hyperplasia, Focal																	2					2 2.5
Hypertrophy, Focal																						3 2.0

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
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 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

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

Vacuolization Cytoplasmic			2	2	3		3			2			2	3	2		2			3			24	2.5
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48	
Angiectasis																						2	3	2.0
Hyperplasia, Focal			4		1									2									10	2.5
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+		47	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48	
Pars Distalis, Cyst																							1	
Pars Distalis, Hyperplasia																					2		5	2.2
Pars Intermedia, Cyst																							1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48	
C-cell, Hyperplasia							1								2		2						8	1.9
Follicular Cell, Hyperplasia																							1	2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48		
Exfoliated Germ Cell	2		2	2	3	2	4	3		1	2	2	3	3	3	2	3		2	2	2	3	4	37	2.4
Hypospermia	4	4		2		2		4						4	3	3	3	4	4	2				28	3.2
Inflammation																								1	2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48		

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TDMS No. 20116 - 03
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 Aloe vera whole leaf extract (native)
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE CONTROL WATER	DAY ON TEST																				* TOTALS			
	0 7 3 7	0 7 3 7	0 7 3 7	0 6 1 2	0 6 4 0	0 7 3 4	0 6 6 0	0 5 5 0	0 7 3 7	0 6 6 4	0 4 5 8	0 6 2 0	0 6 5 0	0 7 3 7	0 7 3 8	0 6 3 2	0 7 3 3	0 6 7 1	0 6 8 3	0 5 4 3		0 7 3 2		
ANIMAL ID	0 1 2 7 2	0 1 2 8 1	0 1 2 8 1	0 1 4 1 2	0 1 4 1 4	0 1 4 4 2	0 1 4 4 5	0 1 4 4 1	0 1 4 5 2	0 1 4 5 6	0 1 4 6 1	0 1 4 7 2	0 1 4 7 8	0 1 4 7 8	0 1 7 4 1	0 1 7 4 2	0 1 7 5 1	0 1 7 5 9	0 1 7 9 2	0 1 7 9 0	0 1 8 0 0			
Inflammation Duct, Ectasia		2	1	2		3	2	2	4	2	2	3		2	2	3	2	2		2	4	3	3	38 2.6 6 2.7
Prostate Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 34 2.2	
Seminal Vesicle Atrophy Decreased Secretory Fluid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 4 2.0 7 2.7	
Testes Granuloma Sperm Inflammation Polyarteritis Interstitial Cell, Hyperplasia Seminiferous Tubule, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 1 2.0 1 2.0 1 2.0 3 2.3 17 2.8	

HEMATOPOIETIC SYSTEM

Bone Marrow Atrophy Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 8 2.1 7 2.6
Lymph Node Lumbar, Degeneration, Cystic Mediastinal, Degeneration, Cystic Mediastinal, Hemorrhage Medulla, Pancreatic, Sinus, Dilatation Medulla, Sinus, Dilatation Pancreatic, Hyperplasia, Lymphoid				+	+					+	+			+	+			+	+		+	24 4 3.0 1 2.0 1 4.0 1 2.0 1 2.0 1 2.0

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
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 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE CONTROL WATER	DAY ON TEST																				* TOTALS			
	0 7 3 7	0 7 3 7	0 7 3 7	0 6 1 2	0 6 4 0	0 7 3 4	0 6 6 0	0 5 5 0	0 7 3 7	0 6 6 0	0 4 7 6	0 5 6 8	0 6 2 0	0 6 5 0	0 7 3 7	0 7 3 8	0 6 3 2	0 6 7 3	0 6 1 3	0 5 4 3		0 7 3 2		
ANIMAL ID	0 1 2 7 2	0 1 2 8 1	0 1 2 8 2	0 1 4 1 2	0 1 4 1 2	0 1 4 4 1	0 1 4 4 2	0 1 4 5 1	0 1 4 5 2	0 1 4 6 1	0 1 4 6 2	0 1 4 7 1	0 1 4 7 2	0 1 4 8 1	0 1 7 8 2	0 1 7 4 1	0 1 7 4 2	0 1 7 5 1	0 1 7 5 2	0 1 7 9 1	0 1 7 0 2	0 1 8 0 0		
Pancreatic, Infiltration Cellular, Plasma Cell																						1	2.0	
Renal, Degeneration, Cystic																							2	1.5
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Atrophy, Lymphocyte																							1	1.0
Degeneration, Cystic	2	3		2				2				2			2	2						11	2.5	
Hematopoietic Cell Proliferation																							1	1.0
Hyperplasia, Lymphoid																							1	2.0
Infiltration Cellular, Plasma Cell																2			2	2			9	2.2
Necrosis, Lymphoid																					2		1	2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47		
Degeneration, Cystic	2			3		2										2	3					8	2.5	
Hemorrhage																							2	3.0
Infiltration Cellular, Plasma Cell																							1	2.0
Necrosis, Lymphoid																					2		1	2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Accessory Spleen																							1	
Congestion																							1	3.0
Hematopoietic Cell Proliferation				2																			3	2.3
Hyperplasia, Lymphoid											2												1	2.0
Hyperplasia, Focal																							1	3.0
Infarct			X								X							X				X	6	
Pigmentation					3		2																3	2.7
Thrombus																							1	
Lymphoid Follicle, Necrosis																					4		1	4.0
Thymus	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46		
Atrophy	2	3	2		3	2		2	2	2				3	2	3	2		2	2	3	3	38	2.4

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE CONTROL WATER	DAY ON TEST																				* TOTALS	
	077	077	077	066	066	077	066	055	077	066	044	055	066	066	077	077	066	077	066	066		055
ANIMAL ID	0127	0118	0118	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111	0111

Cyst 1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	M	+	+	M	+	+	M	+	+	+	+	+	+	+	+	44
Galactoceles			X				X							X						X			9
Lactation	1	1		2	2				2	1				4		2		3	2	1		1	23 1.9
Alveolus, Hyperplasia		1				2			2					4			2	3	1			1	12 2.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Cyst Epithelial Inclusion																					X		1
Inflammation																							1 3.0
Epidermis, Necrosis																							1 3.0

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Osteopetrosis																							1 3.0
Skeletal Muscle																							2

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hypothalamus, Compression	2	2	1	2	1											3			2				11 2.1
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

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

Peripheral Nerve	1
Spinal Cord	1

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Hemorrhage																							1	2.0
Alveolar Epithelium, Hyperplasia																							2	2.0
Alveolus, Infiltration Cellular, Histiocyte																							3	1.0
Alveolus, Inflammation																							2	2.5
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Fungus																							1	
Inflammation																							4	1.8
Goblet Cell, Hyperplasia																							1	3.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	47	
Cataract																	X					2	
Retina, Degeneration																						5	2.8
Sclera, Metaplasia, Osseous																						2	2.5
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Atrophy																						1	2.0
Infiltration Cellular, Lymphocyte																						7	1.3

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

		DAY ON TEST																							
FISCHER 344 RATS-NCTR RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		7	7	7	6	6	7	6	5	7	6	4	5	6	6	7	7	6	7	6	6	6	5	7	
		3	3	3	1	4	3	6	5	3	7	9	6	2	5	3	3	3	3	7	1	8	4	3	
CONTROL WATER		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	7	7	7	7	7	7	8	8	
	2	1	2	1	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	0	0	
																						* TOTALS			

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Nephropathy	3	3	4	2	4	2	4	1	4	3	2	2	2	4	4	4	2	4	4	2	3	2	4		48	3.0
Cortex, Cyst										X															2	
Urethra					+																				1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Dilatation								X																	1	

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TDMS No. 20116 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

		DAY ON TEST																				males (cont...)						
FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 0.5		0596	0737	0737	0650	0725	0672	0743	0778	0733	0627	0666	0666	0774	0467	0673	0774	0466	0677	0773	0773		0733	0733	0733	0733	0733	0733
ANIMAL ID		00061	00062	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	6	7	7	5	5	6	8	8	4	4	5	5	9	9	1	1	2	2	3	3	4	4	1	1	1	1

ALIMENTARY SYSTEM

Esophagus Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ulcer														4													
Intestine Large, Ascending Colon Mucosa, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		2	2		1		2		2	4		1		3		2	2		1	1	2		2	1		1	
Intestine Large, Cecum Lymphoid Tissue, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+		
Mucosa, Hyperplasia									2		1		2						1	1				1			
Intestine Large, Colon Mucosa, Hyperplasia																											
Intestine Large, Descending Colon Lymphoid Tissue, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mucosa, Hyperplasia					1		1	2		4		1		2				1	2			1	1				
Intestine Large, Rectum Mucosa, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			1																								
Intestine Large, Transverse Colon Lymphoid Tissue, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mucosa, Hyperplasia		2	2		1		2		2	3		1		2			2	2		1	1	2		2	1		1
Intestine Small					+																						
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+		

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 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 0.5	DAY ON TEST																								ANIMAL ID	males (cont...)		
	0596	0737	0737	0650	0725	0672	0743	0778	0833	0733	0627	0666	0666	0774	0470	0633	0700	0779	0469	0699	0733	0733	0733	0733			0733	0733
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001		
Mucosa, Hyperplasia	3	2				3						2																
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+		
Lymphoid Tissue, Hyperplasia																								2				
Mucosa, Hyperplasia																												
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	M	+	+	
Lymphoid Tissue, Hyperplasia											2																	
Mucosa, Hyperplasia																												
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Basophilic Focus, Multiple																										X		
Degeneration, Cystic											2																	
Granuloma				1					1				1													2		
Hematopoietic Cell Proliferation																								1				
Hepatodiaphragmatic Nodule									X														X					
Infiltration Cellular, Lymphocyte																												
Necrosis, Coagulative																	2											
Vacuolization Cytoplasmic	4					4	2					2								3		2			3			
Artery, Media, Hypertrophy			2																									
Bile Duct, Hyperplasia			1				2				2	2						2						2		1		
Centrilobular, Degeneration					4																							
Centrilobular, Necrosis																	3											
Left Lateral Lobe, Developmental Malformation										X	X																	
Periductular, Fibrosis																												
Mesentery							+									+							+					
Polyarteritis																												
Fat, Necrosis																	3								3			

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 0.5	DAY ON TEST																								ANIMAL ID	males (cont...)																						
	0596	0737	0737	0650	0725	0672	0744	0773	0838	0733	0772	0666	0666	0774	0467	0673	0774	0466	0673	0774	0773	0733	0733	0777			0777																					
Oral Mucosa																																																
Pancreas Acinar Cell, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	2	2	2	4	2																	
Proximal Colon Inflammation Ulcer Mucosa, Hyperplasia	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	1	1					
Salivary Glands Acinar Cell, Atrophy Sublingual Gland, Infiltration Cellular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																							
Stomach, Forestomach Edema Hyperplasia Inflammation Perforation Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	4	4	3	3	3	2	3	3	3	2	3	4	2	3	3	3	3	3	3	3	3		
Stomach, Glandular Diverticulum Edema Inflammation Ulcer Mucosa, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	3	2	3	2	3	2	3	3	2	3	3	3	3	3	3	3	3	3	3	3		

CARDIOVASCULAR SYSTEM

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 0.5	DAY ON TEST																									males (cont...)
	0596	0737	0737	0650	0725	0672	0748	0773	0773	0666	0666	0767	0474	0667	0774	0466	0777	0466	0679	0799	0333	0733	0777	0777		
	0006	0007	0007	0007	0007	0007	0007	0008	0003	0003	0002	0006	0005	0002	0004	0006	0007	0007	0009	0009	0003	0003	0003	0003	0007	
ANIMAL ID	00061	00072	00071	00072	00071	00072	00071	00072	00081	00082	00041	00042	00051	00052	00061	00062	00071	00072	00071	00072	00081	00082	00041	00042	00081	00082
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	2	2	2			2	2	2	2	2		2	2	1	3	2	2	2	2	2		2	2	
Atrium, Thrombus					X									X			X			X	X					
Atrium, Myocardium, Degeneration																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule																										
Angiectasis																										
Atrophy																									3	
Hyperplasia, Focal																										
Necrosis, Coagulative																										
Vacuolization Cytoplasmic	3					3						2	3		3		2					3		4		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																										1
Hyperplasia, Focal																							2			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																										
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									3	
Hemorrhage																2										
Pars Distalis, Cyst															X								X			

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 0.5	DAY ON TEST																								ANIMAL ID	males (cont...)	
	0596	0737	0737	0650	0725	0672	0743	0774	0777	0662	0666	0767	0444	0667	0777	0444	0669	0779	0444	0667	0777	0777	0777	0777			0777
	00006	00006	00007	00007	00005	00006	00007	00004	00007	00007	00006	00006	00006	00007	00004	00006	00007	00007	00004	00006	00007	00007	00007	00007	00007	00001	

Pars Intermedia, Cyst

X

Thyroid Gland

+ +

Ultimobranchial Cyst

C-cell, Hyperplasia

Follicular Cell, Hyperplasia

2 2 2 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

+ +

Atrophy

3

Exfoliated Germ Cell

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

Hypospermia

4 4 4 4 4 4 3 3 4 2 4 4 4 4 4 4 4 4 4 4

Penis

+

Preputial Gland

+ +

Atrophy

Inflammation

Duct, Ectasia

Duct, Hyperplasia

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

Prostate

+ +

Atrophy

3

Inflammation

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

Seminal Vesicle

+ +

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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE ALOEWOLLEAF 0.5 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|--|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0596 | 0737 | 0737 | 0650 | 0725 | 0672 | 0743 | 0783 | 0737 | 0777 | 0666 | 0666 | 0774 | 0466 | 0777 | 0746 | 0666 | 0777 | 0466 | 0666 | 0777 | 0777 | 0777 | 0777 | | |
| Atrophy | | | 2 | | | | 3 | 2 | | | | | | | | | | 2 | 3 | 2 | 2 | 2 | | 2 | | |
| Decreased Secretory Fluid | 4 | | | | | | | | | | | | 2 | 2 | 3 | | | | 3 | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Interstitial Cell, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminiferous Tubule, Atrophy | | 2 | 3 | | 3 | | | | | | | | | | | | | 2 | 3 | | 4 | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | 3 | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 2 | 2 | | | | | | | | 4 | 3 | | | | 2 | 3 | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | + | + | | | | | | | | + | + | + | | | | | | | | | | | |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Medulla, Renal, Sinus, Dilatation | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | 2 | | | | | | | | | | | | | 4 | 1 | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |

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

TDMS No. 20116 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Aloe vera whole leaf extract (native)
CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
Time Report Requested: 14:39:01
First Dose M/F: 04/17/05 / 04/17/05
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0596 | 0737 | 0737 | 0650 | 0725 | 0672 | 0748 | 0774 | 0777 | 0683 | 0733 | 0777 | 0666 | 0666 | 0747 | 0467 | 0466 | 0773 | 0777 | 0469 | 0699 | 0733 | 0733 | | | 0737 | 0777 |
| | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 001 | | |
| | 000 | 000 | 000 | 002 | 002 | 002 | 002 | 003 | 003 | 005 | 005 | 005 | 005 | 006 | 006 | 007 | 007 | 007 | 007 | 007 | 008 | 008 | 008 | 008 | 008 | 010 | |
| | 61 | 62 | 71 | 72 | 51 | 52 | 61 | 62 | 81 | 82 | 41 | 42 | 51 | 52 | 91 | 92 | 11 | 12 | 11 | 22 | 23 | 33 | 44 | 42 | 11 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Medulla, Sinus, Dilatation | | 2 | | 2 | | | 2 | | | | | | | 2 | | 2 | | | 2 | 3 | | | | | | | | | |
| Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage Medulla, Sinus, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 3 | | | 2 | | 2 | | | | 4 | 2 | | | 4 | | | | 2 | | 2 | | | | | | | 2 | |
| Spleen Atrophy Congestion Fibrosis Hematopoietic Cell Proliferation Hyperplasia, Lymphoid Infarct Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 3 | | | | | | | | | | | | | | | | | 3 | | | 2 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | X | | X | | X | | | X | | | | | | | | | | | | | | X | |
| | 4 | | | | | 3 | | | | | 2 | | | 2 | | | | | | 2 | | | | | | | | | |
| Thymus Atrophy Cyst Ectopic Thyroid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 3 | 2 | 2 | 2 | 3 | 3 | 2 | | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Galactoceles Lactation Alveolus, Hyperplasia | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | X | X | X | | X | | | X | | X | | | | | | | | | | | | | | X |
| | | 3 | | | | | 3 | | | | 2 | | | | | | 2 | | 3 | | 3 | 2 | | | | | | 2 | |
| | 3 | 1 | | | 2 | | 3 | | | | | | | | | | | | | | 3 | 2 | | | | | | 2 | |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS-NCTR RATS MALE | | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 4 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ALOEWHOLLEAF 0.5 | | 9 | 3 | 3 | 5 | 2 | 1 | 3 | 8 | 3 | 3 | 2 | 6 | 5 | 2 | 7 | 0 | 3 | 0 | 9 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | | 6 | 7 | 7 | 0 | 5 | 2 | 7 | 0 | 7 | 7 | 7 | 6 | 9 | 4 | 4 | 6 | 7 | 2 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 |
| | | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 6 | 8 | 8 | 4 | 4 | 5 | 5 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 1 | 1 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |
| | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Skin +
 Cyst Epithelial Inclusion
 Inflammation
 Inflammation, Granulomatous
 Subcutaneous Tissue, Inflammation, Focal

MUSCULOSKELETAL SYSTEM

Bone +
 Bone, Femur +
 Skeletal Muscle +

NERVOUS SYSTEM

Brain, Brain Stem +
 Hemorrhage 3
 Hypothalamus, Compression 3 3 1 3 2
 Brain, Cerebellum +
 Brain, Cerebrum +
 Peripheral Nerve +
 Spinal Cord +

RESPIRATORY SYSTEM

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|---|--|
| | 0596 | 0737 | 0737 | 0650 | 0725 | 0672 | 0743 | 0778 | 0733 | 0733 | 0622 | 0666 | 0665 | 0722 | 0474 | 0664 | 0773 | 0774 | 0469 | 0699 | 0733 | 0733 | 0733 | 0733 | | | 0733 | | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0001 | | | | |
| | 0006 | 0067 | 0071 | 0002 | 0057 | 0056 | 0068 | 0088 | 0088 | 0044 | 0055 | 0055 | 0055 | 0099 | 0099 | 0011 | 0011 | 0022 | 0022 | 0033 | 0033 | 0044 | 0044 | 0011 | 0011 | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Mucosa, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | | A | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 3 | 4 | 2 | 4 | | 2 | 4 | 4 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | | | |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FISCHER 344 RATS-NCTR RATS MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | 0596 | 0737 | 0737 | 0650 | 0725 | 0672 | 0480 | 0787 | 0737 | 0666 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 | 0666 | 0744 |
| | ANIMAL ID | 00061 | 00072 | 00071 | 00002 | 00021 | 00022 | 00022 | 00033 | 00033 | 00055 | 00055 | 00055 | 00066 | 00066 | 00077 | 00077 | 00077 | 00077 | 00088 | 00088 | 00088 | 00044 | 00044 | 00011 | 00011 | 00022 | 00022 | 00033 | 00033 | 00044 |

males
(cont...)

Renal Tubule, Necrosis

3

Urinary Bladder Dilatation

+
 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
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 20116 - 03
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 Aloe vera whole leaf extract (native)
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 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
7 | 0
6
1
7 | 0
6
2
4 | 0
6
3
2 | 0
6
9
2 | 0
6
6
9 | 0
6
1
3 | 0
5
4
2 | 0
7
3
7 | 0
7
3
7 | 0
5
6
3 | 0
6
5
8 | 0
6
9
9 | 0
7
3
7 | 0
7
3
7 | 0
5
5
8 | 0
5
9
2 | 0
5
9
2 | 0
5
4
4 | 0
6
9
0 | | 0
5
7
1 |
| ANIMAL ID | 0
1
0
1
2 | 0
1
0
1
2 | 0
1
0
1
2 | 0
1
0
1
2 | 0
1
3
1
2 | 0
1
3
3
2 | 0
1
3
3
1 | 0
1
3
5
2 | 0
1
3
6
1 | 0
1
3
6
2 | 0
1
5
6
1 | 0
1
5
6
2 | 0
1
5
6
4 | 0
1
5
6
1 | 0
1
5
6
2 | 0
1
6
6
1 | 0
1
6
8
1 | 0
1
6
8
2 | 0
1
8
8
1 | 0
1
8
8
2 | 0
1
8
7
1 | 0
1
8
7
2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|-----|-----|
| Esophagus
Inflammation
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | 4.0 | 1 | 4.0 |
| Intestine Large, Ascending Colon
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 47 | 30 | 1.9 | | | |
| Intestine Large, Cecum
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | 45 | 2 | 2.5 | 13 | 1.5 | |
| Intestine Large, Colon
Mucosa, Hyperplasia | | | | | | | | | | | | | | | | + | | | | | | | 1 | 1 | 3.0 | | | |
| Intestine Large, Descending Colon
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | 46 | 1 | 2.0 | 17 | 1.5 | |
| Intestine Large, Rectum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 47 | 1 | 1.0 | | | |
| Intestine Large, Transverse Colon
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 47 | 1 | 2.0 | 30 | 1.8 | |
| Intestine Small | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 46 | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|--------|
| | 07 | 06 | 06 | 06 | 06 | 06 | 06 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 05 | 05 | 05 | | 06 | 05 |
| ANIMAL ID | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | |
| | 00 | 00 | 00 | 01 | 01 | 03 | 03 | 03 | 03 | 03 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 08 | 08 | 08 | 08 | |
| | 01 | 02 | 02 | 09 | 09 | 03 | 03 | 05 | 05 | 06 | 06 | 03 | 03 | 04 | 06 | 06 | 01 | 01 | 05 | 05 | 07 | 07 | |
| | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | |
| Mucosa, Hyperplasia | 2 | | | | | | 3 | | | | | 2 | | | | 2 | 3 | | | 1 | | | 10 2.3 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | 1 | | | | | | 2 | | | | | | | | | | | 2 | | | | | 3 1.7 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | 44 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Degeneration, Cystic | | | | | 1 | | 2 | | | | | | | 1 | 2 | | | 2 | | | | | 6 1.7 |
| Granuloma | | | | | | | | | | | | 1 | | | | | | | | | | | 5 1.2 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Necrosis, Coagulative | | | | | | | | | | | | | 2 | | | | | | | | | | 2 2.0 |
| Vacuolization Cytoplasmic | 3 | | | | | | 2 | | 2 | | 2 | | 2 | 2 | | | | 2 | | | | | 14 2.5 |
| Artery, Media, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Hyperplasia | | | | 2 | 1 | | | | | 2 | 2 | | | 1 | | 2 | 2 | | | | 2 | 2 | 16 1.8 |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Periductular, Fibrosis | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 |
| Mesentery | | | | | | | | + | | | | + | | + | | | | + | + | + | | + | 10 |
| Polyarteritis | | | | | | | | | | | | | | | | | | 4 | | | | | 1 4.0 |
| Fat, Necrosis | | | | | | | 3 | | | | | | | 2 | | | | 3 | | | 2 | | 6 2.7 |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|
| | 0
7 | 0
6 | 0
6 | 0
6 | 0
6 | 0
6 | 0
6 | 0
5 | 0
7 | 0
7 | 0
5 | 0
6 | 0
6 | 0
7 | 0
7 | 0
7 | 0
5 | 0
5 | 0
5 | 0
5 | | 0
6 | 0
5 | 0
5 |
| ANIMAL ID | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | 0
1 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Acinar Cell, Atrophy | | 2 | | | | | 2 | 2 | | | | | 2 | | 1 | | 2 | | | | | 2 | 2 | 17 1.9 |
| Proximal Colon | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Inflammation | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 2.3 |
| Ulcer | | | | | | | | | | | | | | | | | | | 3 | | | | | 2 2.5 |
| Mucosa, Hyperplasia | 1 | | 2 | | 3 | | 2 | | 2 | 1 | | | 2 | 2 | | 3 | | 3 | | 2 | 2 | 1 | 2 | 29 2.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Acinar Cell, Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Sublingual Gland, Infiltration Cellular | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 47 |
| Edema | 4 | | | | | | | | | | | | 4 | | | | | | | | | | | 4 3.8 |
| Hyperplasia | | 3 | | | 2 | | 3 | | | | | | 3 | | | | 3 | 4 | 3 | | | | 1 | 13 2.8 |
| Inflammation | | | | | 2 | | 4 | | | | | | 4 | | | | 2 | 4 | | 3 | | | | 9 3.2 |
| Perforation | | | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | | 4 | | | | | | 4 | | 3 | | | 3 3.7 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 47 |
| Diverticulum | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Edema | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Inflammation | | | | | | | | | | | 2 | | | | | | | | | 3 | | | | 3 2.7 |
| Ulcer | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | 2 | | 2 | | | 2 | | | | | | | | | | 2 | | 2 | 2 | 12 2.3 |

CARDIOVASCULAR SYSTEM

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--------|
| | 0737 | 0667 | 0664 | 0662 | 0662 | 0669 | 0663 | 0572 | 0777 | 0777 | 0553 | 0668 | 0669 | 0777 | 0777 | 0777 | 0558 | 0552 | 0552 | 0554 | | 0660 | 0551 |
| ANIMAL ID | 0100 | 0100 | 0100 | 0101 | 0101 | 0103 | 0103 | 0103 | 0103 | 0103 | 0105 | 0105 | 0105 | 0105 | 0105 | 0106 | 0106 | 0106 | 0108 | 0108 | 0108 | 0108 | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Cardiomyopathy | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | | 2 | | 2 | 2 | 2 | 2 | | | 2 | 2 | 2 | 39 2.0 |
| Atrium, Thrombus | | | X | | | X | | | | | | X | | X | | | | | | | | | 9 |
| Atrium, Myocardium, Degeneration | | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Accessory Adrenal Cortical Nodule | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Angiectasis | | | | | | | | | | | | 2 | 2 | | | | | | | | | | 2 2.0 |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Necrosis, Coagulative | | | | | 3 | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vacuolization Cytoplasmic | 2 | 3 | 2 | 3 | 2 | | 3 | 2 | | | 2 | 2 | 2 | | | | 2 | | 1 | 4 | 2 | | 22 2.5 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 47 |
| Angiectasis | | | | | | | | | | | | | 2 | | | | | | | | | | 2 1.5 |
| Hyperplasia, Focal | | | 1 | 2 | | | | | | | | | | | | | | | | 2 | | | 4 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | 1 2.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Angiectasis | | | | | | | | | | | | | | | | | | 2 | | | | | 2 2.5 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | 2 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 07 | 06 | 06 | 06 | 06 | 06 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 05 | 05 | 05 | 06 | | 05 |
| ANIMAL ID | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | 00 | 00 | 00 | 01 | 01 | 03 | 03 | 03 | 03 | 03 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 08 | 08 | 08 | 08 | 08 |
| | 01 | 02 | 02 | 09 | 09 | 03 | 03 | 05 | 05 | 06 | 06 | 03 | 03 | 04 | 06 | 06 | 01 | 01 | 05 | 05 | 07 | 07 |
| | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 02 |

Pars Intermedia, Cyst

1

Thyroid Gland

+ + + + + + + + + + + + + + + + A + + + + + +

47

Ultimobranchial Cyst

X

1

C-cell, Hyperplasia

2 2 2

7 1.9

Follicular Cell, Hyperplasia

1 1.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

+ +

48

Atrophy

1 3.0

Exfoliated Germ Cell

3 1 3 3 2 2 1 3 3 3 3 4 2 2 1 4 2

27 2.2

Hypospermia

4 3 3 2 4 4 4 4 3 4 3 4

25 3.6

Penis

1

Preputial Gland

+ +

48

Atrophy

1 2.0

Inflammation

3 3 3 3 2 2 3 1 3 3 3 4 2 2 1 2 1 4 2

41 2.5

Duct, Ectasia

2 3 4 2 3 2

13 2.5

Duct, Hyperplasia

2

1 2.0

Prostate

+ +

48

Atrophy

1 3.0

Inflammation

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

32 2.0

Seminal Vesicle

+ +

48

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

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

I .. Insufficient tissue

BLANK .. Not examined microscopically

2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 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 |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | |
| Decreased Secretory Fluid | | | | | | 2 | | 4 | | | | | | | | | | | 3 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | |
| Seminiferous Tubule, Atrophy | 3 | | | | | | | | 3 | 3 | | 1 | | | | | | | 3 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | 3 | | | |
| Hyperplasia | | | | | | 2 | | 3 | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | + | | + | | | | | + | | + | + | + | | | | | + | + | |
| Lumbar, Degeneration, Cystic | | | | | | | | | | 3 | | | 3 | | | | | | | 2 | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 3 | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | 2 | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | |
| Medulla, Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | 2 | | | | | | | | | |
| Renal, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | 2 | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 3 | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy, Lymphocyte | | | 2 | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | 2 | 2 | | | 2 | | | | | | 2 | 2 | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|--|
| | 0
7
3
7 | 0
6
1
7 | 0
6
2
4 | 0
6
3
2 | 0
6
9
2 | 0
6
6
9 | 0
6
1
3 | 0
5
4
2 | 0
7
3
7 | 0
7
3
7 | 0
5
6
3 | 0
6
5
8 | 0
6
9
9 | 0
7
3
7 | 0
7
3
7 | 0
5
5
8 | 0
5
9
2 | 0
5
9
2 | 0
5
4
4 | 0
6
9
0 | | 0
5
7
1 | 0
5
9
8 | |
| ANIMAL ID | 0
1
0
1
2 | 0
1
0
1
2 | 0
1
0
1
2 | 0
1
0
1
2 | 0
1
3
1
2 | 0
1
3
3
2 | 0
1
3
3
1 | 0
1
3
5
2 | 0
1
3
5
2 | 0
1
3
6
2 | 0
1
3
6
2 | 0
1
5
6
3 | 0
1
5
6
3 | 0
1
5
4
1 | 0
1
5
4
1 | 0
1
5
6
2 | 0
1
6
6
1 | 0
1
6
8
1 | 0
1
8
8
5 | 0
1
8
8
5 | 0
1
8
7
1 | 0
1
8
8
7 | | |
| Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Medulla, Sinus, Dilatation | | | | | 2 | | | 2 | | | 2 | | | | 2 | 3 | | 2 | | | 2 | 2 | 2
14
1 | 2.0
2.1
2.0 |
| Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage Medulla, Sinus, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
11
2
4 | 2.8
2.0
2.5 |
| Spleen Atrophy Congestion Fibrosis Hematopoietic Cell Proliferation Hyperplasia, Lymphoid Infarct Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
2
3
1
1
1
9 | 2.5
2.7
3.0
2.0
2.0
2.3 |
| Thymus Atrophy Cyst Ectopic Thyroid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
42
2
1 | 2.4
2.0
2.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Galactocele Lactation Alveolus, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 46
11
19
14 | 2.3
2.3
2.3 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0737 | 0664 | 0662 | 0662 | 0669 | 0669 | 0663 | 0662 | 0667 | 0667 | 0663 | 0668 | 0669 | 0667 | 0667 | 0668 | 0662 | 0662 | 0664 | 0660 | | 0665 | 0665 |
| ANIMAL ID | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 2 | 9 | 9 | 3 | 3 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 4 | 6 | 6 | 1 | 1 | 5 | 5 | 7 | 7 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Cyst Epithelial Inclusion | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Granulomatous | | | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Subcutaneous Tissue, Inflammation, Focal | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 3.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hypothalamus, Compression | | | | | | | | | | | | | | | | | | | | | | | | 10 3.0 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--------|
| | 0737 | 0617 | 0624 | 0632 | 0669 | 0661 | 0613 | 0542 | 0737 | 0777 | 0533 | 0658 | 0669 | 0737 | 0777 | 0737 | 0558 | 0559 | 0599 | 0544 | | 0690 | 0579 |
| ANIMAL ID | ALOEWOLLEAF 0.5 | | | | | | | | | | | | | | | | | | | | | | |
| | 0100 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Infiltration Cellular, Lymphocyte | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | 1 | | | | | | | | | | | 1 | | | | | | 3 1.3 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Inflammation | | | | | | | | | | | 2 | | | | | | 2 | | | | | | 3 2.0 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mucosa, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 |
| Retina, Degeneration | 1 | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Sclera, Metaplasia, Osseous | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Infiltration Cellular, Lymphocyte | | 2 | | | | | | | | | | | | 1 | 1 | | | 1 | | | 1 | | 11 1.1 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | 2 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Nephropathy | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 3 | 4 | 4 | 2 | 3 | 4 | 4 | 3 | 4 | 3 | 1 | 4 | 3 | 3 | 3 | 47 3.2 |

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

TDMS No. 20116 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| FISCHER 344 RATS-NCTR RATS MALE | | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 | 5 | 5 |
| | | 3 | 1 | 2 | 3 | 9 | 6 | 1 | 4 | 3 | 3 | 6 | 5 | 9 | 3 | 3 | 3 | 5 | 9 | 9 | 4 | 9 | 7 | 9 | 7 | 9 | 8 |
| | | 7 | 7 | 4 | 2 | 2 | 9 | 3 | 2 | 7 | 7 | 3 | 8 | 9 | 7 | 7 | 7 | 8 | 2 | 2 | 4 | 0 | 1 | 8 | 1 | 8 | 8 |
| ALOEWHOLLEAF 0.5 | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 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 |
| | | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 1 | 2 | 2 | 9 | 9 | 3 | 3 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 4 | 6 | 6 | 1 | 1 | 5 | 5 | 7 | 7 | 7 | 7 | 7 |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Renal Tubule, Necrosis

1 3.0

Urinary Bladder

48

Dilatation

5

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 067 | 066 | 067 | 066 | 066 | 067 | 066 | 067 | 067 | 066 | 066 | 065 | 066 | 066 | 067 | 065 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00115511 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 |
| Esophagus Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 |
| Intestine Large, Ascending Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 |
| Intestine Large, Ascending Colon Mucosa, Hyperplasia | 2 | 2 | 2 | | 4 | 2 | 3 | 4 | | | | 2 | 4 | | 3 | | 4 | | 1 | 4 | 1 | 2 | 1 | 4 | 2 | |
| Intestine Large, Cecum Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Intestine Large, Cecum Lymphoid Tissue, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Large, Cecum Mucosa, Hyperplasia | 2 | 2 | 1 | 2 | | 2 | 1 | | | 1 | 2 | | 2 | 1 | | | 1 | 1 | | | | | | | | |
| Intestine Large, Colon Inflammation | | + | | | | | | | + | | | | | | | | | | | | | | | | | 4 |
| Intestine Large, Colon Ulcer | | + | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Intestine Large, Colon Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Descending Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | 2 |
| Intestine Large, Descending Colon Mucosa, Hyperplasia | 2 | 1 | | 1 | | | 1 | 1 | 4 | | 1 | | | 3 | 1 | 2 | 2 | 1 | | | | 2 | 2 | 2 | 2 | |
| Intestine Large, Rectum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Transverse Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Transverse Colon Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 067 | 066 | 067 | 066 | 066 | 067 | 066 | 067 | 067 | 066 | 066 | 065 | 066 | 066 | 067 | 067 | | |
| Mucosa, Hyperplasia | 2 | 1 | 1 | 2 | 1 | 2 | 2 | | 4 | 2 | 2 | 2 | 3 | | 2 | 2 | 2 | 3 | 2 | | 1 | 2 | 1 | 2 | 2 | | |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Ileum
Inflammation
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | |
| Intestine Small, Jejunum
Lymphatic, Dilatation
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | 2 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | 1 | | | | | | | | | 1 | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | 1 | | 1 | | | | | | | | | | | | 1 | | | | | | |
| Vacuolization Cytoplasmic | | | 3 | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Bile Duct, Hyperplasia | | | | | 1 | 2 | 1 | | | 2 | 1 | | | | | | | | | | | | | | | | |
| Caudate Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Centrilobular, Degeneration | | | | | | | | | | | | 2 | | | | | | | | | | 3 | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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TDMS No. 20116 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 067 | 066 | 067 | 066 | 066 | 066 | 067 | 066 | 067 | 067 | 066 | 066 | 065 | 066 | 066 | 067 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | 5 | | |
| | 2 | 4 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 4 | 6 | 0 | 3 | 7 | 7 | 2 | 7 | 1 | 7 | 7 | 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 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 0 | | |
| | 5 | 5 | 6 | 6 | 8 | 8 | 3 | 3 | 4 | 9 | 9 | 0 | 2 | 2 | 5 | 5 | 6 | 6 | 6 | 3 | 3 | 4 | 4 | 6 | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | | M | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mucosa, Hyperplasia | 2 | 3 | 3 | 3 | 4 | | 2 | 2 | 2 | 2 | 4 | 2 | 2 | | 2 | | | 2 | 3 | 2 | 1 | 2 | 3 | 2 | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Hyperplasia | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mucosa, Hyperplasia | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mucosa, Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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TDMS No. 20116 - 03
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 Aloe vera whole leaf extract (native)
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Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 067 | 066 | 067 | 066 | 066 | 066 | 067 | 066 | 067 | 067 | 066 | 066 | 065 | 066 | 066 | 067 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 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 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | | |
| | 5 | 5 | 6 | 6 | 8 | 8 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 2 | 2 | 5 | 5 | 6 | 6 | 3 | 3 | 3 | 4 | 4 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 2 | | 2 | 2 | | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | | 2 | 2 | 3 | 2 | 2 | |
| Dilatation | | | | | | | | | | | | | | | X | | | | | | | | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrium, Thrombus | | | | X | | | | | X | | | | | X | X | | | | | | | | X | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | X | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | 2 | | | | 1 | | | 1 | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 2 | | | | | 2 | | | 2 | 2 | | 2 | 2 | | | | | | 2 | 2 | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| FISCHER 344 RATS-NCTR RATS MALE | ALOEWHOLLEAF 1.0 | 6 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | 5 | |
| | | 6 | 3 | 3 | 3 | 3 | 2 | 8 | 3 | 3 | 2 | 3 | 7 | 8 | 8 | 0 | 9 | 3 | 3 | 6 | 6 | 7 | 2 | 9 | 3 | 1 | |
| | | 2 | 4 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 4 | 6 | 0 | 7 | 7 | 2 | 5 | 7 | 1 | 7 | 7 | 9 | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 0 | |
| | | 5 | 5 | 6 | 6 | 8 | 8 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 2 | 2 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 4 | 6 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Angiectasis
 Pars Distalis, Cyst
 Pars Distalis, Hyperplasia

4 1
 X
 2

Thyroid Gland
 C-cell, Hyperplasia
 Follicular Cell, Hyperplasia

+
 3 2 1 2
 2

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Epididymis
 Atrophy
 Exfoliated Germ Cell
 Granuloma Sperm
 Hypospermia

+
 1 2 2 2 3 3 3 1 2 1 2 2 2 2 3 3 2 3 2 2 3 4
 2 3
 4 4 4 4 2 3 2 3 4 4 4 2 4 3 3

Preputial Gland
 Inflammation
 Duct, Ectasia
 Duct, Hyperplasia

+
 1 3 2 2 1 3 3 3 2 3 2 2 2 3 3 3 1 2 4 2 2
 2 3 2 3 2 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2

Prostate
 Inflammation

+
 2 3 2 2 2 2 2 2 2 1 2 2 1 2 2 3 3 2 2 3 2 2

Seminal Vesicle
 Atrophy

+
 2 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
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 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE ALOEWOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----------|-----------------|
| | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 066 | 067 | 066 | 066 | 067 | 066 | 067 | 067 | 066 | 066 | 065 | 066 | 066 | 067 | 067 | 065 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00115511 | | |

Decreased Secretory Fluid

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Testes

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Polyarteritis

3

Interstitial Cell, Hyperplasia

Seminiferous Tubule, Atrophy

4

4

2

2

3

4

4

3

HEMATOPOIETIC SYSTEM

Bone Marrow

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Atrophy

3

Hyperplasia

3

2

2

3

Myeloid Cell, Hyperplasia

3

Lymph Node

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Lumbar, Degeneration, Cystic

3

Mediastinal, Degeneration, Cystic

2

Mediastinal, Hemorrhage

2

Mediastinal, Medulla, Sinus, Dilatation

Medulla, Pancreatic, Sinus, Dilatation

2

Pancreatic, Degeneration, Cystic

Pancreatic, Hyperplasia, Lymphoid

2

3

Pancreatic, Pigmentation

2

Renal, Degeneration, Cystic

3

Renal, Hemorrhage

2

Renal, Pigmentation

2

Lymph Node, Mandibular

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Degeneration, Cystic

2

2

2

3

Hyperplasia, Lymphoid

2

2

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 20116 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|
| FISCHER 344 RATS-NCTR RATS MALE | | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 066 | 067 | 066 | 066 | 066 | 067 | 066 | 067 | 066 | 065 | 066 | | 066 | 067 | 065 |
| ALOEWHOLLEAF 1.0 | | 001 | 001 | 001 | 001 | 001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | 000 | 000 | 001 |
| ANIMAL ID | | 51 | 52 | 61 | 62 | 81 | 82 | 31 | 32 | 41 | 42 | 51 | 52 | 61 | 62 | 71 | 72 | 81 | 82 | 91 | 92 | 31 | 32 | 41 | |
| Infiltration Cellular, Plasma Cell | | | | | | 2 | | | | 2 | | | 2 | 3 | | | | | | | | 2 | | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Cystic | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 3 | 4 | 4 | | 4 | 4 | 4 | | 3 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Lymphoid | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Spleen | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | X | | | | | | | | | | X | | | | X | | | | | |
| Pigmentation | | 2 | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Thrombus | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | |
| Atrophy | | 3 | 3 | 3 | 3 | 2 | 2 | | | 2 | 4 | 2 | 3 | 3 | | 3 | 2 | | 3 | | 3 | 2 | 3 | 2 | 2 |
| Epithelial Cell, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Galactocele | | | | | | X | X | | | | | X | | | | | | X | X | | | | | X | |
| Lactation | | 2 | 1 | | | 2 | | 2 | | 1 | 2 | 1 | 2 | 2 | | | 2 | 3 | | 3 | | | | 4 | 2 |
| Alveolus, Hyperplasia | | | | | | 3 | 2 | | 2 | | | | | | | | 2 | 3 | 3 | | | | | | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE ALOEWOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------------|
| | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 066 | 067 | 066 | 066 | 067 | 066 | 067 | 067 | 066 | 066 | 065 | 066 | 066 | 067 | 065 | | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Skin Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fat, Subcutaneous Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tail, Hyperkeratosis, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Cranium, Periosteum, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hypothalamus, Compression | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Brain, Cerebellum Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Brain, Cerebrum Hydrocephalus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

RESPIRATORY SYSTEM

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

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 062 | 063 | 067 | 067 | 067 | 065 | 066 | 067 | 067 | 067 | 066 | 067 | 066 | 066 | 066 | 067 | 066 | 067 | 066 | 066 | 065 | 066 | 066 | 067 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 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 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | | |
| | 5 | 5 | 6 | 6 | 8 | 8 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 2 | 2 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 4 | | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granuloma | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | 4 | | | | | | | | | | | 2 | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | | | | | | | | | 1 | | 1 | | 1 | 2 | | | | | | |
| Alveolus, Infiltration Cellular, Lymphocyte | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Alveolus, Inflammation | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Mediastinum, Inflammation | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | X | | | | | | | | | |
| Fungus | | | | | | | | | | | | | | | | | | | | | X | | |
| Inflammation | 2 | | | | | | | | | | | | 2 | | | | | | | | 3 | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | 1 | | | | | 1 | | | | | | 1 | | | 2 | 2 | | 1 |
| Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | + | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWOLLEAF 1.0 | | 0662 | 0664 | 0667 | 0667 | 0667 | 0665 | 0666 | 0667 | 0667 | 0667 | 0666 | 0667 | 0666 | 0666 | 0666 | 0667 | 0666 | 0667 | 0667 | 0666 | 0666 | 0665 | 0666 | 0666 | 0667 | | 0665 |
| ANIMAL ID | | 0011 | 0011 | 0011 | 0011 | 0011 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | | 0010 |
| Hydronephrosis | | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 4 | 3 | 3 | 1 | 3 | 2 | 2 | 4 | 1 | 4 | 1 | 3 | 3 | 3 | 3 | 2 | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder Dilatation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | |
| FISCHER 344 RATS-NCTR RATS MALE | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | |
| ALOEWHOLLEAF 1.0 | 3 | 8 | 5 | 3 | 3 | 3 | 1 | 3 | 0 | 1 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 6 | 3 | 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 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 6 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 9 | 9 | 0 | 0 | 9 | 9 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Intestine Large, Ascending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | 3 | 3 | 3 | 3 | 4 | 3 | 2 | 2 | 2 | 1 | 4 | 4 | 4 | | 2 | 4 | 4 | 3 | 4 | | 2 | 2 | | 38 2.8 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Dilatation | | | | | X | | | X | | | | X | | | | | X | | | | | | | 8 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | | | 3 2.0 |
| Mucosa, Hyperplasia | | 2 | | 1 | 1 | 4 | 2 | | 2 | | | 2 | 4 | 2 | 1 | 3 | | 3 | | | | | | 24 1.9 |
| Intestine Large, Colon | | | | | | | | | | | + | | | | | | | | | | | | 3 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mucosa, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Descending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Inflammation | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 1.5 |
| Mucosa, Hyperplasia | 2 | 2 | 1 | 1 | | 2 | 2 | 1 | | 1 | 2 | 1 | 1 | | 1 | 2 | | 1 | 2 | | | | | 31 1.6 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Mucosa, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Transverse Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | | 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:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|---|---------------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0777 | 0661 | 0579 | 0770 | 0777 | 0777 | 0334 | 0777 | 0777 | 0777 | 0667 | 0777 | 0666 | | 0777 | 0667 | 0777 | 0667 | 0777 | 0667 | 0777 |
| ANIMAL ID | 01062 | 0113 | 0113 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | |
| Mucosa, Hyperplasia | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 4 | 3 | 2 | 2 | 3 | 4 | 2 | 4 | 2 | 2 | 3 | | | | | | | 42 2.2 |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
3 2.7 | |
| Intestine Small, Ileum
Inflammation
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 2.0
3 2.3 | |
| Intestine Small, Jejunum
Lymphatic, Dilatation
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
1 3.0
1 2.0
2 2.0 | |
| Liver
Angiectasis
Basophilic Focus
Basophilic Focus, Multiple
Degeneration, Cystic
Eosinophilic Focus, Multiple
Granuloma
Hematopoietic Cell Proliferation
Hemorrhage
Hepatodiaphragmatic Nodule
Infiltration Cellular, Lymphocyte
Vacuolization Cytoplasmic
Bile Duct, Hyperplasia
Caudate Lobe, Developmental Malformation
Centrilobular, Degeneration
Centrilobular, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 2.0
2
1
2 1.0
1
6 1.7
1 2.0
1 2.0
2
4 1.3
6 2.8
9 1.4
1
2 2.5
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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0777 | 0665 | 0571 | 0730 | 0733 | 0733 | 0341 | 0737 | 0737 | 0675 | 0737 | 0660 | 0732 | | 0672 |
| ANIMAL ID | 01062 | 01132 | 01134 | 01144 | 01151 | 01152 | 01153 | 01157 | 01163 | 01167 | 01171 | 01173 | 01174 | 01176 | 01181 | 01182 | 01183 | 01184 | 01188 | 01188 | 01192 | 01193 |
| Left Lateral Lobe, Developmental Malformation | X | | | | | | | | | | | | | | | | | | | | 2 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | 4 | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | 2 | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | 48 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Acinar Cell, Atrophy | 1 | 1 | 2 | 2 | | 2 | | 2 | | | 2 | | 1 | | | | 1 | | 1 | | | 19 1.6 |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | 46 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Mucosa, Hyperplasia | 3 | 4 | | 2 | 1 | 2 | | 2 | 4 | | 4 | | 3 | | 1 | 4 | 1 | 4 | 1 | 2 | 4 | 36 2.5 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | 48 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | 48 | |
| Edema | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 9 2.2 | |
| Inflammation | 4 | 2 | | | | 4 | | 4 | | 3 | | | | | | | | | | | | 5 3.4 |
| Ulcer | 4 | | | | | 4 | | | | 4 | | | | | | | | | | | | 3 4.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | 48 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Mucosa, Hyperplasia | 3 | | | | | 2 | | 3 | 3 | | | | | | | | | | | | | 7 2.4 |
| Mucosa, Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0631 | 0630 | 0519 | 0770 | 0777 | 0777 | 0334 | 0733 | 0777 | 0665 | 0777 | 0666 | 0773 | | 0664 |
| ANIMAL ID | 01062 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Cardiomyopathy | | | 2 | 2 | 2 | 2 | 2 | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 38 | 2.0 |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Atrium, Dilatation | | | | | | | | | | | | | 4 | | | | | | | | | | 1 | 4.0 |
| Atrium, Thrombus | X | | | | X | X | | X | | | | | | | | | | | X | | | | 10 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Angiectasis | | | | | 2 | | | | | | | | | 1 | | | | | | | | | 2 | 1.5 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hyperplasia, Focal | | | | | | | | | 2 | | | | | | | | | | | | | | 2 | 2.0 |
| Hypertrophy, Focal | | 2 | | | | | 2 | | 2 | | | 2 | | | | 2 | | | | | | | 8 | 1.8 |
| Vacuolization Cytoplasmic | 3 | | 3 | | | | | | 3 | | 4 | | | | | | 2 | | | | | | 15 | 2.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | 2 | | | | 2 | 2.0 |
| Hyperplasia, Focal | | | | | | | | | 4 | | | | | | 2 | | | | | | | | 3 | 2.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 46 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 47 | |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|--------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0777 | 0661 | 0551 | 0770 | 0777 | 0777 | 0334 | 0773 | 0773 | 0773 | 0660 | 0773 | 0772 | | 0660 | 0773 | 0662 | 0773 | 0664 | 0669 |
| ANIMAL ID | 01062 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | 01131 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Hyperplasia | 4 | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | | | 4 2.5 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| C-cell, Hyperplasia | | | | 2 | | | | | | 2 | | | | | | | | | | | | | | | | | 6 2.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 |
| Exfoliated Germ Cell | 3 | | | | 2 | 2 | 2 | 2 | 4 | 2 | 3 | 3 | 2 | | | | 2 | | 1 | 2 | 2 | | | 3 | | | 36 2.3 |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hypospermia | 4 | | 4 | 4 | 2 | 2 | 4 | 2 | | | 3 | | 2 | | 4 | 4 | | | | | | | 4 | | | | 27 3.3 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Inflammation | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 4 | 1 | 2 | | 4 | 2 | 4 | | | 2 | | 2 | | 3 | 1 | | 39 2.4 |
| Duct, Ectasia | 3 | | 2 | | | | | | | | | | 2 | | | | | | 2 | | | 2 | | | | | 13 2.3 |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Inflammation | 2 | | 1 | | 3 | | 2 | | 3 | 2 | 2 | 2 | | 2 | 2 | | 3 | | 2 | 3 | 4 | 2 | | | | | 36 2.2 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | 3 | | | 2 | | | 2 | | | | | | | | 2 | 2 | | | | | | | | | | | 8 2.4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|--|---|--|---|--|---|--|---------------|--|
| | 0
7
3
0 | 0
6
8
8 | 0
6
5
9 | 0
7
3
7 | 0
7
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7 | 0
7
3
7 | 0
7
1
8 | 0
7
3
7 | 0
6
0
1 | 0
5
1
9 | 0
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3 | 0
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3 | 0
3
4
1 | 0
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7 | 0
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7 | 0
6
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5 | 0
7
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7 | 0
6
3
2 | 0
7
6
0 | | 0
7
3
2 | 0
6
6
0 | 0
7
3
2 | 0
6
3
4 | 0
6
4
9 | | | | | | | | | | |
| ANIMAL ID | 0
1
0
6
2 | 0
1
1
3
1 | 0
1
1
3
2 | 0
1
1
4
1 | 0
1
1
4
2 | 0
1
1
5
1 | 0
1
1
5
2 | 0
1
1
7
1 | 0
1
3
7
2 | 0
1
3
7
2 | 0
1
3
9
2 | 0
1
3
9
2 | 0
1
4
9
2 | 0
1
4
9
2 | 0
1
6
9
1 | 0
1
6
9
2 | 0
1
7
1
2 | 0
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7
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2 | 0
1
8
1
2 | 0
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2 | 0
1
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2
2 | 0
1
8
2
2 | 0
1
8
3
1 | 0
1
8
3
2 | 0
1
8
3
3 | 0
1
8
3
2 | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | 2 | | | | | | | | | | 3 | | | 2 | | 3 | | | | | | | | | | 10 2.3 | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | |
| Degeneration, Cystic | 3 | | 3 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 42 3.8 | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 | | | | | | | | | | | |
| Necrosis, Lymphoid | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | | | | | | | | | | | | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | 2 | | | | 2 | | | | | | | | 2 2.0 | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | X | | | | X | | | | | | | | 5 | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | 3 | | | | | | | | | | | | | | | | 3 2.3 | | | | | | | | | | | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | | | | | | | |
| Red Pulp, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | | | | | | | | | | | |
| Thymus | + | | | | | | | | | | | | | | | | | | | | 44 | | | | | | | | | | | | | | | |
| Atrophy | 3 | | 2 | | 3 | | 2 | | 3 | | 2 | | M | | + | | 2 | | 2 | | 2 | | 2 | | 3 | | 2 | | 3 | | 2 | | 2 | | 39 2.4 | |
| Epithelial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | |
| Galactocele | | | X | | | | X | | | | X | | | | X | | | | X | | | | | | | | 11 | | | | | | | | | |
| Lactation | 2 | | 1 | | | | 2 | | | | 2 | | 2 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 24 2.2 | | | | | | | | | |
| Alveolus, Hyperplasia | | | | | 1 | | 1 | | 2 | | | | 3 | | | | | | 3 | | | | | | | | 12 2.4 | | | | | | | | | |

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | |
|------------------------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|--------|
| | 0730 | 0688 | 0659 | 0737 | 0737 | 0737 | 0738 | 0737 | 0651 | 0579 | 0730 | 0733 | 0733 | 0341 | 0737 | 0737 | 0675 | 0737 | 0660 | 0733 | | | 0662 | 0734 |
| ALOEWHOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Fat, Subcutaneous Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Tail, Hyperkeratosis, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cranium, Periosteum, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hypothalamus, Compression | | | 2 | | | | | | 2 | 3 | | | | 2 | | | 3 | 2 | 1 | 4 | 2 | | | 13 2.6 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hydrocephalus | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mineralization, Focal | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0665 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | |
| ANIMAL ID | 01062 | 01133 | 01133 | 01144 | 01144 | 01155 | 01155 | 01177 | 01177 | 01199 | 01199 | 01200 | 01200 | 01211 | 01211 | 01222 | 01222 | 01233 | 01233 | 01244 | 01244 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | 1 | 2 | | | | | | | 2 | | | | | 1 | | 10 1.3 |
| Alveolus, Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolus, Inflammation | | | | | | | | | | | | | | | | 2 | | | 2 | | | | 3 2.0 |
| Mediastinum, Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 47 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fungus | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | | | | | | 1 | | | | | | | | | | | | | | | 4 2.0 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | 8 1.3 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|--------|-------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0777 | 0665 | 0571 | 0730 | 0733 | 0733 | 0341 | 0737 | 0737 | 0737 | 0675 | 0737 | 0672 | | 0760 | 0732 | 0662 | 0734 | 0664 | 0769 | |
| ANIMAL ID | 01062 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | |
| Hydronephrosis | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nephropathy | 2 | 2 | 3 | 1 | 2 | 3 | 4 | 4 | 4 | 2 | 4 | 3 | 3 | 2 | 4 | 4 | 3 | 2 | 3 | 3 | 2 | 4 | 3 | | | | 48 2.7 | |
| Urinary Bladder Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

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

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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE ALOEWOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|------------------------------|-----------------|
| | 0642 | 0646 | 0697 | 0737 | 0777 | 0777 | 0777 | 0777 | 0666 | 0666 | 0777 | 0666 | 0666 | 0666 | 0777 | 0777 | 0448 | 0666 | 0666 | 0555 | 0333 | 0116 | 0667 | 0776 | 0662 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000000000000000000000000000 | males (cont...) |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Ascending Colon | M + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 4 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 3 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Tissue, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 4 4 4 3 4 4 3 4 4 2 2 2 3 3 3 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dilatation | X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 2 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 2 2 4 3 2 2 3 2 2 4 1 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 3 4 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Descending Colon | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Tissue, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 1 2 2 1 1 2 1 1 1 3 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Transverse Colon | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|------------------------------------|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS
MALE | ALOEWHOLLEAF 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| | | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 6 | 6 | 5 | | 3 | 1 | 6 | 7 |
| | | 4 | 4 | 9 | 3 | 3 | 3 | 0 | 3 | 8 | 9 | 3 | 2 | 6 | 8 | 3 | 3 | 8 | 3 | 0 | 7 | 3 | 1 | 6 | 3 | 2 |
| | | 2 | 6 | 7 | 7 | 7 | 7 | 0 | 7 | 0 | 1 | 7 | 2 | 5 | 9 | 7 | 7 | 2 | 1 | 7 | 4 | 8 | 7 | 0 | 7 | 7 |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 1 |
| | | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 9 | 9 | 0 | 0 | 2 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 2 | | | | | | | | | | | 2 | 4 | | 2 | 2 | | 2 | 3 | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | 2 | | 1 | 2 | 2 | 2 | 2 | | 3 | 2 | 2 | | | 3 | | 2 | 2 | 1 | | 2 | | | 2 | |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | | X | X | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | 2 | | | | | | | 2 | | | | | | | |
| Thrombus | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 1 | 2 | | | | 2 | | 2 | 2 | | | | | 3 | | 3 | | | | | | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | 2 | | | | | 2 | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
| | 0642 | 0666 | 0697 | 0733 | 0777 | 0777 | 0777 | 0777 | 0777 | 0666 | 0666 | 0777 | 0666 | 0666 | 0666 | 0777 | 0777 | 0444 | 0666 | 0666 | | | 0555 | 0333 | 0111 | 0666 | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 1 |
| | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 9 | 9 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

Hyperplasia, Focal

1

Pituitary Gland

 Angiectasis

 Hemorrhage

 Pars Distalis, Cyst

 Pars Distalis, Hyperplasia

Thyroid Gland

 C-cell, Hyperplasia

 Follicular Cell, Hyperplasia

GENERAL BODY SYSTEM

Tissue NOS

+

GENITAL SYSTEM

Epididymis

 Exfoliated Germ Cell

 Hypospermia

 Inflammation

Preputial Gland

 Atrophy

 Inflammation

 Duct, Ectasia

Prostate

 Inflammation

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0642 | 0646 | 0667 | 0673 | 0677 | 0677 | 0677 | 0677 | 0677 | 0666 | 0666 | 0677 | 0666 | 0666 | 0666 | 0677 | 0677 | 0644 | 0666 | 0666 | 0655 | 0633 | 0611 | 0666 | 0677 | | |
| Seminal Vesicle Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Decreased Secretory Fluid | | | | 4 | | | | | | 2 | | 4 | 3 | | | | | 3 | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Interstitial Cell, Hyperplasia | | | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | |
| Seminiferous Tubule, Atrophy | | | 1 | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | 2 | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Hyperplasia | | | | | | | | | | 3 | | | | | | | | 3 | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Lymph Node | | | | + | | | | | | + | + | + | | | | + | + | | | | | | | + | + | | + |
| Lumbar, Degeneration, Cystic | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Pancreatic, Degeneration, Cystic | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2 | |
| Renal, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | 2 | | 4 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | 2 | | | 2 | 2 | 2 | | | | | | | 2 | | | | | |
| Medulla, Sinus, Dilatation | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | 2 | | 4 | 4 | 4 | 2 | 4 | 2 | | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | | | 4 | 2 | 4 |

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

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

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

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| FISCHER 344 RATS-NCTR RATS MALE
ALOEWHOLLEAF 1.5 | 0642 | 0646 | 0649 | 0673 | 0677 | 0677 | 0677 | 0677 | 0677 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | 0683 | |
| ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Hyperplasia, Lymphoid Inflammation | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | 3 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | 2 | | | | | | 3 | | | | | | | | | | | | | 1 | | | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | |
| Atrophy | 3 | 2 | | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | | | 3 | 2 | 2 | 2 | | | | 2 | 2 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | M | M | + | + | + | M | + | + | + | M | + | M | + | M | + | + | + | + |
| Galactoceles | | X | X | | | X | | | | | X | | X | | | | | X | | | | | | X |
| Lactation | 2 | 2 | | | | | | | | 2 | 3 | | | | | | | | | | | | | 2 |
| Alveolus, Hyperplasia | | | 3 | | | | | | | | 2 | | | | | | | | | | | | | 2 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | X | | | | | | | | | | | | | | | | | |
| Foot, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | |
| Cartilage, Sternum, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| FISCHER 344 RATS-NCTR 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 | |
| ALOEWHOLLEAF 1.5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 6 | 6 | 5 | 3 | 1 | 6 | 7 | 6 | |
| | 4 | 4 | 9 | 3 | 3 | 3 | 0 | 3 | 8 | 9 | 3 | 2 | 6 | 8 | 3 | 3 | 8 | 3 | 0 | 7 | 3 | 1 | 6 | 3 | 2 | |
| | 2 | 6 | 7 | 7 | 7 | 7 | 0 | 7 | 0 | 1 | 7 | 2 | 5 | 9 | 7 | 7 | 2 | 1 | 7 | 4 | 8 | 7 | 0 | 7 | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | | |
| | 1 | 1 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |

Bone, Femur +

Skeletal Muscle + +

NERVOUS SYSTEM

Brain, Brain Stem +
 Hypothalamus, Compression 2 3 3 3 3 4

Brain, Cerebellum +

Brain, Cerebrum +
 Hemorrhage 2
 Hydrocephalus 2

Peripheral Nerve + + +

Spinal Cord + + +
 Hemorrhage 3

RESPIRATORY SYSTEM

Lung +
 Granuloma
 Hemorrhage
 Metaplasia, Osseous 1
 Alveolar Epithelium, Hyperplasia 1
 Alveolus, Infiltration Cellular, Histiocyte 1 1 2 1
 Alveolus, Inflammation 3

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|--------------------|
| | 0
6
4
2 | 0
6
4
6 | 0
6
9
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
0
7 | 0
7
3
7 | 0
6
8
0 | 0
6
9
1 | 0
7
3
7 | 0
6
6
2 | 0
6
8
5 | 0
7
3
7 | 0
7
3
7 | 0
4
8
2 | 0
6
3
1 | 0
6
0
7 | 0
5
7
4 | 0
3
3
8 | 0
1
6
7 | 0
6
3
0 | 0
7
7
0 | 0
6
7
7 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
0
1
1 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
0
1
1 | | |
| | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 1
1
1
1
1 | | |
| | 1 | 1 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 9 | 9 | 0 | 0 | 0
0
0
2
2 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1
1
1
2
2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | X | | | | | | | | | | | | | | | | | | | | | | | |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | | | | | | X |
| Retina, Degeneration | 2 | | | | | | | | | | | | | | 1 | | | | | | | | 3 | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 1 | 3 | 2 | 4 | 2 | 3 | 3 | 3 | 2 | 4 | 3 | 1 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | | | 2 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | X |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----|
| | 050 | 055 | 073 | 077 | 068 | 077 | 077 | 050 | 066 | 055 | 066 | 077 | 044 | 044 | 066 | 066 | 066 | 055 | 044 | 077 | | 077 | 077 | 077 | 077 |
| ANIMAL ID | 011 | 012 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 016 | 016 | 016 | 016 | 016 | 016 | 016 | 016 | 019 | 019 | 019 | 019 | 019 | 019 | 019 | 019 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 0 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Ascending Colon | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mucosa, Hyperplasia | | | 3 | 3 | 3 | 3 | 4 | 2 | 4 | 4 | 2 | | 2 | | 4 | 2 | | 4 | 3 | 4 | 4 | | | | 32 3.2 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Dilatation | X | X | | | | | | X | X | | | | X | | X | | | X | X | | X | | | | 17 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Mucosa, Hyperplasia | | | 2 | 2 | | | | 2 | 2 | 4 | 4 | | | 3 | | 1 | | | | 3 | 2 | 2 | 2 | | 25 2.4 |
| Intestine Large, Colon | | | | | | | | | | | | + | | | | | | | | | | | | | 5 |
| Mucosa, Hyperplasia | | | | | | | | | | | 4 | | | | | | | | | | | | | | 4 3.8 |
| Intestine Large, Descending Colon | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | | | | 2 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 2 | | 30 1.7 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mucosa, Hyperplasia | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | 4 2.0 |
| Intestine Large, Transverse Colon | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----------|------------|------------|------------|
| | 050 | 055 | 073 | 077 | 069 | 073 | 073 | 050 | 068 | 055 | 074 | 044 | 046 | 066 | 066 | 054 | 045 | 072 | 073 | 077 | | 077 | | | | |
| ANIMAL ID | 011 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | | | | | |
| Mucosa, Hyperplasia | | | 2 | 2 | 2 | 4 | 2 | 2 | 3 | 3 | 1 | | 3 | | 4 | | 2 | | 3 | 3 | 3 | 4 | 34 | 2.4 | | |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 6 | 2.2 | |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 2 | 3.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 | |
| Intestine Small, Jejunum
Inflammation
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | 1 | 2.0 | |
| | | | | | 2 | | | | | | | | 2 | | | | | | | | | | 1 | 1 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2.0 | |
| Liver
Angiectasis
Basophilic Focus, Multiple
Cyst Multilocular
Eosinophilic Focus
Granuloma
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule
Infiltration Cellular, Lymphocyte
Infiltration Cellular, Polymorphonuclear
Necrosis, Coagulative
Regeneration
Tension Lipidosis
Vacuolization Cytoplasmic
Bile Duct, Hyperplasia
Centrilobular, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 1.7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----|
| | 050 | 055 | 073 | 077 | 069 | 073 | 073 | 050 | 068 | 059 | 061 | 074 | 044 | 044 | 066 | 066 | 066 | 054 | 047 | 077 | | 077 | 077 | 077 | |
| ANIMAL ID | ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 011 | 012 | 012 | 012 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | | |
| Hepatocyte, Periportal, Hypertrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Median Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Right Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 24 | 1.8 |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | 41 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 32 | 3.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4.0 |

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
5
0 | 0
3
5 | 0
7
3 | 0
7
3 | 0
6
9 | 0
7
3 | 0
7
3 | 0
5
0 | 0
6
8 | 0
5
4 | 0
7
3 | 0
4
7 | 0
4
9 | 0
6
2 | 0
6
6 | 0
6
7 | 0
5
4 | 0
4
5 | 0
7
2 | 0
7
3 | | 0
7
1 | 0
7
3 | 0
7
3 |
| ANIMAL ID | 0
1
1
2
2 | 0
1
2
2
1 | 0
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2 | 0
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1 | 0
1
2
3
1 | 0
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3
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2 | 0
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3
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2 | 0
1
3
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2 | 0
1
3
2
2 | 0
1
6
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2 | 0
1
6
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2 | 0
1
6
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2 | 0
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5
2 | 0
1
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1 | 0
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1 | 0
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6
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1 | 0
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0 | 0
1
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9
1 | 0
1
9
9
1 | 0
1
9
9
1 | 0
1
9
9
1 | 0
1
9
9
1 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | |
| Stomach, Glandular Edema | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Mucosa, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | 11 2.4 | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Cardiomyopathy | 1 2 2 X 3 2 2 2 3 2 X 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | 32 2.0 | | | |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | 3 1.7 | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Vacuolization Cytoplasmic | 3 3 2 2 2 | | | | | | | | | | | | | | | | | | | | 14 2.2 | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | 3 2.0 | | | |
| Hyperplasia, Focal | 2 2 4 2 3 | | | | | | | | | | | | | | | | | | | | 6 2.8 | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | 48 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|--------|
| | 050 | 055 | 073 | 077 | 069 | 073 | 073 | 050 | 068 | 055 | 074 | 044 | 044 | 066 | 066 | 066 | 054 | 045 | 072 | 073 | | 077 | 073 |
| ANIMAL ID | 011 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Angiectasis | | | | | 2 | | | | | | | | | | | | | | | | | | 5 2.0 |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Distalis, Cyst | | | | | X | | X | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Hyperplasia | | | | | 2 | | | | | | 2 | | | | | | | | | | | | 5 2.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| C-cell, Hyperplasia | | | | | 1 | | | | | 3 | | | | | | | | | | | | 1 | 6 1.5 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | 2 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Exfoliated Germ Cell | | | | | 2 | | | 1 | 1 | | 1 | | | | | 2 | | 4 | | 3 | | | 23 2.1 |
| Hypospermia | | | 4 | 4 | 4 | 4 | 4 | | | | 4 | | | | 4 | 4 | 2 | | 3 | 4 | 4 | 4 | 26 3.6 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | 3 | 3 | 2 | 2 | 2 | 1 | 2 | | 2 | | 1 | 2 | 2 | 2 | 2 | 4 | 3 | | 4 | 2 | 4 | 4 | 37 2.3 |
| Duct, Ectasia | | | | | | 3 | 2 | | 2 | | | 2 | | | | | | | | | 2 | | 9 2.3 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Inflammation | 3 | | | 2 | 2 | 2 | 3 | | | | | | | 3 | | 3 | | | 2 | | 2 | 2 | 27 2.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|
| | 050 | 055 | 073 | 077 | 068 | 077 | 073 | 050 | 068 | 059 | 065 | 074 | 044 | 046 | 066 | 066 | 067 | 054 | 047 | 077 | | 077 | 073 |
| ANIMAL ID | 011 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 013 | 016 | 016 | 016 | 016 | 016 | 016 | 016 | 016 | 019 | 019 | 019 | 019 | 019 | 019 |
| Seminal Vesicle Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Decreased Secretory Fluid | | | | 2 | | 2 | | | 3 | 3 | | | | | 4 | | 3 | | | 2 | | 2 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | 2 | | | |
| Seminiferous Tubule, Atrophy | | | | 3 | | | | 1 | | | | | | 3 | | | | | | 3 | | 4 | 4 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | 3 | | 3 |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | + | | | | + | | | | + | | + | + | + | | + | | + | |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Degeneration, Cystic | | | | | 2 | | | | | 3 | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | 2 | | | | | | 3 | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | 3 | 2 | | | 3 | 2 | 2 | | | | | | | 2 |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | | 3 | 3 | 3 | 4 | 4 | 4 | | 4 | | 4 | 4 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|
| | 050 | 055 | 073 | 077 | 068 | 077 | 077 | 050 | 066 | 055 | 077 | 044 | 044 | 066 | 066 | 066 | 055 | 044 | 077 | 077 | | 077 | 077 |
| ANIMAL ID | 011 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 9 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hyperplasia, Lymphoid Inflammation | | | | 4 | | | | | | | | | | | | | | | | | | | | 4 | 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 |
| Infarct | | | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Pigmentation | 3 | 2 | | | | | | | | 2 | | | | | | | | | | | | | | 6 | 2.2 |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Thymus | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | |
| Atrophy | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | | 3 | 3 | 2 | 2 | | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 40 | 2.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 | |
| Galactocele | | | | | | | | | | X | X | | | | | | | | | | | | X | 10 | |
| Lactation | | | | | | | | 3 | 3 | | | | | 1 | | | | | 1 | | | 3 | | 10 | 2.2 |
| Alveolus, Hyperplasia | | | | | | 1 | | | | | | | | | | | | 2 | | | | 3 | | 6 | 2.2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Foot, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cartilage, Sternum, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-------|
| | 050 | 055 | 073 | 077 | 069 | 073 | 073 | 050 | 068 | 055 | 074 | 074 | 066 | 066 | 066 | 054 | 074 | 077 | 077 | 077 | | 077 |
| ANIMAL ID | 011 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 016 | 016 | 016 | 016 | 016 | 016 | 016 | 019 | 019 | 019 | 019 | 019 | 019 | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | 2 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hypothalamus, Compression | | | | | | | | 3 | 3 | | | | | | | | | | | | 3 | 9 3.0 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | 3 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | | | | | | 1 | | | | | | | | | | | | | 6 1.2 |
| Alveolus, Inflammation | | | | | | | | | | 2 | | | | | | | | | | | | 2 2.5 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|
| | 050 | 055 | 073 | 077 | 069 | 073 | 073 | 050 | 068 | 055 | 074 | 044 | 044 | 066 | 066 | 066 | 054 | 045 | 072 | 073 | | 077 |
| ANIMAL ID | ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | |
| | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 |
| Nose Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | 1 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy | 2 | 1 | 3 | 4 | 1 | 2 | 3 | 3 | 3 | | 3 | 1 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 1 | 4 | 2 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20116 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Aloe vera whole leaf extract (native)
CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
Time Report Requested: 14:39:01
First Dose M/F: 04/17/05 / 04/17/05
Lab: NCTR

*** END OF MALE DATA ***

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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7 | 0
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7 | 0
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0 | 0
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2 | 0
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6 | 0
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1 | 0
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9
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2 | 0
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1 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Ascending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Descending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Transverse Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver
Basophilic Focus, Multiple | | X | X | | X | | | | | | X | X | | | | X | X | X | X | X | | | | | | X |
| Cyst Multilocular | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 2 | 2 | | | 2 | | | | | | 1 | 2 | | 1 | | 4 | | 2 | 2 | 2 | | | | | | 1 |
| 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

| FISCHER 344 RATS-NCTR RATS FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
| | 0737 | 0737 | 0737 | 0701 | 0670 | 0732 | 0772 | 0486 | 0548 | 0662 | 0777 | 0777 | 0774 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | |
| Angiectasis | 3 | | | | | 3 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Fibrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | 1 | 2 | | | | 3 | | 2 | | | | | | | | | | 1 | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Angiectasis | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | | | 2 | 1 | 1 | 3 | | | | | | 3 | | | 1 | | 2 | | 1 | | 2 | | 2 | | 1 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | 3 | 3 | 2 | 2 | 3 | 3 | | 1 | 3 | | | 2 | 2 | 3 | | 2 | 3 | 4 | 2 | 3 | 2 | 2 | 1 | |
| Duct, Ectasia | | | | | 2 | | | | | | | | | | 3 | | | | | 2 | | 2 | 3 | | |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 3 |
| Cyst | | | | | | | | | | | | X | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Hypoplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Cervix, Mucocyte, Metaplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | 2 | | | | | | | | | | | | | | 2 | | | | |
| Horn, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | + | + | | + | | | | | | | | | | | | | | | | | |
| Dilatation | | | | | X | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucocyte, Hyperplasia | | | 3 | 2 | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node | | | | + | + | | | | | | | | + | + | | | | | | | | | | + |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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. 20116 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | 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 | ANIMAL ID | females
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 3 | 3 | 3 | 0 | 9 | 3 | 0 | 8 | 4 | 6 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | |
| | 7 | 7 | 7 | 1 | 0 | 7 | 2 | 6 | 8 | 2 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 0 | |
| | 9 | 9 | 0 | 0 | 0 | 0 | 2 | 4 | 4 | 1 | 1 | 3 | 3 | 4 | 4 | 7 | 7 | 0 | 0 | 9 | 9 | 0 | 0 | 1 | 0 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 0 | |

Alveolus, Hypertrophy

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Alveolus, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epidermis, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Epidermis, Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Foot, Hyperkeratosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypothalamus, Compression | 2 | | | | | | 4 | | 3 | | | 3 | 2 | | | | 2 | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydrocephalus | | | | | | | | | | 2 | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granuloma | 3 | | 3 | | | | | | | | | | | | | 2 | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | 1 | | | | | | 4 | 2 | | 1 | | 2 | 1 | | | | |
| Alveolus, Inflammation | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | 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 | 7 | 7 | 6 | 7 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | | |
| | 3 | 3 | 3 | 0 | 9 | 3 | 0 | 8 | 4 | 6 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 8 | | |
| | 7 | 7 | 7 | 1 | 0 | 7 | 2 | 6 | 8 | 2 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | | | |
| | 9 | 9 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 1 | 1 | 3 | 3 | 4 | 4 | 7 | 7 | 0 | 0 | 9 | 9 | 0 | 0 | 1 | | | |
| | 1 | 2 | 1 | 2 | 1 | 0 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | | |

Inflammation
Osteopetrosis

1

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
Retina, Degeneration

+
2 1 2

Harderian Gland
Infiltration Cellular, Lymphocyte
Inflammation

+
1 2 2 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 2 1 2 2

Zymbal's Gland

+

URINARY SYSTEM

Kidney
Hydronephrosis
Infarct
Mineralization
Nephropathy

+
2 2 2 2 2 2 2 2 2 2 2 3 2 1 2 2 2 2 2 2 2 2 2 2
3 1 2 2 2 3 2 2 4 3 2 1 3 2 2 3 2 1 3 2 2 2 2 3 2

Urinary Bladder
Dilatation

+
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
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0737 | 0688 | 0599 | 0737 | 0737 | 0737 | 0737 | 0467 | 0677 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0677 | 0737 | | 0677 | 0737 | 0537 |
| ANIMAL ID | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------------|
| Esophagus Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 4.0 |
| Intestine Large, Ascending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 47 |
| Intestine Large, Cecum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Descending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 47 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Transverse Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 47 |
| Intestine Small, Duodenum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 2.0 |
| Intestine Small, Ileum Lymphoid Tissue, Hyperplasia | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
1 3.0 |
| Intestine Small, Jejunum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Basophilic Focus, Multiple | | X | | X | X | | | | X | X | X | | X | X | | X | X | | X | | | | 22 | |
| Cyst Multilocular | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eosinophilic Focus | X | | | | | | | | | | | | X | | | X | | | | | | | 5 | |
| Granuloma | 2 | | | 1 | 1 | | | 2 | 2 | | | 2 | 2 | | | | 2 | 2 | | 3 | | | 21 1.9 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | | | X | | | | | | | | | | | 4 |

* .. 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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| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|------|-----|
| | 0737 | 0688 | 0599 | 0737 | 0777 | 0777 | 0777 | 0467 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0077 | 0777 | 0677 | 0777 | 0677 | | 0777 | 0537 | 0577 | |
| ANIMAL ID | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Vacuolization Cytoplasmic | 1 | | | | | | | | | | | | | 2 | | | | | | | | | | 6 | 2.5 |
| Bile Duct, Hyperplasia | 1 | | 1 | | | | | 2 | | | | | 1 | | | | | | 2 | | 2 | | | 9 | 1.6 |
| Left Lateral Lobe, Developmental Malformation | | | | X | | | | X | | | | | | | | | | | | | | | | 4 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.8 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Acinar Cell, Atrophy | | 3 | | | | | | | | | | | | | | | | | 1 | | | | | 10 | 2.1 |
| Proximal Colon | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | A | + | 43 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Acinar Cell, Atrophy | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Cardiomyopathy | 1 | | 2 | 2 | 2 | | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 1 | 2 | 2 | | 3 | 35 | 1.8 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|
| | 0737 | 0688 | 0599 | 0737 | 0777 | 0777 | 0467 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | |
| ANIMAL ID | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | 00912 | | |
| Angiectasis | 2 | 1 | | 2 | 3 | 2 | 3 | | 2 | | | 3 | 1 | 2 | 1 | | 2 | 3 | | 1 | 2 | 31 | 2.1 |
| Fibrosis, Focal | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hypertrophy, Focal | | | | | | | | | | | | 1 | | | | | | | | | | 2 | 1.5 |
| Vacuolization Cytoplasmic | | | | | | | | 2 | | | | | | | | | | | | | | 6 | 1.8 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Angiectasis | | | | | 2 | | | | | | | | | | 2 | | | | | | | 2 | 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Angiectasis | | | | | | | | | | | 3 | | | | | | | | | | | 2 | 3.0 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Pars Distalis, Hyperplasia | | | | | | | | | | 2 | 1 | | | | 2 | | | | | | | 3 | 1.7 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| C-cell, Hyperplasia | | | | | 3 | | | | | 3 | 1 | 3 | | | | | | 2 | | | | 15 | 1.9 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | 2 | 2 | | 3 | 2 | | 1 | 2 | 3 | | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | 33 | 2.2 |
| Duct, Ectasia | | | | | | | | 2 | 4 | 2 | 2 | 2 | | | | | 2 | | | | 2 | 12 | 2.3 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|
| | 0737 | 0688 | 0599 | 0737 | 0777 | 0777 | 0467 | 0677 | 0725 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0077 | 0777 | 0677 | 0777 | 0677 | | 0777 | 0537 | 0537 |
| ANIMAL ID | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 | 009122 |
| Duct, Hyperplasia | 2 | | | | | | | | | | 2 | | | | | | | | | | 2 | 2.0 | | |
| Ovary | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Atrophy | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 47 | 2.3 |
| Cyst | | | | | | | | | | | | | | | | X | 2 | | | | | | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | 4 | 2 | 3.5 | | | | | | |
| Hypoplasia | | | | | | | | | | | | | | | | X | 1 | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Cervix, Mucocyte, Metaplasia | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | 3 | 1 | 3.0 | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | | | | 1 | 2 | 2 | 1 | | | | | 1 | 2 | 10 | 1.7 | | | | |
| Horn, Dilatation | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | | | | |
| Vagina | | | | | | | | | | | | | | | | + | 4 | | | | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | | |
| Mucocyte, Hyperplasia | | | | | | | | | | | | | | | | 3 | 3 | 2.7 | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Lymph Node | | | | | | | | | | | | | | | | + | 9 | | | | | | | |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | | | | 3 | 2 | 2.5 | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | + | 1 | 2.0 | | | | | | |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | 48 | | | |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2.5 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.5 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | 46 | 3 | 2.0 | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | 2 | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2.8 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 2.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | | 46 | 43 | 2.2 | |
| Atrophy | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 | 3 | 2 | 2 | | | | | 1 | 2.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|---|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | 47 | 3 | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lactation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 27 | 1.9 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 27 | 2.0 |

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

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|--------|
| | 0737 | 0688 | 0597 | 0733 | 0773 | 0777 | 0477 | 0667 | 0775 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0073 | 0773 | 0674 | 0773 | 0675 | | 0773 | 0575 | 0775 | |
| ANIMAL ID | 00912 | 00922 | 00991 | 00997 | 00997 | 01000 | 01002 | 01002 | 01002 | 01002 | 01004 | 01004 | 01004 | 01004 | 01007 | 01007 | 01007 | 01007 | 01007 | 01007 | 01007 | 01007 | 01007 | | |
| Alveolus, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epidermis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Foot, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Osteopetrosis | 3 | | | 3 | | 3 | | | | | | | | | | | | | | | | 4 | | | 8 3.0 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hypothalamus, Compression | 1 | | 2 | | | | | 2 | | | | | 2 | 1 | | | | | 3 | | | 2 | | | 13 2.2 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Granuloma | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | 6 2.2 |
| Alveolar Epithelium, Hyperplasia | 2 | | | 1 | | | | | | | | | 3 | | | | | | | | | | | | 4 2.5 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | 2 | | 1 | | 1 | | | | | 2 | 2 | 2 | | | 1 | | | | | | 13 1.7 |
| Alveolus, Inflammation | 2 | | | | | | | | | | | | | | 2 | | | | | | | | | | 3 1.7 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----|-----|-----|
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1 | * TOTALS | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 | 1.8 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | |
| Infiltration Cellular, Lymphocyte | 2 | 2 | | | 2 | | | | 2 | 1 | | 2 | | | | | 1 | 1 | 1 | | | | | 24 | 1.5 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.0 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Infarct | | | | | | | | | 2 | | | | | | | | 3 | | | | | | | 2 | 2.5 | | |
| Mineralization | | 1 | 3 | 2 | | 2 | 2 | 2 | 2 | 3 | 3 | | 2 | 2 | 3 | | | 2 | 2 | 3 | 3 | 2 | 3 | 40 | 2.2 | | |
| Nephropathy | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 47 | 2.1 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| 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 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS FEMALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | |
| ALOEWHOLLEAF 0.5 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 7 | 3 | 3 | 7 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 0 | |
| | 5 | 5 | 8 | 8 | 7 | 8 | 8 | 7 | 7 | 9 | 9 | 0 | 3 | 3 | 6 | 6 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Ascending Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 4 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Intestine Large, Cecum Inflammation | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | 1 | 3 | | | | | | | | 1 | | | | | | | | |
| Intestine Large, Descending Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | 2 | 2 | | 1 | | | 2 | | 1 | 1 | | | | | | | | | 1 |
| Intestine Large, Rectum Polyarteritis | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Transverse Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 2 | 2 | 2 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 4 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Intestine Small, Duodenum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | | 2 | | |
| Intestine Small, Ileum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | 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 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | | |
| ANIMAL ID | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 7 | 3 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | | |
| ANIMAL ID | 5 | 5 | 8 | 8 | 7 | 7 | 8 | 8 | 7 | 9 | 0 | 0 | 3 | 3 | 6 | 6 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | | |
| ANIMAL ID | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Lymphatic, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Submucosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | X | X | | | X | X | X | X | | X | X | X | | X | X | X | | X | X | | X | X | | | |
| Eosinophilic Focus | X | | | X | X | | | | | X | X | | | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 1 | 3 | | | | | 2 | | 1 | 2 | 2 | 2 | 2 | 1 | 1 | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
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 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | |
|--------------------------------------|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|
| FISCHER 344 RATS-NCTR RATS
FEMALE | | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | 07 | 07 | | | | |
| ALOEWHOLLEAF 0.5 | | 20 | 37 | 37 | 37 | 37 | 37 | 37 | 47 | 37 | 37 | 37 | 57 | 37 | 67 | 37 | 37 | 37 | 37 | 17 | 37 | | 37 | 67 | 77 | | | |
| ANIMAL ID | | 00051 | 00082 | 00081 | 00072 | 00071 | 00081 | 00082 | 00071 | 00072 | 00031 | 00032 | 00033 | 00034 | 00041 | 00042 | 00051 | 00052 | 00053 | 00054 | 00071 | 00072 | 00081 | 00082 | 00083 | 00084 | 00091 | 00092 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Proximal Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer Mucosa, Hyperplasia | | 2 | 3 | 3 | 3 | 3 | | 1 | 3 | 2 | | 3 | 2 | 2 | | 2 | 3 | 2 | 1 | 1 | 1 | 1 | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | 2 | | | | | | 4 | |
| Stomach, Glandular Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mucosa, Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | 2 | | | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | | | 2 | | | | | | 3 | | | 2 | 1 | | |
| Hypertrophy, Focal | | | | | | | | 1 | | | | | | 2 | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | 2 | | | | | | | | | | | | | | | | | | 3 | 2 | | 2 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20116 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

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First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | | | | | | | | |
| | | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 7 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 3 | 7 | 3 | 7 | 3 | 7 | | | | | | | |
| uterus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Hyperplasia, Focal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Inflammation | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | |
| Cervix, Mucocyte, Metaplasia | 5 | 5 | 8 | 8 | 7 | 8 | 8 | 7 | 9 | 9 | 0 | 0 | 3 | 3 | 6 | 6 | 6 | 6 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | | | | | | | |
| Cervix, Muscularis, Hyperplasia | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | | | | | |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Horn, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Cyst | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE ALOEWHOLLEAF 0.5 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
| | 0720 | 0730 | 0733 | 0737 | 0773 | 0777 | 0777 | 0777 | 0777 | 0754 | 0773 | 0773 | 0773 | 0775 | 0777 | 0763 | 0776 | 0777 | 0777 | 0777 | 0777 | 0767 | 0773 | 0773 | | |
| Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid Medulla, Sinus, Dilatation | | | 4 | 2 | 3 | | | | 4 | 4 | 3 | 2 | 4 | | | | | | | 2 | 4 | 4 | 3 | | | |
| Spleen Accessory Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy Hematopoietic Cell Proliferation | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal Infarct | 2 | | | | | | | | | | | | | | | | | | | | | 3 | | 3 | | |
| Pigmentation Red Pulp, Hyperplasia | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | |
| Cyst | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Galactocoele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lactation | | | 2 | 1 | | 2 | 2 | 1 | 2 | | 2 | | 2 | 2 | | 3 | | | 2 | 3 | | 2 | | 2 |
| Alveolus, Hyperplasia | 4 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | 2 | 2 | 2 | 3 | 3 | | 2 | 2 | 3 | | 2 | 2 | 3 |
| Skin Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epidermis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |

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 Lab: NCTR

| | | 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...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | | |
| | ANIMAL ID | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 1 | 3 | 3 | 7 | 3 | 3 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 0 | | |
| | | 5 | 5 | 8 | 8 | 7 | 7 | 8 | 8 | 7 | 9 | 0 | 0 | 3 | 3 | 6 | 6 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Vertebra, Fracture | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | + | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Diaphragm, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypothalamus, Compression | | | | | | | | | | 2 | 2 | | 2 | 3 | 3 | | | | | | | 3 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----------------------|
| | | 070 | 073 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | |
| ANIMAL ID | | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | |
| | | 51 | 52 | 81 | 82 | 71 | 72 | 81 | 82 | 71 | 72 | 81 | 82 | 71 | 72 | 81 | 82 | 71 | 72 | 81 | 82 | 71 | 72 | 81 | 82 | 71 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1 | 1 |
| Alveolus, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Retina, Degeneration | 2 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Inflammation | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
| | 0
7
2
0 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
5
4
4 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
5
7
7 | 0
6
3
9 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
6
7
7 | 0
7
3
7 | 0
7
3
7 | | | |
| Mineralization | 2 | 2 | | | 2 | 2 | 1 | | 2 | | 2 | | 2 | 2 | 1 | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | |
| Nephropathy | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | 2 | 2 | 3 | | 3 | 1 | 3 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 2 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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TDMS No. 20116 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0647 | 0733 | 0733 | 0355 | 0699 | 0522 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0688 | 0555 | 0493 | 0733 | 0733 | 0542 | 0477 | | 0733 |
| FISCHER 344 RATS-NCTR RATS FEMALE | 047 | 073 | 073 | 035 | 069 | 052 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 068 | 055 | 049 | 073 | 073 | 054 | 047 | 073 | 073 |
| ALOEWHOLLEAF 0.5 | 01032 | 01044 | 01044 | 01077 | 01077 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 |
| ANIMAL ID | 01032 | 01044 | 01044 | 01077 | 01077 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 | 01088 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 47 |
| Intestine Large, Ascending Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mucosa, Hyperplasia | | 2 | 1 | | 1 | 3 | 1 | | 1 | 3 | 2 | 2 | 1 | 3 | 2 | | 1 | 1 | | 2 | 1 | 2 | 40 2.0 |
| Intestine Large, Cecum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | 4 1.8 |
| Intestine Large, Descending Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mucosa, Hyperplasia | | 2 | 1 | | 1 | | 1 | | | 2 | 2 | 1 | 1 | 2 | | | | | 1 | | | | 17 1.4 |
| Intestine Large, Rectum Polyarteritis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Transverse Colon Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Mucosa, Hyperplasia | | 2 | 1 | | 2 | 2 | 1 | | | 2 | 2 | 2 | 1 | 3 | 1 | | 1 | 2 | 1 | | 1 | 1 | 40 1.7 |
| Intestine Small, Duodenum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | 4 2.0 |
| Intestine Small, Ileum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20116 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|-------|
| | 0647 | 0733 | 0733 | 0735 | 0736 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | 0737 | |
| ANIMAL ID | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.5 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Lymphatic, Dilatation | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Submucosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Basophilic Focus | | | | X | | | | | | | | | | | | | | | | | | 1 | |
| Basophilic Focus, Multiple | | | X | | | | X | X | X | X | | X | | X | X | X | X | | | X | | 27 | |
| Eosinophilic Focus | | | X | | | | | | X | | | | | | | | | | | | | 7 | |
| Eosinophilic Focus, Multiple | | | | | | | | | | X | | | | | | | | | | | | 1 | |
| Granuloma | | | 2 | | | 1 | 1 | | 1 | 2 | | | | 2 | 1 | | 2 | | 2 | | | 19 | 1.6 |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Lymphocyte | | | | | | 1 | | 2 | | | | | | | | | | | 2 | | | 3 | 1.7 |
| Vacuolization Cytoplasmic | | 3 | | 2 | | | | | 2 | | | | | | | | | 2 | | 3 | 4 | 9 | 2.6 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | 1 | 1 | | | | | | 5 | 1.4 |
| Left Lateral Lobe, Developmental Malformation | X | | | | | | | | X | | | | | | | | | | | | | 2 | |
| Mesentery | | | | + | | | | | | | | | | + | | | | | | | | 9 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fat, Necrosis | | | | 3 | | | | | | | | | | 3 | | | | | | | | 8 | 2.6 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Acinar Cell, Atrophy | 2 | 1 | 2 | | | | | | 2 | | | | 1 | 2 | 1 | | | | | | | 11 | 1.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0647 | 0733 | 0733 | 0735 | 0699 | 0523 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0688 | 0555 | 0493 | 0733 | 0733 | 0572 | 0477 | | 0733 | 0731 |
| ANIMAL ID | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Proximal Colon Inflammation | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | 45 | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Mucosa, Hyperplasia | | | 2 | | | 2 | 3 | | 2 | 3 | 3 | 1 | 1 | 3 | 2 | | | | | | | | | | | 2 | 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Stomach, Forestomach Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 3 | 3.0 | |
| Hyperplasia | | | 3 | | | | | | | 3 | | | | 2 | | | | | | | | | | | | 2 | 2.6 |
| Stomach, Glandular Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 3 | 3.0 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mucosa, Necrosis, Focal | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 2 | 1.8 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|----|-----|
| Adrenal Cortex Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Hyperplasia, Focal | | | 2 | | | 2 | 3 | | | 3 | | 2 | 2 | 2 | | 2 | 2 | | | | | | | | | 25 | 2.2 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 2 | 1.5 |
| Vacuolization Cytoplasmic | | | 3 | | | | | | | | 2 | | | | | | | | | | | 3 | | | | 7 | 2.4 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0647 | 0737 | 0737 | 0356 | 0698 | 0523 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0684 | 0556 | 0496 | 0737 | 0737 | 0527 | | 0477 | 0737 |
| ANIMAL ID | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 |
| Adrenal Medulla | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | 2 | | | | 1 | | | 2 | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | X | | | | | | X | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | 2 | | | | | | | | | 3 | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | 2 | 1 | | 1 | 2 | | | | 2 | | | 1 | 1 | | 2 | | | | | | 2 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | 1 | | 1 | | 2 | 3 | 2 | 2 | 2 | 2 | | 2 | 3 | | 1 | 3 | | 1 | | 3 | 1 | |
| Duct, Ectasia | | 2 | | | | | | | | 2 | | 3 | 2 | 3 | | | | 4 | | | | 2 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | | | 4 | 2 | 2 | 3 | 2 | 2 | 4 | 3 | 2 | 4 | 2 | | 2 | 2 | | 3 | 3 | 3 | 3 |
| 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
 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0647 | 0733 | 0733 | 0735 | 0736 | 0738 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | 0737 |
| ANIMAL ID | 01032 | 01141 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hyperplasia, Focal Inflammation | | | 2 | | | | | | | | | | | | | | | | | 1 | | 1 2.0 |
| Cervix, Mucocyte, Metaplasia | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Cervix, Muscularis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Endometrium, Hyperplasia, Cystic Horn, Dilatation | | 2 | | | | | 2 | 2 | | 2 | 3 | 2 | 1 | | | | | 3 | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | 2 | 16 1.9 |
| | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Vagina | + | | | | + | | | | | | | | | | | | | | + | | | 3 |
| Dilatation | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Mucocyte, Hyperplasia | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | 3 | | | | | | | | | | | | | | | | | | | 1 | | 2 2.0 |
| Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | 2 | | 4 2.3 |
| Lymph Node | + | | | | + | | | | | | | | | | + | | | | | | | 7 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Polyarteritis | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mediastinal, Medulla, Sinus, Dilatation | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 47 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Degeneration, Cystic | | | | | 2 | | | | 2 | | | | | | | | | | | | | 3 2.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | 2 | | | | 3 | 2 | | 2 | | | 2 | 2 | 9 2.3 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|----|-----|
| | 0647 | 0733 | 0733 | 0735 | 0736 | 0738 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | 0737 | | |
| ANIMAL ID | 01032 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | 01141 | | | |
| Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | 16 | 3.2 |
| Hyperplasia, Lymphoid Medulla, Sinus, Dilatation | | | | 2 | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Spleen Accessory Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.8 |
| Infarct | | | | | X | | | | | | | | | | | | | | | | | | 2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.3 |
| Red Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | 44 | 2.2 |
| Cyst | 2 | 3 | 2 | 2 | 3 | | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | | | | | | | | 1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | |
| Lactation | | | | | | | | | | | | | | | | | | | | | | | 28 | 2.1 |
| Alveolus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 38 | 2.2 |
| Skin Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | 2.0 |
| Epidermis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 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
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
| | 0647 | 0733 | 0733 | 0735 | 0699 | 0522 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0684 | 0556 | 0496 | 0733 | 0733 | 0547 | | 0473 | 0731 | 0731 |
| ALOEWHOLLEAF 0.5 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | |
| 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | |
| 0321 | 0442 | 0442 | 0711 | 0711 | 0811 | 0811 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | 0821 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Cervical, Vertebra, Fracture | | | | | | | | | | | | | | | | | | | | | | | | X | X | 2 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Osteopetrosis | 3 | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3.0 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Diaphragm, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|-----|---|---|---|----|-----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | | | | | | |
| Hypothalamus, Compression | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | 3 | 1 | 4 | 2 | 14 | 2.4 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | | | | | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. 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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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0647 | 0733 | 0735 | 0736 | 0738 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | 0737 |
| ANIMAL ID | 01032 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | |
| Granuloma | | | | | | | 2 | | | | | | | | | | | 1 | | 3 | 4 2.0 | |
| Hemorrhage | | | 2 | | | | | | | | | 2 | | | | | | | | | | 2 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.5 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | | | | | 1 | | | | | | | | | 1 | | | | 8 1.1 |
| Alveolus, Inflammation | | | | | | | | | | | 2 | | 2 | | | | | | | | 2 | 4 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Inflammation | | | 2 | | | 2 | 2 | | | | | | | | | | | | | | | 6 2.0 |
| Osteopetrosis | 2 | | | | | | | | | | | | | | | 3 | | | | | | 2 2.5 |
| Goblet Cell, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Cataract | | | | | | | | | | | | | | | X | | | | | | | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | | | | 1 |
| Retina, Degeneration | | | 2 | | | | 3 | | | | | | 4 | | | | | | | | | 8 2.9 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Infiltration Cellular, Lymphocyte | | | 2 | 2 | | | 1 | 1 | 2 | | 1 | 1 | | | 2 | | | 1 | | 1 | | 21 1.3 |
| Inflammation | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20116 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
| | 0647 | 0733 | 0735 | 0698 | 0523 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0684 | 0556 | 0493 | 0773 | 0773 | 0547 | 0477 | | 0773 | 0773 |
| FISCHER 344 RATS-NCTR RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | |
| ALOEWHOLLEAF 0.5 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | 01032 | |
| Mineralization | | | 2 | 2 | 2 | 1 | 3 | 2 | 2 | | 2 | 2 | 3 | | 3 | 1 | 2 | | 1 | 2 | 1 | | |
| Nephropathy | 2 | 4 | 2 | 1 | 1 | 1 | 3 | 2 | 2 | 4 | 3 | 2 | 3 | 2 | | 1 | 2 | 2 | 1 | 2 | 3 | 4 | 4 |
| 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
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| 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 | ANIMAL ID | females
(cont...) | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|
| | 7 | 7 | 5 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 5 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 5 | 7 | 7 | 6 | | | 7 | 7 |
| FISCHER 344 RATS-NCTR RATS FEMALE ALOEWOLLEAF 1.0 | 3 | 3 | 0 | 8 | 3 | 5 | 3 | 3 | 3 | 1 | 9 | 3 | 7 | 2 | 3 | 3 | 1 | 7 | 6 | 6 | 7 | 3 | 3 | 5 | 3 | 3 | 7 | |
| | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 9 | 7 | 7 | 9 | 2 | 6 | 6 | 2 | 7 | 7 | 7 | 7 | 3 | 1 | |
| | 0 | 0 | 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 | |
| | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 0 | 0 | |
| | 3 | 3 | 4 | 4 | 7 | 9 | 9 | 0 | 0 | 5 | 5 | 6 | 6 | 1 | 1 | 1 | 7 | 7 | 8 | 8 | 5 | 5 | 6 | 6 | 5 | 0 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | |
| Lymphoid Tissue, Hyperplasia | | | | | 1 | 1 | | 1 | 2 | 2 | | 2 | 3 | | 3 | 1 | 2 | | 1 | | 2 | 2 | 2 | 1 | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | 2 | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Angiectasis | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | X | | | | | X | X | X | | | X | | | | X | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | X | | | | | | | | X | | | | | | | | | | | | | |
| Granuloma | 2 | | | | 2 | 2 | 2 | 2 | | | 1 | 1 | | 2 | 2 | | | | 1 | | | | 2 | 1 | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Coagulative | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | |
| Tension Lipidosis | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | | 3 | | | | | | | | 2 | | | | | | | | | 3 | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | | | | |
| Caudate Lobe, Developmental Malformation | X | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Periportal, Inflammation, Chronic | | | | | | 2 | | | | | X | | | | | | | | | | | | | | | | | |
| Right Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|--|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|--|--|
| | | 0737 | 0737 | 0756 | 0767 | 0775 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | | |
| FISCHER 344 RATS-NCTR RATS FEMALE | | 0737 | 0737 | 0756 | 0767 | 0775 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | |
| ALOEWHOLLEAF 1.0 | | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | 00131 | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, 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

1-4 .. Lesion qualified as:
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| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0737 | 0737 | 0506 | 0683 | 0753 | 0753 | 0773 | 0773 | 0773 | 0419 | 0533 | 0737 | 0747 | 0773 | 0773 | 0617 | 0557 | 0666 | 0573 | 0733 | 0653 | 0773 | 0773 | 0673 | | |
| | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | |
| | 31 | 32 | 41 | 42 | 71 | 72 | 99 | 90 | 00 | 55 | 66 | 61 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 1 | | 1 | | | 2 | 1 | 2 | | 1 | 2 | | 2 | 1 | 2 | | | 1 | 1 | 1 | 1 | 2 | 2 |
| Atrium, Thrombus | | | | | | | | | | | | | X | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | 2 | | 3 | 3 | | 2 | 3 | 2 | | 3 | | | | | 2 | 2 | 2 | 3 | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | 1 | | 2 | | 3 | |
| Vacuolization Cytoplasmic | | | | | | 3 | | | | | | | | | | 3 | | 1 | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Cyst | | | | | | | | X | | | | | | | | | | | | | | | X | |
| Pars Distalis, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | 3 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | X | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 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
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Lab: NCTR

| 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 | |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS FEMALE | | 7 | 7 | 5 | 6 | 7 | 5 | 7 | 7 | 7 | 4 | 5 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | |
| ALOEWHOLLEAF 1.0 | | 3 | 3 | 0 | 8 | 3 | 5 | 3 | 3 | 3 | 1 | 9 | 3 | 7 | 2 | 3 | 3 | 1 | 7 | 6 | 7 | 3 | 3 | 5 | 3 | 3 | 3 | |
| ANIMAL ID | | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 9 | 7 | 9 | 2 | 6 | 2 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 9 | 0 | 1 |
| ANIMAL ID | | 3 | 3 | 4 | 4 | 7 | 7 | 9 | 9 | 0 | 0 | 5 | 5 | 6 | 6 | 1 | 1 | 7 | 7 | 8 | 8 | 5 | 5 | 6 | 6 | 6 | 5 | 1 |
| ANIMAL ID | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

females
(cont...)

GENERAL BODY SYSTEM

Tissue NOS
Fat, Necrosis

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Clitoral Gland
Inflammation | | | | | 2 | | 2 | 2 | | | 2 | | 2 | 2 | 1 | 1 | | 1 | 3 | | 2 | 2 | 2 | | | | 2 | | | |
| Clitoral Gland
Duct, Ectasia | | | | | 2 | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland
Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | |
| Ovary
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ovary
Cyst | 2 | 3 | 3 | | 3 | 2 | 2 | 2 | 3 | | 2 | 2 | | 2 | 1 | 2 | 4 | 4 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | | 2 | | | |
| Ovary
Cyst | | X | | X | | | | | X | | | | | | | | X | | | | | | | | | | | | | |
| Uterus
Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Uterus
Adventitia, Inflammation | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Uterus
Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus
Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus
Horn, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Vagina
Dilatation | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | |
| Vagina
Mucocyte, Hyperplasia | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |

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:
1) Minimal 3) Moderate
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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|
| | 0
7
3
7 | 0
7
3
7 | 0
5
0
6 | 0
6
8
7 | 0
7
3
7 | 0
5
5
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
4
1
5 | 0
5
9
6 | 0
7
3
7 | 0
4
7
9 | 0
7
3
7 | 0
6
1
9 | 0
5
7
2 | 0
6
6
6 | 0
5
7
2 | 0
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7 | 0
7
3
7 | 0
6
5
7 | 0
7
3
7 | 0
6
3
7 | 0
7
5
7 | 0
7
3
7 | | | |
| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
| | 0
0
1
3
1 | 0
0
1
3
2 | 0
0
1
4
1 | 0
0
1
4
2 | 0
0
1
7
1 | 0
0
1
7
2 | 0
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1
9
1 | 0
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2 | 0
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2
0
1 | 0
0
2
5
2 | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
6
1 | 0
0
3
6
2 | 0
0
5
1
1 | 0
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6
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1 | 0
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8
1 | 0
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1 | 0
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5
2 | 0
0
9
5
1 | 0
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9
6
1 | 0
0
9
6
2 | 0
1
0
5
1 | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | 3 | | | | | | | | | 2 | | | | | | | | | | | | | |
| Lymph Node | | | | | + | | | + | | | | | | | + | | | + | | | | | | | | + | | |
| Degeneration, Cystic | | | | | | | | | 2 | | | | | | 2 | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | 2 | | | 2 | | | 2 | | 2 | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | | 3 | 4 | | 2 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Hemorrhage | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | 3 | | | | | | | | 3 | | | 2 | | | | 3 | | | | | | | | | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | |
| Atrophy | 2 | 2 | | | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | | 4 | 3 | 2 | | 2 | 3 | 2 | 2 | | | |

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

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0737 | 0737 | 0506 | 0683 | 0753 | 0753 | 0773 | 0773 | 0419 | 0536 | 0737 | 0747 | 0773 | 0773 | 0619 | 0567 | 0666 | 0573 | 0733 | 0657 | 0773 | 0773 | 0673 | 0733 | | |
| | 0013 | 0013 | 0014 | 0014 | 0017 | 0017 | 0017 | 0017 | 0022 | 0022 | 0023 | 0023 | 0023 | 0025 | 0025 | 0026 | 0026 | 0026 | 0026 | 0029 | 0029 | 0029 | 0029 | 0031 | 0031 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactoceles | | | | | | | | X | | | | | | | | | | | | | | | | |
| Lactation | | 1 | | 2 | | 3 | | 2 | 1 | | 2 | | 2 | 2 | | | | | | | | 4 | 2 | 2 |
| Alveolus, Hyperplasia | 2 | | | 2 | 3 | 2 | | | 2 | | 2 | | 2 | 3 | | | | | 2 | | 2 | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | X | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Osteopetrosis | | | | 3 | | | | | | 3 | | | | | | | 3 | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypothalamus, Compression | | | | | | 2 | | | | | 3 | | 2 | | | | | | | | 2 | 3 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | 2 | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE ALOEWHOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|-------------------|
| | 0737 | 0737 | 0506 | 0673 | 0753 | 0773 | 0773 | 0773 | 0415 | 0573 | 0473 | 0773 | 0773 | 0773 | 0657 | 0566 | 0657 | 0573 | 0773 | 0673 | 0773 | 0673 | 0773 | 0773 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 001131 | 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 | 001131 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 0 | 001131 | |
| | 3 | 3 | 4 | 4 | 7 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | 1 | 1 | 7 | 7 | 8 | 8 | 5 | 5 | 6 | 6 | 5 | 1 | 1 | 001131 | |

Alveolar Epithelium, Hyperplasia 2
 Alveolus, Infiltration Cellular, Histiocyte 1 1 1 1
 Alveolus, Inflammation 2
 Artery, Mineralization 1

Nose +
 Inflammation 1 2 2
 Osteopetrosis 2
 Goblet Cell, Hyperplasia 2

Trachea +

SPECIAL SENSES SYSTEM

Ear +
 Canal, External Ear, Inflammation 3

Eye +
 Cataract X
 Retina, Degeneration 2 2 3

Harderian Gland +
 Hyperplasia 4
 Infiltration Cellular, Lymphocyte 2 1 2 2 1 2 2 2

Zymbal's Gland

URINARY SYSTEM

Kidney +
 Infarct 2

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0737 | 0737 | 0506 | 0687 | 0735 | 0757 | 0777 | 0777 | 0777 | 0415 | 0577 | 0477 | 0727 | 0737 | 0737 | 0617 | 0577 | 0667 | 0577 | 0737 | 0737 | 0677 | 0737 | 0737 | | |
| Mineralization | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 1 | 2 | | 3 | | 3 | 2 | | 2 | | | |
| Nephropathy | 2 | 1 | 1 | 2 | 1 | | 1 | 2 | 1 | | 2 | 2 | 2 | 2 | 1 | 1 | | | | 1 | 1 | 3 | 1 | 3 | 4 | |
| Cortex, Inflammation, Chronic Epithelium, Pelvis, Hyperplasia | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20116 - 03
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 Aloe vera whole leaf extract (native)
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 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 7 | 5 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 6 | 2 | 2 | 2 | 9 | 0 | 3 | 3 | 3 | 6 |
| | 7 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 8 | 9 | 9 | 5 | 3 | 2 | 2 | 6 | 7 | 7 | 5 |
| ALOEWHOLLEAF 1.0 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | |
| | 5 | 7 | 7 | 8 | 8 | 6 | 6 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 2 | 2 | 4 | 4 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Ascending Colon | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | 46 |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | 3 | | | | | | | | 2 | | | | | 2 2.5 |
| Mucosa, Hyperplasia | | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | | 2 | | | 1 | | | | 2 | | | 35 2.3 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Dilatation | | | | | | | | | X | | X | | | | | | | X | | | | X | | 9 |
| Inflammation | | | | | | | | | | | | | | | | | | 2 | | | | 2 | | 2 2.0 |
| Mucosa, Hyperplasia | 2 | 4 | | | | 2 | 2 | 2 | | 4 | 1 | | | | | 2 | | 2 | | | | 2 | | 17 2.2 |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Intestine Large, Descending Colon | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | 46 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mucosa, Hyperplasia | 1 | 1 | 1 | | 2 | | 2 | 2 | 2 | | | | | | | | 1 | | | | | 1 | | 18 1.4 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Transverse Colon | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | 46 |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20116 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0737 | 0737 | 0737 | 0737 | 0750 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | |
| ANIMAL ID | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | | |
| Lymphoid Tissue, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mucosa, Hyperplasia | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | | 1 | 2 | 2 | 33 1.8 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Mucosa, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | 2 | 5 2.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | A | + | A | + | A | + | + | + | + | A | + | + | 43 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 |
| Mucosa, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2 1.5 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | A | + | A | + | A | + | + | + | + | + | + | + | 45 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Basophilic Focus, Multiple | X | | | | | | | X | X | | | X | | | | | | X | | X | | | 12 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Granuloma | 3 | | 3 | 2 | 2 | | | | 2 | 2 | | | | | | | | | | 2 | 2 | | 20 1.9 |
| Hepatodiaphragmatic Nodule | | X | | | X | | | | | | | | X | | | | | | | | | | 4 |
| Infiltration Cellular, Lymphocyte | | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Necrosis, Coagulative | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | 3 | | 2 2.5 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Bile Duct, Hyperplasia | | | | 1 | | | | 1 | | | | 2 | | | | | | | | 1 | | | 6 1.3 |
| Caudate Lobe, Developmental Malformation | | | | | | | | | | X | | | | X | | | | | | | | | 4 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | X | | X | | | | | 3 |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Right Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | 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
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 1) Minimal 3) Moderate
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TDMS No. 20116 - 03
 Test Type: CHRONIC
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 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 04 | 07 | 06 | 06 | 07 | 06 | 07 | 06 | 05 | | 05 | 07 | 07 | 05 |
| ANIMAL ID | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Atrophy | 2 | | 2 | | | | | | 4 | | | | 1 | | | | 1 | | 2 | | 1 | | | 2 | |
| Proximal Colon | + | + | + | + | + | + | + | + | + | + | M | + | A | + | A | + | + | + | + | + | + | + | + | + | + |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 2 | | 3 | 2 | 3 | 2 | 2 | 4 | 4 | 1 | | | | | 3 | | 2 | 2 | 4 | | | 3 | 3 | 2 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0737 | 0737 | 0737 | 0737 | 0530 | 0737 | 0737 | 0737 | 0737 | 0737 | 0436 | 0738 | 0636 | 0636 | 0729 | 0622 | 0622 | 0522 | 0522 | 0733 | | 0733 | 0536 | 0737 | 0737 | 0536 | 0737 | 0737 | 0536 |
| ANIMAL ID | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Cardiomyopathy | | | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | | 2 | 2 | 3 | | | 1 | | | 2 | 1 | | | | | 32 1.5 |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | 1 |
| Angiectasis | | | 2 | | 2 | | | | | 3 | 3 | 3 | | 2 | | | | | 2 | | | | 2 | 2 | | | | | 20 2.4 |
| Hypertrophy, Focal | | | | 2 | | | 2 | | | | | | | | | | | 1 | | | | | | | | | | | 6 1.8 |
| Vacuolization Cytoplasmic | | | | | | | | 2 | | | | | 3 | | | | | | | | | | | | | | | | 5 2.4 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Focal | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Parathyroid Gland | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pars Distalis, Cyst | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | | 4 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| C-cell, Hyperplasia | | 1 | 1 | | | | | | | 2 | 1 | | 1 | | 1 | | | | | | | | | | | 2 | | | 8 1.4 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
5
3
0 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
7
3
7 | 0
4
3
6 | 0
7
3
7 | 0
6
9
8 | 0
6
6
9 | 0
7
2
9 | 0
6
2
5 | 0
7
2
3 | 0
6
9
2 | 0
5
0
2 | 0
5
3
6 | | 0
7
3
7 | 0
7
3
7 |
| ANIMAL ID | 0
1
0
5
2 | 0
1
0
7
1 | 0
1
0
7
2 | 0
1
0
8
1 | 0
1
0
8
2 | 0
1
1
6
1 | 0
1
1
6
2 | 0
1
3
8
1 | 0
1
3
8
2 | 0
1
4
9
1 | 0
1
4
9
2 | 0
1
5
9
0 | 0
1
5
9
1 | 0
1
5
9
2 | 0
1
5
9
1 | 0
1
5
9
2 | 0
1
5
7
2 | 0
1
7
7
1 | 0
1
7
7
2 | 0
1
7
7
2 | 0
1
8
4
1 | 0
1
8
4
2 | 0
1
8
4
2 |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 |
| Hyperplasia | | | | | | | | | | | | | | 2 | | | | 3 | | | | | 3 2.7 |
| Myeloid Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | 2 | | | | | | 3 2.0 |
| Lymph Node | | | | | | | | | + | | | | | | + | | | | | | | + | 8 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Mediastinal, Hemorrhage | | | | | | | | | 2 | | | | | | | | | | | | | 3 | 2 2.5 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | 3 | | | | | 3 2.3 |
| Infiltration Cellular, Plasma Cell | | | | | 3 | | 2 | | | | | | | | | | 3 | | | | | 2 | 9 2.2 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Amyloid Deposition | | | | 3 | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Degeneration, Cystic | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | | | 3 | | 4 | 4 | | 4 | 4 | 4 | 40 3.8 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Medulla, Sinus, Dilatation | | | | 3 | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | 4 | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | 2 | | | | | 5 2.6 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 45 |
| Atrophy | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | | 2 | | 3 | 2 | 2 | 2 | 4 | 40 2.4 |

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

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 04 | 07 | 06 | 06 | 07 | 06 | 07 | 06 | 05 | | 05 | 07 | 07 | 05 |
| ANIMAL ID | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | 00 | 00 | 00 | 00 | 00 | 01 | 01 | 03 | 03 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 07 | 07 | 07 | 07 | 08 | 08 | 08 | 08 |
| | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 01 | 02 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Galactoceles | | | | | | | | X | X | | | | | | | | | | | | | | | | 3 |
| Lactation | 1 | 3 | 2 | 3 | | | 2 | 2 | | 1 | 2 | | 2 | 1 | | 3 | 3 | 2 | | | | | | | 24 2.1 |
| Alveolus, Hyperplasia | | 2 | 2 | 3 | | 2 | 2 | 2 | 4 | 1 | 2 | 2 | 3 | 1 | | 2 | 2 | 1 | | | 2 | | 3 | | 28 2.1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 3.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hypothalamus, Compression | | | | 3 | | | | 2 | | | | | | | | 2 | | | | | | | | | 8 2.4 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Granuloma | | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | 4 1.3 |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 7 | 6 | 7 | 6 | 5 | 5 | 7 | 7 | 5 | |
| FISCHER 344 RATS-NCTR RATS FEMALE | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 6 | 2 | 2 | 2 | 9 | 0 | 3 | 3 | 3 | 6 | |
| ALOEWHOLLEAF 1.0 | | 7 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 6 | 7 | 8 | 9 | 9 | 5 | 3 | 2 | 2 | 6 | 7 | 7 | 5 | 5 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| | | 5 | 7 | 7 | 8 | 8 | 6 | 6 | 8 | 8 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 2 | 2 | 4 | 4 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | | |
| Nephropathy | | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | | 2 | 2 | | 2 | 3 | 2 | | |
| Cortex, Inflammation, Chronic Epithelium, Pelvis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | 48 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 40 2.1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 40 1.8 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 3.0 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 3.0 | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20116 - 03
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 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
| | 0524 | 0737 | 0737 | 0737 | 0737 | 0737 | 0576 | 0467 | 0673 | 0773 | 0443 | 0577 | 0677 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0777 | 0676 | 0676 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000 | | |
| | 2 | 2 | 4 | 4 | 1 | 1 | 2 | 2 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 3 | 3 | 5 | 5 | 6 | 2241 | | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1212 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Ascending Colon Dilatation | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Ascending Colon Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Ascending Colon Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Ascending Colon Mucosa, Hyperplasia | | 2 | 2 | 2 | 4 | 4 | | | | 2 | 3 | 2 | 2 | 3 | | 2 | | 3 | 4 | 2 | 2 | 2 | 4 | 2 | |
| Intestine Large, Cecum Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum Inflammation | X | X | | X | X | | X | X | X | | | X | X | | X | X | | X | X | | | | | | |
| Intestine Large, Cecum Perforation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Intestine Large, Cecum Mucosa, Hyperplasia | 3 | | | 3 | 1 | 4 | | | 3 | 1 | 2 | 2 | 3 | 2 | | 2 | 2 | 3 | 3 | 2 | 4 | | 1 | | |
| Intestine Large, Colon | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Descending Colon Mucosa, Hyperplasia | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Descending Colon Mucosa, Hyperplasia | 2 | 1 | 1 | | 1 | 1 | | | | | | | 2 | 2 | 1 | 2 | 1 | 2 | | 1 | 2 | 2 | 1 | 1 | |
| Intestine Large, Rectum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Rectum Mucosa, Hyperplasia | 2 | 1 | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Intestine Large, Transverse Colon Mucosa, Hyperplasia | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Transverse Colon Mucosa, Hyperplasia | 2 | 1 | 1 | 1 | 4 | 3 | | | | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | | 2 | 4 | 2 | 2 | 1 | 2 | 1 |
| Intestine Small, Duodenum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | 0524 | 0737 | 0737 | 0737 | 0737 | 0737 | 0576 | 0467 | 0673 | 0773 | 0443 | 0577 | 0677 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0676 | |
| ANIMAL ID | 00021 | 00022 | 00041 | 00042 | 00011 | 00012 | 00021 | 00022 | 00022 | 00041 | 00044 | 00044 | 00044 | 00051 | 00055 | 00055 | 00055 | 00061 | 00066 | 00071 | 00073 | 00075 | 00077 | 00077 | 00081 |
| Mucosa, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum
Mucosa, Hyperplasia | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Basophilic Focus, Multiple | | | X | | | X | | X | X | X | | | X | | X | | | | | | X | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | 2 | | 2 | 2 | 1 | | | | 2 | | | 2 | | | 2 | | | 2 | | | | 1 | | |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Regeneration | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | 2 | | | | | | | | | | | | | 2 | | | |
| Bile Duct, Hyperplasia | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | |
| Caudate Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Caudate Lobe, Infarct | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Centrilobular, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Left Lateral Lobe, Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0524 | 0737 | 0737 | 0737 | 0737 | 0737 | 0576 | 0467 | 0673 | 0737 | 0443 | 0577 | 0677 | 0737 | 0737 | 0737 | 0676 | 0737 | 0737 | 0737 | 0737 | 0737 | 0676 | 0676 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Acinar Cell, Atrophy | | | 2 | | | 2 | 1 | | | | | | | 2 | | | 3 | 2 | | | 2 | | 3 | 2 | | |
| Proximal Colon | M | + | + | + | + | + | A | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Inflammation | | 2 | | 2 | | | | | | 2 | | | | | | 3 | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | 2 | | 2 | | | | | 3 | 2 | | 3 | 1 | 2 | | 4 | | 2 | 2 | 3 | 3 | 2 | 2 | 3 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 4 | | | | | | | | | | 2 | | | | | | | 3 | 2 | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | 2 | 2 | 1 | | 2 | | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 | 2 |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | 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. 20116 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|--------------------------|--|
| | 0524 | 0737 | 0777 | 0777 | 0777 | 0777 | 0575 | 0464 | 0666 | 0777 | 0474 | 0575 | 0777 | 0666 | 0777 | 0777 | 0777 | 0666 | 0777 | 0777 | 0777 | 0777 | 0666 | 0666 | | | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 000000000000000000000000 | | |
| | 2000 | 2000 | 4000 | 4000 | 1000 | 1000 | 2000 | 2000 | 5000 | 5000 | 7000 | 8000 | 8000 | 9000 | 9000 | 0000 | 0000 | 3000 | 3000 | 7000 | 7000 | 5000 | 5000 | 6000 | 6000 | 221122222222222222222222 | |
| | 1221 | 221 | 421 | 421 | 112 | 112 | 212 | 212 | 512 | 512 | 712 | 812 | 812 | 912 | 912 | 012 | 012 | 312 | 312 | 712 | 712 | 512 | 512 | 612 | 612 | 121121121121121121121121 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | 2 | 2 | | 2 | | | | | | | 2 | | 2 | | | | | | | | | 1 | 2 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Coagulative | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | 2 | 2 | | | | | | | | | 3 | 2 | |
| Adrenal Medulla | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | X | | | | X | | | | | X | | | | | | | X | |
| Pars Distalis, Hyperplasia | | | | | | | | | | 2 | | | | | 2 | | | | | 2 | | | 2 | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Pars Nervosa, Cyst | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Aloe vera whole leaf extract (native)

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Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|
| | 0524 | 0737 | 0737 | 0737 | 0737 | 0737 | 0576 | 0467 | 0673 | 0773 | 0443 | 0577 | 0677 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0777 | | | 0676 | 0766 | 0776 |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |

Follicular Cell, Hyperplasia

1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 | | 2 | | 3 | 2 | | 2 | | | 2 | 2 | | | 4 | 3 | 1 | 3 | 2 | 2 | 2 | 4 | 2 | | 1 |
| Duct, Ectasia | | | | | | | | | 2 | 3 | | | | | | | 2 | | | | | | | | 2 |
| Duct, Hyperplasia | | | | | | 2 | | | | | | 2 | | | | | 2 | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | 3 | 2 | 3 | 4 | 1 | 3 | | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 4 | 4 | 3 | 3 | 2 |
| Cyst | | | | | X | | | | | | X | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | 2 | | | | | | | | 2 | 2 | | | | | 2 | | | 2 | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Bilateral, Horn, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | 3 | | | 2 | 1 | | | | | 2 | 2 | | | | | | | | | | | | | 2 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 |
| Mucocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20116 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

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First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| | | 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 | 0 | | |
| FISCHER 344 RATS-NCTR RATS
FEMALE | ALOEWHOLLEAF 1.5 | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 6 | 7 | 4 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | | 6 |
| ANIMAL ID | | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 7 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 6 | 3 | 1 | 2 | 3 | 3 | 3 | 9 | 6 | 6 | |
| | | 4 | 7 | 7 | 7 | 0 | 7 | 6 | 6 | 3 | 7 | 2 | 3 | 7 | 7 | 7 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 7 | 2 | 9 | 2 | 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 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 8 | |
| | | 2 | 2 | 4 | 4 | 1 | 1 | 2 | 2 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 3 | 3 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 1 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Hyperplasia
 Proliferation
 Myeloid Cell, Hyperplasia

4

Lymph Node
 Mediastinal, Hyperplasia, Lymphoid
 Medulla, Pancreatic, Sinus, Dilatation
 Pancreatic, Degeneration, Cystic
 Pancreatic, Hyperplasia, Lymphoid

+
 2 3 3
 3

Lymph Node, Mandibular
 Degeneration, Cystic
 Hyperplasia, Lymphoid
 Infiltration Cellular, Plasma Cell
 Medulla, Sinus, Dilatation

+
 2 2 2
 3 2

Lymph Node, Mesenteric
 Amyloid Deposition
 Atrophy, Lymphocyte
 Degeneration, Cystic
 Fibrosis
 Hyperplasia, Lymphoid
 Medulla, Sinus, Dilatation

+
 3 3 4 4 4 4 4 4 2 4 4 4 4 3 4 2 3 4 4 3 3
 3 3 4 3 3

Spleen
 Atrophy
 Hematopoietic Cell Proliferation
 Hyperplasia, Focal
 Infarct

+
 2 X X X

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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7
7 | 0
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7 |

Pigmentation

2 3 3 2

Thymus
Atrophy
Cyst

+ + + + M + + + + + + + + + + + + M + + + + +
 3 3 3 2 2 2 2 3 2 2 3 3 2 3 1 3 3 3 2 3

INTEGUMENTARY SYSTEM

Mammary Gland
Galactocele
Lactation
Alveolus, Hyperplasia

+ + + + M +
 X X X
 2 1 2 2 1 3 1 3 2 2 3 3 2 4
 2 2 2 4 1 1 3 2 1 3 3 2

Skin
Epidermis, Hyperplasia
Epidermis, Necrosis

+
 3
 2

MUSCULOSKELETAL SYSTEM

Bone, Femur
Osteopetrosis

+
 3 4 4

Skeletal Muscle

NERVOUS SYSTEM

Brain, Brain Stem
Hypothalamus, Compression

+
 3 2 2 2

Brain, Cerebellum

+ +

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0524 | 0737 | 0737 | 0737 | 0737 | 0737 | 0576 | 0466 | 0673 | 0773 | 0443 | 0577 | 0677 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | | |
| | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granuloma | | | 1 | | | | | | | | | 2 | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | | | 1 | | | | | 1 | 2 | | | | 1 | | | | | 2 | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Retina, Degeneration | | | | 1 | | | | | | | 2 | | | | | | | | | | | 4 | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | 1 | | 1 | 1 | | | | 1 | 1 | | 2 | | | 2 | | | | 2 | | | | | | 1 |
| Zymbal's Gland | | | | | + | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|------------------------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-------------------|
| | 054 | 073 | 073 | 073 | 072 | 073 | 073 | 076 | 076 | 073 | 072 | 073 | 074 | 074 | 073 | 077 | 077 | 076 | 077 | 077 | 077 | 076 | 077 | 076 | | |
| ALOEWHOLLEAF 1.5 | 000 | 000 | 000 | 000 | 002 | 002 | 002 | 004 | 004 | 004 | 005 | 005 | 005 | 005 | 006 | 006 | 007 | 007 | 007 | 007 | 005 | 006 | 006 | 007 | 007 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | 2 | 2 | 1 | | 2 | 2 | | 2 | 1 | 1 | 1 | 2 | 2 | | 1 | 1 | | 3 | 1 | 3 | | 3 | 2 | |
| Nephropathy | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | 1 | 1 | 4 | | 2 | 2 | 2 | 2 | 2 | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0737 | 0737 | 0737 | 0484 | 0665 | 0462 | 0670 | 0666 | 0474 | 0777 | 0777 | 0777 | 0777 | 0478 | 0777 | 0469 | 0339 | 0279 | 0737 | 0588 | | 0688 |
| ANIMAL ID | 00872 | 00881 | 00882 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Large, Ascending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | 2 | | | | | | | | | | 2 | | | | | | 2 2.0 | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | 4 | | | 3 | | | | 2 3.5 | |
| Mucosa, Hyperplasia | 2 | 2 | 4 | | 2 | 1 | 2 | 2 | 2 | | 4 | 2 | 2 | 4 | 2 | 3 | 4 | 2 | 2 | 3 | 3 | 4 | 2 | 39 2.6 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Dilatation | | | X | X | X | X | X | X | X | | | | | | | X | X | | X | | X | X | 25 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | 1 | | 4 | 2 2.5 | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | 2 2.5 | |
| Mucosa, Hyperplasia | 1 | | 2 | | 1 | 2 | | | | | 1 | 1 | | 2 | 3 | | | 2 | | | 3 | | 27 2.2 | |
| Intestine Large, Colon | | | | + | | | | | | | | | | | | | | | | | | | 1 | |
| Intestine Large, Descending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Mucosa, Hyperplasia | | | 1 | | | 2 | 1 | 2 | 2 | | 1 | | 2 | | | | 2 | | 1 | 1 | | | 27 1.5 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 47 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | | 5 1.6 | |
| Intestine Large, Transverse Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Mucosa, Hyperplasia | 1 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 2 | | 2 | 2 | 2 | 42 2.1 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010

Time Report Requested: 14:39:01

First Dose M/F: 04/17/05 / 04/17/05

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0737 | 0737 | 0737 | 0744 | 0746 | 0746 | 0767 | 0766 | 0744 | 0777 | 0777 | 0777 | 0777 | 0777 | 0744 | 0766 | 0733 | 0722 | 0777 | 0755 | | 0766 | 0777 |
| ANIMAL ID | 00872 | 00888 | 00888 | 00111 | 00111 | 00112 | 00112 | 00114 | 00114 | 00119 | 00119 | 00100 | 00112 | 00112 | 00117 | 00122 | 00122 | 00122 | 00122 | 00122 | 00122 | 00122 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.5 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | 44 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 6 2.5 |
| Intestine Small, Jejunum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | 43 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Basophilic Focus, Multiple | | | | | X | | | X | | X | X | | X | | | | | | | | | | 13 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Granuloma | | | | | | | 1 | | | | | 1 | 2 | | 3 | | | | 2 | 1 | | 1 | 15 1.7 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 3 1.7 |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | 2 | 2 | | | | | | | | | 1 | 5 1.8 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Caudate Lobe, Developmental Malformation | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Caudate Lobe, Infarct | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Centrilobular, Necrosis | | | | | | | | | | | | | 1 | | | | | | | | | | 2 2.0 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Left Lateral Lobe, Infarct | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Median Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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TDMS No. 20116 - 03
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|--------|
| | 0737 | 0737 | 0737 | 0484 | 0665 | 0462 | 0670 | 0666 | 0474 | 0777 | 0777 | 0777 | 0777 | 0478 | 0669 | 0339 | 0279 | 0773 | 0588 | 0687 | | 0730 | |
| ANIMAL ID | 00872 | 00881 | 00882 | 00111 | 00112 | 00112 | 00112 | 00114 | 00112 | 00112 | 00113 | 00113 | 00115 | 00115 | 00115 | 00115 | 00115 | 00116 | 00116 | 00118 | 00119 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Acinar Cell, Atrophy | 2 | | | 2 | | 3 | | 1 | 2 | 2 | | | | 2 | | | | | 1 | | | 17 2.0 | |
| Proximal Colon | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | M | + | M | M | + | + | + | 39 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | 3 | | 2 | | | | | | 2 | | | | | | | | | | 2 | | | 8 2.3 | |
| Ulcer | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Mucosa, Hyperplasia | 3 | 3 | 4 | | 2 | 2 | 1 | 3 | 2 | | 3 | 3 | 3 | 2 | | 3 | | | 2 | 4 | 3 | 2 | 32 2.5 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Edema | | | | | | | | | | | | | | | 3 | | | | | | | 1 3.0 | |
| Hyperplasia | | | | | 2 | 2 | | 2 | | | | | 2 | | | | | | | | 2 | 9 2.3 | |
| Inflammation | | | | | | | 4 | 3 | | | | | | | | | | | | | | 3 3.3 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mucosa, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | 3 2.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Cardiomyopathy | | | 1 | 1 | 2 | | | 2 | 2 | 1 | 1 | 2 | 2 | | 2 | | | 1 | | 2 | 2 | 33 1.7 | |
| Atrium, Thrombus | | | | | | | | | | | | | | | | | | | | | | 1 | |

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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 07 | 07 | 07 | 04 | 06 | 04 | 06 | 07 | 06 | 04 | 07 | 07 | 07 | 07 | 04 | 06 | 03 | 02 | 07 | 05 | | 06 |
| ANIMAL ID | 00872 | 00881 | 00882 | 00111 | 00112 | 00112 | 00114 | 00112 | 00114 | 00112 | 00113 | 00113 | 00115 | 00115 | 00115 | 00115 | 00115 | 00116 | 00116 | 00118 | 00118 | 00119 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Angiectasis | 2 | | 2 | | 2 | 2 | | 2 | | | 3 | 2 | 3 | | 2 | | | | 2 | 3 | | 2 | 19 2.1 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Focal | | | 1 | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Necrosis, Coagulative | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | | | | | | | | 2 | | 2 | | | | | | | | | | | | | 6 2.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Angiectasis | | | | | 2 | | 3 | 2 | | | | | 2 | 2 | | | | | | | | | 6 2.2 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 47 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 47 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | 3 | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Distalis, Cyst | | | | | | | X | | X | | | | | | | | | | | | | | 6 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Nervosa, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 47 |
| C-cell, Hyperplasia | | | | 2 | | | 2 | | | | | | | | | | | | | 1 | | | 3 1.7 |

* .. 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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|----------------|
| | 07 | 07 | 07 | 04 | 06 | 04 | 06 | 07 | 06 | 04 | 07 | 07 | 07 | 07 | 07 | 04 | 06 | 03 | 02 | 07 | | 05 | 06 | 07 |
| ANIMAL ID | 00872 | 00888 | 00888 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | |
| Hyperplasia Proliferation | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0
1 4.0 |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Medulla, Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pancreatic, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | 47 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | 47 |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Atrophy, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 43 3.5 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 3 |

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

TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0737 | 0737 | 0737 | 0484 | 0664 | 0464 | 0667 | 0766 | 0464 | 0777 | 0777 | 0777 | 0777 | 0466 | 0363 | 0222 | 0777 | 0556 | 0668 | 0770 | |
| ANIMAL ID | 00872 | 00881 | 00882 | 00111 | 00111 | 00112 | 00112 | 00112 | 00114 | 00112 | 00113 | 00113 | 00115 | 00115 | 00115 | 00115 | 00115 | 00116 | 00116 | 00118 | 00119 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|----|-----|
| Pigmentation | 3 | | | | | | | | | | 2 | | | | | | | | | | 6 | 2.5 | | | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | A | + | 44 | |
| Cyst | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 42 | 2.3 |
| | | | | | | | | | | | | | | | | | | | X | | | | | 1 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Mammary Gland Galactoceles | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Lactation | 2 | 3 | | | | 1 | | | | | 2 | 1 | 1 | | | | | | | 3 | 2 | 2 | 23 | 2.1 | |
| Alveolus, Hyperplasia | 3 | 1 | | | | | | | | | 2 | 1 | 2 | 2 | | | 3 | | | 2 | 2 | 2 | 22 | 2.1 | |
| Skin Epidermis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | 3.0 |
| Epidermis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone, Femur Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | + | | + | 2 | 5 | 3.2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain, Brain Stem Hypothalamus, Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 8 | 2.3 |

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 + .. Tissue examined microscopically
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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. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0737 | 0737 | 0737 | 0484 | 0665 | 0482 | 0650 | 0766 | 0644 | 0777 | 0777 | 0777 | 0777 | 0481 | 0635 | 0399 | 0299 | 0737 | 0588 | 0687 | |
| ANIMAL ID | 00872 | 00881 | 00882 | 00111 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Granuloma | | | | | 1 | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | 1 | 1 | | 1 | | | 1 | | | | | | | | | 2 | | | | | 11 | 1.4 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Osteopetrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | 46 | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Infiltration Cellular, Lymphocyte | 1 | 1 | | | | 1 | | 1 | 2 | | | 1 | | | | | | 1 | | 1 | | | | 17 | 1.2 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20116 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 01/15/2010
 Time Report Requested: 14:39:01
 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------|-----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|--------|
| | 07 | 07 | 07 | 04 | 06 | 04 | 06 | 07 | 06 | 04 | 07 | 07 | 07 | 07 | 07 | 04 | 06 | 03 | 02 | 07 | | 05 | 06 |
| ANIMAL ID | ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mineralization | 2 | 3 | 2 | 2 | 2 | | 3 | | 2 | 2 | 2 | 2 | | 1 | 2 | 2 | 2 | 2 | | 2 | | | 35 1.9 |
| Nephropathy | 2 | 1 | 1 | | 2 | | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | | | 40 1.7 |
| Cortex, Cyst | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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