

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	0012	0011	0012	0022	0029	0031	0031	0041	0041	0044	0044	0044	0044	0066	0066	0077	0077	0077	0077	0099	0099	0099	0099	0099	0012

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

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	04 08 06	06 07 07	06 04 01	07 03 07	06 05 05	05 06 04	06 06 00	06 06 03	07 01 09	07 03 07	07 03 07	06 03 04	05 03 01	07 03 07	07 03 07	06 07 03	06 03 04	06 02 07	07 03 07	06 02 08	06 08 03	07 03 07	07 03 07			
	00 01 01 01	00 01 01 02	00 01 01 01	00 01 02 02	00 00 02 09	00 00 01 01	00 00 03 03	00 00 04 04	00 00 04 04	00 00 04 04	00 00 04 04	00 00 06 06	00 00 07 07	00 00 07 07	00 00 08 08	00 00 09 09	00 00 08 08	00 00 09 09	00 00 08 08	00 00 09 09	00 00 09 09	00 00 09 09	00 00 09 09	00 00 09 09	01 02 02 01	

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

Stomach, Glandular	+																						
Edema	4																						
Erosion																							
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 2 2 2 2 2 2 2																						
Atrium, Thrombus	X X X X X																						

ENDOCRINE SYSTEM

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

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	0486	0674	0671	0737	0655	0664	0660	0663	0771	0773	0777	0665	0577	0777	0777	0667	0666	0667	0773	0662			0668	0663
	001112	001122	001221	001229	001229	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
Inflammation																								2
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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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	2																									
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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	04	06	06	07	06	05	06	06	06	06	07	07	07	06	05	07	07	07	06	06	06	07	06	06		
	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	0	0
	1	1	1	1	2	2	3	3	4	4	4	4	4	4	6	6	7	7	7	7	9	9	9	9	9	
	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	1	2	1	2	1	2	1	2	1	2	1	2	1	2	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																									
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 2	0 0 4 1	0 0 4 2	0 0 4 1	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 8 2	0 0 8 1	0 0 9 2	0 0 9 1	0 0 9 2	0 0 9 1		

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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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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	4	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	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			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	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	4	6	6	7	7	7	7	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		males (cont...)

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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 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																				ANIMAL ID	* TOTALS						
	0737	0737	0737	0662	0660	0734	0663	0554	0737	0664	0558	0736	0666	0550	0737	0667	0553	0733	0668	0551			0738	0665	0553	0731	0666	0557
	0127	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	0111
	27	28	28	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41

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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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
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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 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
	0737	0737	0737	0662	0660	0673	0664	0550	0577	0666	0445	0656	0666	0777	0773	0663	0673	0663	0666	0557	
ANIMAL ID	01272	01188	01188	01141	01141	01141	01144	01144	01144	01144	01144	01144	01144	01144	01144	01144	01144	01144	01144	01144	01144

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	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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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Aloe vera whole leaf extract (native)
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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 6	0 4 9 4	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 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 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 1	0 1 4 7 8	0 1 7 8 4	0 1 7 8 1	0 1 7 5 2	0 1 7 5 1	0 1 7 9 1	0 1 7 9 2	0 1 8 0 1	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
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 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 9 6	0 5 6 2	0 6 6 5	0 7 3 3	0 7 3 8	0 6 3 2	0 6 6 3	0 6 6 1	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 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 7 2	0 1 4 7 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 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	3.0
Congestion																						3	2.3
Hematopoietic Cell Proliferation				2							2											1	2.0
Hyperplasia, Lymphoid																						1	3.0
Hyperplasia, Focal																						1	3.0
Infarct			X							X							X				X	6	2.7
Pigmentation					3		2															3	2.7
Thrombus																						1	4.0
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	38	2.4

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

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 Aloe vera whole leaf extract (native)
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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 9 6	0 5 6 2	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 6 3	0 5 8 1		0 7 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 4	0 1 4 4 2	0 1 4 4 2	0 1 4 5 2	0 1 4 5 2	0 1 4 6 1	0 1 4 6 2	0 1 4 6 1	0 1 4 7 2	0 1 4 8 1	0 1 4 8 1	0 1 4 5 1	0 1 4 7 2	0 1 4 7 1	0 1 4 7 2	0 1 4 9 1	0 1 7 9 2	0 1 8 0 2	0 1 0 0 2

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		

* .. 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 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	0 7 3 2
	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 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 7 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 1 3 1.0
 Alveolus, Inflammation 2 2 2.5
 Nose + 48
 Fungus 1
 Inflammation 2 4 1.8
 Goblet Cell, Hyperplasia 1 3.0
 Trachea + 48

SPECIAL SENSES SYSTEM

Eye + + + + + + + + + + + + + + + + A + + + + 47
 Cataract X 2
 Retina, Degeneration 3 4 5 2.8
 Sclera, Metaplasia, Osseous 2 2.5
 Harderian Gland + 48
 Atrophy 1 1 7 2.0
 Infiltration Cellular, Lymphocyte 1 7 1.3

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 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue 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 CONTROL WATER	DAY ON TEST																				ANIMAL ID				
	0 7	0 7	0 7	0 6	0 6	0 7	0 6	0 5	0 7	0 6	0 4	0 5	0 6	0 6	0 7	0 7	0 6	0 7	0 6	0 6			0 5	0 7	
	3	3	3	1	4	3	6	5	3	7	9	6	2	5	3	3	3	3	7	1	8	4	3		
	7	7	7	2	0	3	4	0	7	6	4	8	0	0	7	7	8	2	3	3	1	3	2		
	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	4	4	4	4	4	4	4	4	4	4	4	4	7	7	7	7	7	7	8	8		
	7	8	8	1	1	4	4	5	5	6	6	7	7	8	8	4	4	5	5	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		
																								* 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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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																				males (cont...)		
		0596	0737	0737	0650	0725	0672	0743	0778	0733	0622	0666	0666	0727	0474	0667	0777	0469	0669	0733	0733		0733	0733
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
ALOEWHOLLEAF 0.5	ANIMAL ID	00061	00067	00071	00072	00075	00076	00077	00078	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095

ALIMENTARY SYSTEM

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

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 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 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	0666	0727	0447	0603	0700	0730	0469	0699	0733	0733	0733	0733			0733
Mucosa, Hyperplasia	3	2				3							2														
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
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																											

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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 ALOEWHOLLEAF 0.5	DAY ON TEST																								ANIMAL ID	males (cont...)	
	0596	0737	0737	0650	0725	0672	0744	0773	0838	0733	0732	0666	0665	0722	0470	0630	0703	0700	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		
Oral Mucosa																									+		
Pancreas Acinar Cell, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
		1		2					2				1		2						2	2		4	2		
Proximal Colon Inflammation Ulcer Mucosa, Hyperplasia	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+			
				2		2								1													
			2	2		3		2			2		1	2	4			3	2		2	2	2		1	1	
Salivary Glands Acinar Cell, Atrophy Sublingual Gland, Infiltration Cellular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Stomach, Forestomach Edema Hyperplasia Inflammation Perforation Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
														3						4							
	4				3			2			3			2													
	4				3						3																
Stomach, Glandular Diverticulum Edema Inflammation Ulcer Mucosa, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
														3													
	3				2	3				2					3						3						

CARDIOVASCULAR SYSTEM

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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																								ANIMAL ID	males (cont...)
	0596	0737	0737	0650	0725	0672	0743	0774	0777	0666	0666	0767	0446	0673	0774	0446	0667	0774	0669	0933	0733	0733	0733	0733		
	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007		
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cardiomyopathy	2	2	2	2	2			2	2	2	2	2		2	2	1	3	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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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	males (cont...)			
FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 0.5	ANIMAL ID	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		
		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	
		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	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	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	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	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			

Pars Intermedia, Cyst

X

Thyroid Gland
 Ultimobranchial Cyst
 C-cell, Hyperplasia
 Follicular Cell, Hyperplasia

+
 2 2 2 1
 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis
 Atrophy
 Exfoliated Germ Cell
 Hypospermia

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

Penis

+

Preputial Gland
 Atrophy
 Inflammation
 Duct, Ectasia
 Duct, Hyperplasia

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

Prostate
 Atrophy
 Inflammation

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

Seminal Vesicle

+ +

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 + .. 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 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
| | 0596 | 0737 | 0737 | 0650 | 0725 | 0672 | 0744 | 0773 | 0838 | 0733 | 0722 | 0666 | 0665 | 0722 | 0474 | 0664 | 0773 | 0774 | 0466 | 0677 | 0773 | 0773 | 0733 | 0733 | | | 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 | 0001 | |
| | 0006 | 0067 | 0077 | 0007 | 0025 | 0056 | 0021 | 0033 | 0088 | 0033 | 0027 | 0066 | 0059 | 0044 | 0064 | 0077 | 0077 | 0044 | 0066 | 0099 | 0099 | 0033 | 0033 | 0033 | 0033 | 0077 | |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|
| FISCHER 344 RATS-NCTR RATS MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | 0596 | 0737 | 0737 | 0650 | 0725 | 0672 | 0483 | 0773 | 0777 | 0666 | 0666 | 0747 | 0466 | 0737 | 0774 | 0669 | 0799 | 0673 | 0773 | 0773 | 0733 | 0733 | 0733 | 0737 | ANIMAL ID | males (cont...) |
| | ANIMAL ID | 00061 | 00062 | 00067 | 00068 | 00071 | 00072 | 00076 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | | |

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

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mammary Gland
Galactocele
Lactation
Alveolus, Hyperplasia | M | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

* .. 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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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 | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|--|
| 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 | |
| | | 9 | 3 | 3 | 5 | 2 | 1 | 3 | 8 | 3 | 3 | 2 | 6 | 5 | 2 | 7 | 0 | 3 | 0 | 9 | 9 | 3 | 3 | 3 | 3 | |
| ALOEWOLLEAF 0.5 | | 6 | 7 | 7 | 0 | 5 | 2 | 7 | 0 | 7 | 7 | 7 | 6 | 9 | 4 | 4 | 6 | 7 | 2 | 7 | 0 | 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 | |
| | 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 | 2 | 2 | 2 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | | |
| | | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 8 | 8 | 4 | 4 | 5 | 5 | 9 | 9 | 1 | 1 | 2 | 2 | 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 | 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
 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
ALOEWOLLEAF 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 | ANIMAL ID | males
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | | 5 | 7 | 7 | 6 | 7 | 6 | 7 | 4 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | | |
| | | 9 | 3 | 3 | 5 | 2 | 1 | 3 | 8 | 3 | 3 | 2 | 6 | 5 | 2 | 7 | 0 | 3 | 0 | 9 | 9 | 3 | 3 | 3 | 3 | | |
| | | 6 | 7 | 7 | 0 | 5 | 2 | 7 | 0 | 7 | 7 | 7 | 6 | 9 | 4 | 4 | 6 | 7 | 2 | 7 | 0 | 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 | 2 | 2 | 2 | 2 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | | | |
| | | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 6 | 8 | 8 | 4 | 4 | 5 | 5 | 9 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | | | | | | | | | | | 2 | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Cyst | | | | | | | | | | | | | | | | | | | | | X | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| Retina, Degeneration | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infiltration Cellular, Lymphocyte | 1 | | | | | | | 1 | | | | | | | 1 | | | | | | | 1 | | 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 |

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

TDMS No. 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 | 0480 | 0787 | 0737 | 0627 | 0666 | 0666 | 0744 | 0464 | 0767 | 0770 | 0499 | 0699 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | | | |
| Renal Tubule, Necrosis | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder
Dilatation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | | |

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+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing 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)
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 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
3
6
3 | 0
1
5
6
4 | 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 | | | | | |

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

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 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 | | | | | | | | | | | | | | | | | | | | * 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 | 01 |
| Mucosa, Hyperplasia | 2 | | | | | | 3 | | | | | | 2 | | | | | 2 | 3 | | 1 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 1 | | | | | | 2 | | | | | | | | | | | | | 2 | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Degeneration, Cystic | | | | | 1 | | 2 | | | | | | | 1 | 2 | | | | 2 | | | | 6 |
| Granuloma | | | | | | | | | | | | 1 | | | | | | | | | | | 5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | 2 | | | | 1 |
| Necrosis, Coagulative | | | | | | | | | | | | | 2 | | | | | | | | | | 2 |
| Vacuolization Cytoplasmic | 3 | | | | | | 2 | | 2 | | 2 | | 2 | 2 | | | | | 2 | | | | 14 |
| Artery, Media, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bile Duct, Hyperplasia | | | | 2 | 1 | | | | | 2 | 2 | | | 1 | | 2 | 2 | | | | | 2 | 2 |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Periductular, Fibrosis | | | | | | | | | | | 2 | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | + | | | | + | | + | | | | | + | + | + | | 10 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | 4 | | | | 1 |
| Fat, Necrosis | | | | | | | 3 | | | | | | | 2 | | | | | 3 | | 2 | | 6 |

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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

| 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 | 0542 | 0777 | 0777 | 0563 | 0668 | 0669 | 0777 | 0777 | 0777 | 0558 | 0552 | 0552 | 0554 | | 0660 | 0551 |
| 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 |
| 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
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 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 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

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

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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 |
| ANIMAL ID | 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 |
| | 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 | 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 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 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 | | | | | | | | | | 4 | 3 | | | | | 4 | | | | 3 | 4 | | 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 | 0669 | 0613 | 0542 | 0737 | 0737 | 0533 | 0668 | 0669 | 0737 | 0737 | 0737 | 0558 | 0552 | 0552 | 0554 | | 0690 | 0571 |
| 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

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 0.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|-------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | | 6 | 5 |
| ANIMAL ID | 3 | 1 | 2 | 3 | 9 | 6 | 1 | 4 | 3 | 3 | 6 | 5 | 9 | 3 | 3 | 3 | 5 | 9 | 9 | 4 | 9 | 7 | 9 |
| | 7 | 7 | 4 | 2 | 2 | 9 | 3 | 2 | 7 | 7 | 3 | 8 | 9 | 7 | 7 | 7 | 8 | 2 | 2 | 4 | 0 | 1 | 8 |
| | 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 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder
Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| | | X | | | | | | | | | X | | | | | X | | | | | | | 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 | 001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005 | |
| | 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 | 009 | |
| | 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 | 011 | |
| | 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 | 012 | |

ALIMENTARY SYSTEM

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

* .. 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
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 Aloe vera whole leaf extract (native)
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 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 | | | 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 | 0 | 001 | |
| Left Lateral Lobe, Developmental Malformation | 6 | 3 | 3 | 3 | 3 | 2 | 8 | 3 | 3 | 2 | 3 | 7 | 8 | 8 | 0 | 9 | 3 | 3 | 6 | 6 | 7 | 2 | 6 | 6 | 7 | 5 | 002 | |
| Mesentery | 7 | 4 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 4 | 6 | 0 | 7 | 7 | 2 | 5 | 7 | 1 | 7 | 7 | 7 | 9 | 003 | |
| Accessory Spleen Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 004 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 005 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | 006 | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 007 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | 008 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | 009 | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 010 | |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | | | | 011 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 012 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 013 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | 014 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | 015 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | 016 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 017 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 018 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | 019 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | 020 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 021 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 022 | |
| Mucosa, Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | 023 | |

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 + .. Tissue examined microscopically
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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
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 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 | 067 | 066 | 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 | 000 | 000 | 001 |
| ANIMAL ID | | 151 | 152 | 156 | 152 | 151 | 158 | 153 | 153 | 153 | 154 | 154 | 155 | 155 | 155 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 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...) |
|--|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
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| FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALOEWHOLLEAF 1.0 | ANIMAL ID | 0
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1 | |

Angiectasis
 Pars Distalis, Cyst
 Pars Distalis, Hyperplasia

4 1
 X
 2

Thyroid Gland
 C-cell, Hyperplasia
 Follicular Cell, Hyperplasia

+
 3 2 1
 2

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Epididymis
 Atrophy
 Exfoliated Germ Cell
 Granuloma Sperm
 Hypospermia

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

Prostate
 Inflammation

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

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3

HEMATOPOIETIC SYSTEM

Bone Marrow

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Atrophy

3

Hyperplasia

3

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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

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 | | | | | | | | | | | | | | | | | | | | | | | | 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 | | |
| | 6 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | |
| ANIMAL ID | 6 | 3 | 3 | 3 | 3 | 2 | 8 | 3 | 3 | 2 | 3 | 7 | 8 | 8 | 0 | 9 | 3 | 3 | 6 | 6 | 7 | 2 | 9 | 3 | |
| ANIMAL ID | 2 | 4 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 4 | 6 | 0 | 7 | 7 | 2 | 5 | 7 | 1 | 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 | |
| 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 | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | |
| ANIMAL ID | 5 | 5 | 6 | 6 | 8 | 8 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 2 | 2 | 5 | 5 | 6 | 6 | 3 | 3 | 4 | 4 | |
| 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 | |
| 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 4 3 4 4 4 4 4 4 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Lymphoid | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 2 3 2 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelial Cell, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Galactocele | X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lactation | 2 1 2 2 1 2 1 2 2 2 3 3 3 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Hyperplasia | 3 2 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
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 | 001 | |
| | 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 | 001 | |
| | 5 | 5 | 6 | 6 | 8 | 8 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 2 | 2 | 5 | 5 | 6 | 6 | 6 | 3 | 3 | 4 | 4 | 6 | 001 | |
| | 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 | 001 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 3 | 2 | | | | |
| Fat, Subcutaneous Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Tail, Hyperkeratosis, Multifocal | | | | | | | | | | | | | | | | 3 | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cranium, Periosteum, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

NERVOUS SYSTEM

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

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

* .. 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

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) |
|---------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| DAY ON TEST | | 6 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | 7 | 5 | 5 | |
| FISCHER 344 RATS-NCTR RATS MALE | | 6 | 3 | 3 | 3 | 3 | 2 | 8 | 3 | 3 | 2 | 3 | 7 | 8 | 8 | 0 | 9 | 3 | 3 | 3 | 6 | 6 | 7 | 2 | 9 | 3 | 1 | 9 | |
| ALOEWHOLLEAF 1.0 | | 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 | 9 | 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 |
| | | 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 | 9 | 0 | 1 |
| | | 5 | 5 | 6 | 6 | 8 | 8 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 2 | 2 | 5 | 5 | 6 | 6 | 6 | 3 | 3 | 3 | 4 | 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 | 2 | 1 | 1 |
| 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 | | 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 | | |
| Urinary Bladder Dilatation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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 | 0671 | 0579 | 0770 | 0777 | 0777 | 0373 | 0777 | 0777 | 0675 | 0777 | 0777 | 0666 | | 0773 | 0776 | 0663 | 0774 |
| ANIMAL ID | 01062 | 01133 | 01134 | 01144 | 01155 | 01166 | 01177 | 01188 | 01199 | 01200 | 01211 | 01222 | 01233 | 01244 | 01255 | 01266 | 01277 | 01288 | 01299 | 01300 | 01311 | 01322 | 01333 | 01344 | 01355 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 6 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 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 | 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 | 0666 | 0777 | 0667 | 0777 |
| ANIMAL ID | 01062 | 01133 | 01133 | 01144 | 01144 | 01155 | 01155 | 01177 | 01177 | 01199 | 01199 | 01200 | 01200 | 01211 | 01211 | 01222 | 01222 | 01233 | 01233 | 01244 | 01244 | 01255 | 01255 | 01266 | 01266 | 01277 | 01277 | |
| 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 | 0737 | 0777 | 0334 | 0737 | 0777 | 0665 | 0737 | 0665 | 0737 | | 0665 | 0737 |
| ANIMAL ID | 01062 | 01132 | 01134 | 01144 | 01151 | 01152 | 01157 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | 01163 | |
| 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 | | 3 | | | 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
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 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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0631 | 0650 | 0571 | 0770 | 0777 | 0777 | 0334 | 0733 | 0773 | 0777 | 0665 | 0773 | 0666 | | 0773 | 0663 | 0664 | 0669 |
| ANIMAL ID | ALOEWOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0100 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 |
| | 0062 | 0013 | 0034 | 0044 | 0055 | 0055 | 0071 | 0077 | 0099 | 0099 | 0001 | 0002 | 0004 | 0006 | 0009 | 0011 | 0012 | 0018 | 0028 | 0038 | 0048 | 0058 | 0068 | 0078 | 0088 |

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 | 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
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 1-4 .. Lesion qualified as:
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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

| 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 | 0779 |
| 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
 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 | 0667 | 0519 | 0730 | 0777 | 0777 | 0334 | 0737 | 0777 | 0667 | 0777 | 0667 | 0737 | | 0667 | 0634 | 0669 |
| ANIMAL ID | 01062 | 01132 | 01134 | 01144 | 01154 | 01164 | 01173 | 01183 | 01193 | 01202 | 01212 | 01222 | 01232 | 01242 | 01252 | 01262 | 01272 | 01282 | 01292 | 01302 | 01312 | 01322 | 01332 | 01342 |
| Decreased Secretory Fluid | | | | | | | | | | | | | | | | | | | | | | | | 9 3.3 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | 3 | | 2 2.5 |
| Seminiferous Tubule, Atrophy | | | 4 | 4 | | | 2 | 2 | 3 | 2 | 3 | | | | 2 | | | | | | | 3 | | 17 3.0 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 |
| Lymph Node | + | M | + | | | + | | | | M | + | | | | + | | + | | | | | | 19 | |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 2.5 |
| Mediastinal, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Medulla, Pancreatic, Sinus, Dilatation | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 2.5 |
| Pancreatic, Degeneration, Cystic | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | 2 | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | 2 | | | | | | | | 5 2.2 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | 2 | | | | | | | 3 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 | 0778 | 0637 | 0651 | 0579 | 0730 | 0737 | 0737 | 0334 | 0737 | 0737 | 0675 | 0737 | 0672 | 0670 | | 0672 | 0679 | | | | | | | |
| ANIMAL ID | 01062 | 01131 | 01132 | 01141 | 01142 | 01145 | 01147 | 01148 | 01149 | 01151 | 01152 | 01153 | 01154 | 01155 | 01156 | 01157 | 01158 | 01159 | 01160 | 01161 | 01162 | 01163 | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2 | 2 | 3 | 10 | 2.3 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | | | | |
| Degeneration, Cystic | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | | 3 | 4 | 4 | 2 | 4 | 3 | 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 | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | | | | | | | |
| Atrophy | 3 | 2 | | 2 | 3 | 2 | 3 | 2 | | | 2 | 2 | 2 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|---|--|
| | 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 | 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 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 6 | 3 | 4 | |
| | 0 | 8 | 9 | 7 | 7 | 7 | 8 | 7 | 1 | 9 | 0 | 7 | 7 | 1 | 7 | 7 | 5 | 7 | 2 | 0 | 2 | 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 | |
| | 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 | |
| | 6 | 3 | 3 | 4 | 4 | 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 | 2 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
| 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 | | |
| 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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--------|
| | 0730 | 0688 | 0659 | 0737 | 0777 | 0777 | 0777 | 0665 | 0571 | 0730 | 0737 | 0777 | 0373 | 0737 | 0777 | 0665 | 0737 | 0777 | 0665 | 0737 | | 0665 | 0737 |
| ANIMAL ID | ALOEWHOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | |
| | 0106 | 0113 | 0113 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | |
| 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 | | | | | | | | | | | | | | | | | | | | | 1 | | 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
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 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 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 | males
(cont...) | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| FISCHER 344 RATS-NCTR RATS MALE | 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 |
| ALOEWHOLLEAF 1.5 | 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 |
| 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 | 4 | 4 | 6 | 6 | 8 | 8 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 9 | 9 | 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 | | |

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 | | | |
| 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

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 | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 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 | |
| Mucosa, Hyperplasia | | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | | | 4 | 1 | 1 | 2 | 1 | | 2 | 2 | | | 2 | 2 | 2 | |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 2 | | | 3 | 2 | | | | | 3 | | | | | | | |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 2 | | | | | | 4 | | | | | | | | | | |
| Intestine Small, Jejunum
Inflammation
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | X | |
| | 2 | 2 | | | | | | | | | | | | | | | | 2 | | 1 | | | | | |
| | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 1 | | | | | | 2 | | | | | | | | | | |
| | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1 | 2 | | | | 1 | | | 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

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

Hepatocyte, Periportal, Hypertrophy
 Left Lateral Lobe, Developmental Malformation
 Median Lobe, Developmental Malformation
 Right Lateral Lobe, Developmental Malformation

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|--|--|--|
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | | | | |
| Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Oral Mucosa

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|--|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| Proximal Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 4 | 1 | | 4 | 4 | 3 | 4 | 4 | 2 | 3 | | | 2 | 4 | 4 | 1 | | 2 | 3 | 2 | | | | | | | | | | | | | |

Salivary Glands

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| 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 | | FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | 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 | 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 | 6 | 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 | | | |
| 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 | 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 | 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 | 1 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 8 | 8 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 9 | 9 | 0 | 0 | 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 | 2 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | 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
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 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 | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | |
|--|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|
| | | 0642 | 0667 | 0693 | 0733 | 0773 | 0777 | 0777 | 0777 | 0777 | 0666 | 0666 | 0777 | 0666 | 0666 | 0777 | 0777 | 0444 | 0666 | 0666 | 0555 | | 0333 | 0111 | 0666 | 0777 | 0666 | 0777 |
| FISCHER 344 RATS-NCTR RATS MALE ALOEWHOLLEAF 1.5 | | 2 | 6 | 7 | 3 | 7 | 0 | 7 | 0 | 1 | 7 | 2 | 5 | 9 | 7 | 7 | 2 | 1 | 7 | 4 | 7 | | 4 | 8 | 7 | 0 | 7 | 7 |
| 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 | 0025 | 0026 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Hyperplasia, Focal

1

Pituitary Gland
Angiectasis
Hemorrhage
Pars Distalis, Cyst
Pars Distalis, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 1 | | | | | | 3 | 1 | | | | | | | | | | | 3 | | | | |
| | | | | 2 | 2 | | | | | | 2 | | | | | | | | | | | | | | | | |

Thyroid Gland
C-cell, Hyperplasia
Follicular Cell, Hyperplasia

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

GENERAL BODY SYSTEM

Tissue NOS

+

GENITAL SYSTEM

Epididymis
Exfoliated Germ Cell
Hypospermia
Inflammation

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 3 | 1 | 2 | | 3 | 3 | 2 | 3 | 3 | 1 | 2 | | | 2 | 3 | 1 | | | | | | | | 2 | | | 1 | 2 |
| | | | 4 | 4 | 4 | 2 | 3 | 3 | | 4 | 3 | 4 | | 4 | | | | 4 | | | | | | | | 4 | 2 |
| | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |

Preputial Gland
Atrophy
Inflammation
Duct, Ectasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| 1 | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 3 | | | | | | | 2 | 2 | 2 |
| | | | 4 | | 2 | | | | | | | | | 2 | | | | | | | | | | | | 2 | |

Prostate
Inflammation

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Seminal Vesicle Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Decreased Secretory Fluid | | | | 4 | | | | | 2 | | 4 | 3 | | | | | 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 | 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 | | 0
6
4
2 | 0
6
4
6 | 0
6
9
7 | 0
7
3
7 | 0
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3
7 | 0
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7 | 0
3
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7 | 0
6
9
1 | 0
6
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7 | 0
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7 | 0
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7 | 0
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7 | 0
4
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2 | 0
6
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7
4 | 0
5
3
8 | 0
3
1
7 | 0
6
6
0 | 0
7
3
7 | 0
6
7
0 | 0
6
3
7 | | |
| ALOEWHOLLEAF 1.5 | | 0
0
0
1
1 | 0
0
0
1
2 | 0
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3
1 | 0
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2 | 0
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2 | 0
1
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9
1 | 0
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9
2 | 0
1
1
0
1 | 0
1
1
0
2 | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |

Fibrosis 2
Hemorrhage 4
Hyperplasia, Lymphoid Inflammation 2 3

Spleen +
Hematopoietic Cell Proliferation
Infarct
Pigmentation 2 3 1
Thrombus X

Thymus + + M + + + + + + + + + + + M M + + + + + +
Atrophy 3 2 2 2 3 2 2 2 2 3 2 2 2 2 2 M M 2 2 1
Hemorrhage 1

INTEGUMENTARY SYSTEM

Mammary Gland + + + + + M M + + + M + + + M + M + M + + + + +
Galactocele 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 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 | 0
6
4
2 | 0
6
4
6 | 0
6
9
7 | 0
7
3
7 | 0
7
3
7 | 0
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7 | 0
7
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3
7 | 0
6
8
0 | 0
6
9
1 | 0
7
3
7 | 0
6
6
5 | 0
6
8
9 | 0
7
3
7 | 0
4
8
2 | 0
6
3
1 | 0
6
7
4 | 0
5
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8 | 0
3
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7 | 0
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0 | 0
6
6
7 | 0
7
3
4 | 0
6
6
1 | 0
6
7
2 | 0
6
7
1 | 0
6
3
2 | 0
7
2
7 | males
(cont...) | | |
| FISCHER 344 RATS-NCTR RATS MALE | ANIMAL ID | 0
0
0
1
1 | 0
0
0
1
2 | 0
0
0
3
1 | 0
0
2
3
2 | 0
0
2
4
1 | 0
0
2
4
2 | 0
0
4
6
1 | 0
0
4
6
2 | 0
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1 | 0
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2 | 0
1
0
9
1 | 0
1
0
9
2 | 0
1
0
9
1 | 0
1
0
9
2 | | | | | |
| ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Bone, Femur

Skeletal Muscle

NERVOUS SYSTEM

Brain, Brain Stem

Hypothalamus, Compression

Brain, Cerebellum

Brain, Cerebrum

Hemorrhage

Hydrocephalus

Peripheral Nerve

Spinal Cord

Hemorrhage

RESPIRATORY SYSTEM

Lung

Granuloma

Hemorrhage

Metaplasia, Osseous

Alveolar Epithelium, Hyperplasia

Alveolus, Infiltration Cellular, Histiocyte

Alveolus, 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| FISCHER 344 RATS-NCTR RATS MALE | 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 |
| ALOEWHOLLEAF 1.5 | 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 | 4 | 4 | 6 | 6 | 8 | 8 | 7 | 7 | 4 | 4 | 5 | 5 | 6 | 6 | 9 | 9 | 0 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | 2 | | | 1 | | | | | 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 | 2 |
| Cortex, Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Dilatation | | | | | | | X | | | | | | | | | | | | | | | | | 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
 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
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3 | 0
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8 | 0
5
4 | 0
7
3 | 0
4
7 | 0
4
9 | 0
6
2 | 0
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6 | 0
6
7 | 0
5
4 | 0
4
5 | 0
7
2 | 0
7
3 | | 0
7
1 | 0
7
3 |
| ANIMAL ID | 0
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1 | 0
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1 |

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

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
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2 | |
| 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 | | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 2 3.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Intestine Small, Jejunum
Inflammation
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 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 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 | |
| | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
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| | 1 | | 1 | 1 | | | | | | 2 | | | | | | | 2 | | | | | | | 3 | | 10 1.7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 3 1.3 | |
| | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |
| | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 2 1.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 | |
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| | | | | | | | | | | | | | | | | | | | | 2 | | | | | | 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

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|
| | 050 | 055 | 073 | 077 | 068 | 077 | 077 | 059 | 066 | 055 | 066 | 077 | 044 | 044 | 066 | 066 | 066 | 055 | 044 | 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 |
| Hepatocyte, Periportal, Hypertrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

| FISCHER 344 RATS-NCTR RATS
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
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| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Stomach, Glandular Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Mucosa, Hyperplasia | 2 | | | | | | | | 2 | | | | 3 | 2 | | | | | | | | | | 11 2.4 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Cardiomyopathy | 1 | 2 | 2 | | 3 | 2 | 2 | 2 | 3 | 2 | | | 2 | 2 | 2 | | | 2 | | 2 | 2 | 2 | | 32 2.0 |
| Atrium, Thrombus | | | | X | | | | | | | | | X | | | | | | | | | | | 4 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Angiectasis | | | | | | | | | | | | | | | | 2 | | | | | | 2 | | 2 2.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | 1 | | 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 | | | | | | | | | | | | | | | | | 2 | | | | | | | 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
 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 | 044 | 066 | 066 | 066 | 054 | 045 | 072 | 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 | 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
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 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
MALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
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| Seminal Vesicle Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 6 | 2.2 |
| Decreased Secretory Fluid | | | | 2 | 2 | | | 3 | 3 | | | | | 4 | | 3 | | | | | | | | | | 9 | 3.2 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 4 | 2.0 | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | 2 | | | | | 8 | 2.9 | |
| Seminiferous Tubule, Atrophy | | | | 3 | | | | 1 | | | | | | 3 | | | | | | 3 | | 4 | 4 | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 2 | 3.0 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.8 | |
| Hyperplasia | | | | | | | | | | | | | | | | | 2 | | 3 | | 3 | | | | 1 | 2.0 | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | + | | | | + | | | | + | | + | + | + | | + | | + | | 17 | 1 | 4.0 | | |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 | 2.0 | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Pancreatic, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Renal, Degeneration, Cystic | | | | 2 | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 5 | 2.6 | |
| Degeneration, Cystic | | | | 2 | | | | | 3 | | | | | | | | | | | | | | | | 11 | 2.2 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | 3 | 2 | | | 3 | 2 | 2 | | | | | | | | 2 | | 1 | 3.0 | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 41 | 3.6 | |
| 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 | 069 | 073 | 073 | 050 | 068 | 055 | 074 | 044 | 044 | 066 | 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 | 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 | 9 | 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 | | | | | | | | 4 | 2.8 |
| 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
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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 | 074 | 066 | 066 | 066 | 054 | 045 | 072 | 073 | 077 | | 077 |
| ANIMAL ID | 011 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 013 | 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 | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Phthisis Bulbi | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Infiltration Cellular, Lymphocyte | 1 | | | | | | | | | | | | | | | | | | | | | | 8 1.5 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Nephropathy | 2 | 1 | 3 | 4 | 1 | 2 | 3 | 3 | 3 | | 3 | 1 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 1 | 4 | 2 | 3 | 45 2.3 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 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

*** 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
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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0737 | 0737 | 0737 | 0761 | 0770 | 0772 | 0786 | 0788 | 0792 | 0777 | 0777 | 0774 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0747 | 0776 | females
(cont...) |
| | ANIMAL ID | 00091 | 00090 | 00011 | 00011 | 00033 | 00033 | 00044 | 00044 | 00066 | 00066 | 00066 | 00066 | 00077 | 00077 | 00088 | 00088 | 00088 | 00088 | 00099 | 00099 | 00011 | |
| | | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 |
| Liver Cyst Multilocular | | | | | | | | X | | | | | | | | | | | | | | |
| Liver Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | |
| Liver Granuloma | 2 | 2 | | | | 2 | | | | | | 1 | 2 | | 1 | | 4 | | 2 | 2 | 2 | |
| Liver Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver Hepatodiaphragmatic Nodule | | | | | | 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

Date Report Requested: 01/15/2010
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0737 | 0737 | 0737 | 0737 | 0691 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 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 | |
| | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | X X |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | | + | + |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|

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 Aloe vera whole leaf extract (native)
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 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 | ANIMAL ID | females
(cont...) | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|
| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | | 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 | 4 | |
| | | 7 | 7 | 7 | 1 | 0 | 7 | 2 | 6 | 8 | 2 | 7 | 7 | 4 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 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 | 1 | 9 | 1 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |
| Angiectasis | | 3 | | | | 3 | | 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 | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
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Duct, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary Cyst | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypoplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Mucocyte, Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Horn, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Vagina Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

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

* .. 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 CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|------|------|
| | 0737 | 0737 | 0737 | 0737 | 0693 | 0737 | 0737 | 0488 | 0548 | 0662 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | | 0488 | 0737 | 0693 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | 2 | 2 | | | | 2 | | | | | | | | | | | | | 2 |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Spleen | | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | 3 | | 3 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | 3 | | | 2 | | | | | | 2 | | | | | | | | | 2 |
| Thrombus | | | 3 | | | | X | X | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 3 | 2 | 2 | | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Hemorrhage | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lactation | 2 | | | | 2 | 1 | | | | | 2 | 3 | | 2 | 2 | 2 | | | 1 | | 2 | 2 | 2 | | | | 2 | 1 | 2 |
| Alveolus, Hyperplasia | 2 | | 3 | 1 | 2 | 3 | | | | | 3 | 2 | | | | | | | 2 | | 3 | 3 | 2 | 1 | 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

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
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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 | 000000000000000000000000 | | |
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| | 9 | 9 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 4 | 1 | 1 | 3 | 3 | 4 | 4 | 7 | 7 | 0 | 0 | 9 | 9 | 0 | 9900022441133447788899000 | 1 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 121212121212121212121212 | 1 | |

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
 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

| | | 0 | 0 | 0 | 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 | 7 | 4 | 7 | 6 | 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 | 8 | 8 | |
| | | 7 | 7 | 7 | 1 | 0 | 7 | 2 | 6 | 8 | 2 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 4 | |
| FISCHER 344 RATS-NCTR RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTROL WATER | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Retina, Degeneration | | | | 2 | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Nephropathy | | 3 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 4 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 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 | 0737 | 0737 | 0737 | 0471 | 0677 | 0725 | 0737 | 0737 | 0737 | 0737 | 0737 | 0031 | 0737 | 0737 | 0674 | 0737 | | 0650 | 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
 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 | 0737 | 0737 | 0737 | 0471 | 0677 | 0725 | 0737 | 0737 | 0737 | 0737 | 0737 | 0031 | 0737 | 0737 | 0674 | 0737 | | 0650 | 0737 | 0535 | 0737 | |
| 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 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Vacuolization Cytoplasmic | 1 | | | | | | | | | | | | | 2 | | | | | | | | | | | 6 | |
| Bile Duct, Hyperplasia | 1 | | 1 | | | | | 2 | | | | | 1 | | | | | | 2 | | 2 | | | | 9 | |
| Left Lateral Lobe, Developmental Malformation | | | | X | | | | X | | | | | | | | | | | | | | | | | 4 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | | 43 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | 35 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|
| | 0737 | 0688 | 0597 | 0737 | 0777 | 0777 | 0477 | 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 | 0737 | 0737 | 0737 | 0467 | 0677 | 0677 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0077 | 0737 | 0677 | 0737 | | 0677 | 0737 | 0537 | 0537 | 0737 |
| 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 | 009122 | |
| Duct, Hyperplasia | | | | | | | | | | | 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 | | | | |
| Cyst | | | | | | | | | | | | | | | | X | 2 | 2.3 | | | | | | | | |
| 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
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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
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| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|------|------|
| | 0737 | 0688 | 0599 | 0737 | 0777 | 0777 | 0777 | 0467 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0077 | 0777 | 0677 | 0777 | | | 0677 | 0777 | 0537 |
| | 0091 | 0092 | 0092 | 0091 | 0090 | 0090 | 0092 | 0092 | 0092 | 0094 | 0094 | 0094 | 0094 | 0097 | 0097 | 0097 | 0097 | 0097 | 0097 | 0097 | 0097 | 0097 | 0097 | 0097 | 0097 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2.5 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.5 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 7 | 1.9 |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Lymph Node, Mesenteric | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | 46 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.0 | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 4 | 2.8 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 7 | 2.3 |
| Thrombus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | | 46 | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 43 | 2.2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|---|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | 47 | | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Lactation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 27 | 1.9 |
| Alveolus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 27 | 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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 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 | 0737 | 0777 | 0777 | 0467 | 0677 | 0727 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | 0737 | |
| ANIMAL ID | 0091 | 0092 | 0092 | 0091 | 0090 | 0090 | 0092 | 0092 | 0092 | 0094 | 0094 | 0094 | 0094 | 0097 | 0097 | 0097 | 0096 | 0096 | 0097 | 0097 | 0095 | | |
| 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

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----|-----|
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2 | 0
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2 | 0
1
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6
2 | * 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 | 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
 X .. Lesion present
 I .. Insufficient tissue
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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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

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

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 | |
| Intestine Large, Cecum
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | 2 | | | | | 2 | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | 1 | 3 | | | | | | | | | 1 | | | | | |
| Intestine Large, Descending Colon
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 |
| Intestine Small, Duodenum
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
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 Lab: NCTR

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

* .. 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

| | | 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...) |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | | |
| FISCHER 344 RATS-NCTR RATS
FEMALE | | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 1 | 3 | 3 | 7 | 3 | 3 | | |
| ALOEWOLLEAF 0.5 | | 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...) |
| 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 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ulcer | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| 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 | 1 | 1 | 1 | 2 | 2 | | | 2 | 1 | 2 | 2 | 1 | 2 | |

ENDOCRINE SYSTEM

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

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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 | females
(cont...) |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS-NCTR RATS
FEMALE | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | | |
| ALOEWOLLEAF 0.5 | | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 7 | 3 | 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 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 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 | | |
| | | 5 | 5 | 8 | 8 | 7 | 8 | 8 | 7 | 7 | 9 | 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 | 1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | X | | | | | | | | | | | X | | | | | | | | | X | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | 1 | 1 | | | | | | | | 1 | | | | | | | | 1 | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | 1 | | | 3 | 3 | | 3 | | | 2 | | 1 | 3 | | | 2 | 2 | | | 3 | 2 | |
| Duct, Ectasia | | | | | 3 | | 3 | | 3 | | 3 | 3 | | | 3 | | | 2 | | | 2 | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | 2 | 2 | 1 | 3 | 4 | 1 | 2 | 3 | 4 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 2 |
| Cyst | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|----------------------|----------------------|
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | |
| | 0
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0 | 0
7
3
7 | 0
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7 | 0
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7 | 0
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7 | 0
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7 | 0
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7 | 0
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7 | 0
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7 | 0
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4
7 | 0
7
3
7 | 0
7
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7 | 0
5
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7 | 0
6
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9 | 0
7
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7 | 0
7
3
7 | 0
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7 | 0
7
3
7 | 0
7
3
1 | 0
7
3
7 | 0
6
7
7 | | 0
7
3
7 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | females
(cont...) | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Cervix, Mucocyte, Metaplasia | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Cervix, Muscularis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | 2 | | | | 3 | | | 1 | 2 | 2 | | 2 | 2 | 1 | | 2 |
| Horn, Dilatation | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | females
(cont...) |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | 3 | | | | | 2 | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | + | | | | | | | | | | | + | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Mediastinal, Polyarteritis | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Mediastinal, Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | females
(cont...) |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | 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
 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 | females
(cont...) | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| FISCHER 344 RATS-NCTR RATS FEMALE
ALOEWHOLLEAF 0.5 | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | | |
| | ANIMAL ID | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 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 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 3 | 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 | 1 | 2 | 2 | 3 | |
| | | 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 | |

MUSCULOSKELETAL SYSTEM

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

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
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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 ALOEWHOLLEAF 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|---|
| | 07020 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | | | |
| ANIMAL ID | 00051 | 00052 | 00058 | 00071 | 00072 | 00077 | 00078 | 00081 | 00082 | 00087 | 00091 | 00092 | 00099 | 00101 | 00102 | 00109 | 00112 | 00116 | 00121 | 00122 | 00128 | 00131 | 00132 | 00138 | 00141 | 00142 | |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | 2 | 1 | 1 | |
| Alveolus, Inflammation | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | 2 | | | | | | | | | | | | 2 | | | | | | | | 2 | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

females (cont...)

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

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

* .. 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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 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 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|
| | 070 | 073 | 077 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | 073 | |
| FISCHER 344 RATS-NCTR RATS FEMALE | 20 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | |
| ALOEWHOLLEAF 0.5 | 000 | 000 | 000 | 000 | 002 | 002 | 002 | 002 | 003 | 003 | 003 | 003 | 004 | 004 | 005 | 005 | 005 | 005 | 007 | 007 | 008 | 008 | 008 | 008 | |
| 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
 I .. Insufficient tissue
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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
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 First Dose M/F: 04/17/05 / 04/17/05
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
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7 | 0
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7 | 0
5
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7 | 0
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1 | 0
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1 | |
| FISCHER 344 RATS-NCTR RATS FEMALE | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ALOEWHOLLEAF 0.5 | | | | | | | | | | | | | | | | | | | | | | | | |
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1 | 0
1
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2 | 0
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1 | 0
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2 | 0
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1 | 0
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2 | 0
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2 | 0
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2 | 0
1
8
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4 | 0
1
8
6
2 | 0
1
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6
1 | 0
1
8
8
2 | 0
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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
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| | | | 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 1.0 |
| Mucosa, Hyperplasia | | | 2 | 1 | | 2 | 2 | 1 | | | 2 | 2 | 2 | 1 | 3 | 1 | | 1 | 2 | 1 | | 1 | 1 | | 40 1.7 |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 2.0 |
| Intestine Small, Ileum
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 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
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 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | 0100 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| 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
 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 | 0699 | 0523 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0688 | 0555 | 0493 | 0733 | 0733 | 0527 | 0447 | | 0733 | 0731 |
| ANIMAL ID | 01032 | 01044 | 01047 | 01071 | 01078 | 01081 | 01082 | 01083 | 01084 | 01085 | 01086 | 01087 | 01088 | 01089 | 01090 | 01091 | 01092 | 01093 | 01094 | 01095 | 01096 | 01097 | 01098 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|----|-----|
| Proximal Colon Inflammation | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | 45 | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Mucosa, Hyperplasia | | | 2 | | | 2 | 3 | | 2 | 3 | 3 | 1 | 1 | 3 | 2 | | | | | | | | | | | 1 | 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 2.1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Stomach, Forestomach Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Hyperplasia | | 3 | | | | | | | | | 3 | | | 2 | | | | | | | | | 3 | | | 2 | 3.0 |
| | | 3 | | | | | | | | | | | | | | | | | | | | | 2 | | | 7 | 2.6 |
| Stomach, Glandular Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Mucosa, Hyperplasia | | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Mucosa, Necrosis, Focal | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| | | 2 | 2 | | 2 | | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | | 1 | 2 | 1 | | 2 | 2 | 2 | | | 40 | 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 | 2.0 |
| 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
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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
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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 | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0647 | 0733 | 0735 | 0736 | 0738 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | | 0739 |
| ANIMAL ID | 01032 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | 01142 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hyperplasia, Focal | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | 1 | | | 2 1.5 |
| Cervix, Mucocyte, Metaplasia | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Cervix, Muscularis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 |
| Endometrium, Hyperplasia, Cystic | | 2 | | | | | 2 | 2 | | 2 | 3 | 2 | 1 | | | | | | | | | 16 1.9 |
| Horn, Dilatation | | | | | | | | | | | | | | | | | | | | 2 | | 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
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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
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 | |
| ANIMAL ID | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 |
| | 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 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 |
| | 3 | 4 | 4 | 7 | 7 | 8 | 8 | 0 | 0 | 4 | 4 | 5 | 5 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 8 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | 16 | 3.2 |
| Hyperplasia, Lymphoid Medulla, Sinus, Dilatation | | | | 2 | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| | | | 3 | | | | | | | | 2 | | | | | | | | | | | | 3 | 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | 3 | | | | | | | | 1 | 3.0 |
| Hyperplasia, Focal | | | | | | | | | | | 3 | | | | | | | 3 | | | | | 5 | 2.8 |
| Infarct | | | | | X | | | | | | | | | | | | | | | | | | 2 | |
| Pigmentation | | | 3 | | | | | | | 2 | | | | | | | | | | 2 | 3 | | 6 | 2.3 |
| Red Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | 3 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 45 | | |
| Atrophy | 2 | 3 | 2 | 2 | 3 | | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | | 2 | 2 | 2 | 2 | 2 | 3 | | 44 | 2.2 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Lactation | | | 2 | | | 3 | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | | | | | 1 | | 4 | | 28 | 2.1 |
| Alveolus, Hyperplasia | | | 2 | | 2 | 3 | | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | | | 2 | 3 | | 1 | 3 | | 38 | 2.2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|---|-----|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |
| Epidermis, Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | 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 FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0647 | 0733 | 0733 | 0735 | 0699 | 0522 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0684 | 0556 | 0496 | 0733 | 0733 | 0572 | 0477 | | 0733 | 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 |
| 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 | 0711 | 0882 | 0882 | 0002 | 0002 | 0412 | 0412 | 0552 | 0552 | 0662 | 0662 | 0662 | 0662 | 0662 | 0882 | 0882 | 0882 | 0882 | 0882 |

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
 + .. 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 | 0735 | 0736 | 0738 | 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
 + .. 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

| 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 |
|--|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | | 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 |
| | | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 9 | 7 | 9 | 2 | 6 | 2 | 7 | 7 | 7 | 7 | 3 | |
| ALOEWOLLEAF 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 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 0 |
| | | 3 | 3 | 4 | 4 | 7 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | 6 | 1 | 1 | 7 | 7 | 8 | 8 | 5 | 5 | 6 | 6 | 5 | |
| | | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 4 | 1 | 2 | 2 | 1 | | 2 | 2 | 2 | | 2 | 2 | | 3 | 3 | 2 | 3 | 3 | 1 | | 2 | 2 | 4 | 3 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Dilatation | | | | X | | | | | | | X | | | | | | X | X | X | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | 1 | 3 | | | | 2 | | | | | | | | | | | | 2 | | | 2 | 1 | 3 | |
| Intestine Large, Colon | | | | + | | | | | | | | | + | | | | | | | | | | | | |
| Inflammation | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Intestine Large, Descending Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mucosa, Hyperplasia | | | | 2 | | | | | | | 2 | | 2 | | | 1 | | 2 | | | 1 | 1 | 1 | 1 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Transverse Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

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 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|--|--|
| | 0
7
3
7 | 0
7
3
7 | 0
5
0
6 | 0
6
8
7 | 0
7
3
5 | 0
5
3
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
2
3 | 0
7
3
7 | 0
6
1
9 | 0
5
7
2 | 0
6
6
6 | 0
5
7
3 | 0
7
3
7 | 0
6
5
7 | 0
7
3
7 | 0
6
7
7 | 0
7
3
7 | | | | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | 1 | 1 | | | 1 | 2 | 2 | | | | 2 | 3 | | | | | 3 | 1 | 2 | | | 1 | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | | 3 | | | | | | | | | 2 | | | | | | | | | | 3 | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | | | |
| Caudate Lobe, Developmental Malformation | X | | | | | | | | X | | | | | | | | | | | | | | | | 2 | | | |
| 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
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1-4 .. Lesion qualified as:
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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

| FISCHER 344 RATS-NCTR RATS FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|----------------------|-------------------|--|--|-------|--|--|--|-----|--|--|--|---|--|--|--|---------|--|--|--|-----------|--|--|--|
| | 0737 | 0737 | 0506 | 0677 | 0757 | 0777 | 0777 | 0777 | 0777 | 0457 | 0574 | 0747 | 0777 | 0777 | 0777 | 0676 | 0575 | 0676 | 0575 | 0777 | 0777 | 0676 | 0777 | 0777 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | + | | | | 1
0
1
3
1 | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | 4 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 1 1 | | | | | | | | 2 | | | | 1 2 2 3 | | | | | | | |
| Proximal Colon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | M | | | | + | | | | + | | | | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | | | | 2 3 2 2 | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 2 3 2 | | | | 1 3 | | | | 1 | | | | 2 3 2 3 | | | | 3 3 4 3 2 | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 2 | | | | 3 | | | | 3 2 | | | | 2 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | 3 | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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
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 | 0619 | 0572 | 0666 | 0573 | 0733 | | | 0733 | 0653 | 0733 | 0773 | 0773 |
| | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 | 001131 |

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

GENERAL BODY SYSTEM

Tissue NOS
Fat, Necrosis

GENITAL SYSTEM

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

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TDMS No. 20116 - 03
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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 1.0 | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|------------------|------------------|------------------|
| | 0
7
3
7 | 0
7
3
7 | 0
5
0
6 | 0
6
8
7 | 0
7
3
7 | 0
5
5
5 | 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
7 | 0
7
2
9 | 0
7
3
7 | 0
6
1
9 | 0
5
7
2 | 0
6
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6 | 0
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7
2 | 0
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7
3
7 | 0
6
5
7 | | 0
7
3
7 | 0
6
7
7 | 0
7
3
3 | 0
7
3
3 |
| Bone Marrow Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Lymph Node Degeneration, Cystic | | | | + | | | + | | | | | | | | | + | | | + | | | | | | | + | |
| Mediastinal, Hemorrhage | | | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Lymph Node, Mandibular Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Plasma Cell | | | | | | | | | 2 | | | | | | | 2 | | | 2 | | 2 | | 2 | | | 2 | |
| Lymph Node, Mesenteric Amyloid Deposition | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic Hemorrhage | 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 |
| Hyperplasia, Lymphoid Medulla, Sinus, Dilatation | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | |
| Spleen Atrophy | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal Pigmentation | | | | | | | | | | | 3 | | | | 3 | | | 2 | | | | 3 | | | | | |
| Thymus Atrophy | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| | 2 | 2 | | | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | | 4 | 3 | 2 | | 2 | 3 | 2 | 2 | 2 | 2 |

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

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

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
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 I .. Insufficient tissue
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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|-----------------------------------|------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----|
| | | 07 | 07 | 05 | 06 | 07 | 05 | 07 | 07 | 07 | 04 | 05 | 07 | 04 | 07 | 07 | 07 | 06 | 05 | 06 | 05 | 07 | 07 | 06 | 07 | | 07 |
| FISCHER 344 RATS-NCTR RATS FEMALE | ALOEWHOLLEAF 1.0 | 37 | 37 | 06 | 87 | 37 | 55 | 37 | 37 | 37 | 15 | 96 | 37 | 77 | 29 | 37 | 37 | 19 | 72 | 66 | 57 | 67 | 33 | 37 | 57 | | 37 |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 33 | 33 | 33 | 33 | 55 | 55 | 66 | 66 | 66 | 66 | 88 | 88 | 55 | 55 | 66 | 66 | 11 |

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

Nose +
 Inflammation 1 2 2
 Osteopetrosis
 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

Zymbal's Gland

URINARY SYSTEM

Kidney +
 Infarct 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 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 | 0775 | 0777 | 0777 | 0777 | 0415 | 0573 | 0747 | 0747 | 0729 | 0733 | 0733 | 0617 | 0572 | 0666 | 0573 | 0733 | 0733 | 0657 | 0733 | | |
| Mineralization | 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 | | 3 | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

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

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 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0737 | 0737 | 0737 | 0737 | 0750 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0746 | 0774 | 0766 | 0766 | 0776 | 0766 | 0776 | 0755 | 0755 | | 0777 | 0777 |
| ANIMAL ID | 01052 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 | 0117 |
| | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 | 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
 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 | 0750 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | |
| ANIMAL ID | 01052 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | 01171 | | |
| 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
 BLANK .. Not examined microscopically

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

| | | 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 | 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 | 9 | 6 | 6 | 2 | 2 | 2 | 9 | 0 | 3 | 3 | 3 | | |
| ALOEWOLLEAF 1.0 | | 7 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 6 | 7 | 8 | 9 | 9 | 5 | 3 | 2 | 6 | 7 | 7 | 6 | | |
| ANIMAL ID | | 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 | |
| | | 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 | * TOTALS |
| Mesentery | | + | | | | | | | | | | | + | + | + | | | + | + | | | | 10 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 | |
| Fat, Necrosis | | 2 | | | | | | | | | | | 2 | 2 | | | | | | 3 | | | 6 2.7 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Polyarteritis | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 | |
| Acinar Cell, Atrophy | | 2 | | 2 | | | | | 4 | | | 1 | | | | 1 | | 2 | | 1 | | 2 | 17 1.7 | |
| Proximal Colon | | + | + | + | + | + | + | + | + | + | M | + | A | + | A | + | + | + | + | + | + | + | 42 | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | | | 3 | | | | | | | | | 2 | 3 | | | 3 | 11 2.4 | |
| Ulcer | | | | | | | | | | | | | | | | | | 3 | | | | 2 | 2 2.5 | |
| Mucosa, Hyperplasia | | 2 | | 3 | 2 | 3 | 2 | 2 | 4 | 4 | 1 | | | 3 | | 2 | 2 | 4 | | | 3 | 3 | 33 2.5 | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Edema | | | | | | | 2 | | | | | | | | | | | | | | | | 2 2.5 | |
| Hyperplasia | | | | | | | 3 | | | | | | 3 | | 2 | | | | | | | 2 | 10 2.4 | |
| Inflammation | | | | | | | | | | | | | 4 | | | | | | | | | 2 | 4 3.3 | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 3 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
FEMALE
ALOEWHOLLEAF 1.0 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0737 | 0737 | 0737 | 0737 | 0530 | 0737 | 0737 | 0737 | 0737 | 0737 | 0436 | 0737 | 0666 | 0666 | 0729 | 0666 | 0729 | 0550 | 0550 | 0737 | | 0737 | 0565 |
| ANIMAL ID | 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 | 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
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 Aloe vera whole leaf extract (native)
 CAS Number: ALOEVLEAFEXT

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 Lab: NCTR

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

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-------|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | 2.0 |
| Inflammation | | 2 | | | 2 | | 3 | 4 | 2 | 1 | 4 | 1 | 2 | | | 3 | 2 | | 3 | 2 | 2 | 3 | 30 | 2.1 |
| Duct, Ectasia | | | | | 2 | | | | | | | | | 2 | 2 | | | | 3 | | | | 8 | 2.1 |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Atrophy | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | | | 4 | 3 | 4 | 4 | 3 | 3 | 2 | 1 | 42 | 2.6 |
| Cyst | | X | | | | X | | | | | | | | | | | | | | | | | 6 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Adventitia, Inflammation | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | 4 | | | | | | | | | | | 1 | 4.0 |
| Endometrium, Hyperplasia, Cystic | | | | | | 3 | 2 | 2 | | | | | | | | | | 2 | | | | | 8 | 2.0 |
| Horn, Dilatation | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mucocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 3.5 |

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
 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
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7 | 0
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7 | 0
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7 | 0
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6 | 0
7
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7 | 0
6
9
8 | 0
6
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9 | 0
7
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9 | 0
6
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5 | 0
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3 | 0
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9
2 | 0
5
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2 | 0
5
3
6 | | 0
7
3
7 | 0
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3
7 | 0
5
6
5 |
| ANIMAL ID | 0
1
0
5
2 | 0
1
0
7
1 | 0
1
0
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2 | 0
1
0
8
1 | 0
1
0
8
2 | 0
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6
1 | 0
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1
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2 | 0
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3
8
1 | 0
1
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8
2 | 0
1
4
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1 | 0
1
4
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2 | 0
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0 | 0
1
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9
1 | 0
1
5
9
2 | 0
1
5
9
1 | 0
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5
9
2 | 0
1
5
7
2 | 0
1
7
7
1 | 0
1
7
7
2 | 0
1
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2 | 0
1
7
8
1 | 0
1
7
8
2 | 0
1
8
9
1 | 0
1
8
9
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 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 | 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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0737 | 0737 | 0737 | 0737 | 0530 | 0737 | 0737 | 0737 | 0737 | 0737 | 0436 | 0737 | 0638 | 0639 | 0722 | 0622 | 0522 | 0536 | 0737 | 0737 | | 0565 | 0737 | 0565 |
| ANIMAL ID | ALOEWHOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 | 01052 |

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 | | | | | | | | | | | | | | | | | | | | | | | | 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
 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 | 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 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | 2 | 1 | | | | | | | | | | | | | | | 1 | | | 9 1.1 | |
| Alveolus, Inflammation | | | | | | | | | | | 1 | | | | | | | | | | | 2 1.5 | |
| Artery, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | 2 | 2 | | | | | | | | | | | 2 | | 2 | | | | | | 8 1.9 | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Canal, External Ear, Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Eye | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | 46 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Infiltration Cellular, Lymphocyte | | | | | 1 | | 2 | 1 | 2 | | | 1 | | 1 | | | | 2 | | 1 | 2 | 1 | 18 1.6 |
| Zymbal's Gland | | | | | + | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Infarct | | | | | | | | | | | | | | | 2 | | | | | | | 2 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

| 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 | 0777 | |
| FISCHER 344 RATS-NCTR RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | |
| ALOEWHOLLEAF 1.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | |
| Mineralization | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 40 2.1 |
| Nephropathy
Cortex, Inflammation, Chronic
Epithelium, Pelvis, Hyperplasia | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | | 2 | 2 | | 2 | 3 | 2 | | 40 1.8
1 3.0
1 3.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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
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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 | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) | | | |
|-----------------|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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9 | 0
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| ALOEWOLLEAF 1.5 | 0
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1 | 0
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2 | 0
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3 | 0
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3 | 0
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5 | 0
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5 | 0
0
7
7
6 | 0
0
7
7
6 | 0
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7 | 0
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7
8 |

ALIMENTARY SYSTEM

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

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

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...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| | 0
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| Mucosa, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 3 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | X X X X X | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | X X | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | 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
ALOEWOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
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| 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
 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 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------------|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS-NCTR RATS
FEMALE | ALOEWHOLLEAF 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 6 | 7 | 4 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 6 | 3 | 1 | 2 | 3 | 3 | 9 | 6 | |
| | | 4 | 7 | 7 | 7 | 0 | 7 | 6 | 6 | 3 | 7 | 2 | 3 | 7 | 7 | 7 | 7 | 9 | 7 | 0 | 3 | 7 | 7 | 2 | 2 | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | | 2 | 2 | 4 | 4 | 1 | 1 | 2 | 2 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 3 | 3 | 5 | 5 | 6 | 6 | 7 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

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
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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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
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 | 0776 | 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 |
| | 2002 | 2002 | 4004 | 1001 | 1001 | 2002 | 2002 | 2002 | 4004 | 4004 | 4004 | 4004 | 5005 | 5005 | 5005 | 5005 | 6006 | 6006 | 7007 | 7007 | 7007 | 7007 | 7007 | 6006 | 6006 |
| | 1221 | 2221 | 1221 | 4241 | 1112 | 1112 | 2121 | 2121 | 1112 | 2121 | 2121 | 5152 | 5152 | 7178 | 8182 | 9192 | 9192 | 0101 | 0101 | 3132 | 3132 | 5152 | 5152 | 6167 | 6167 |

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 | 3 |

HEMATOPOIETIC SYSTEM

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

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
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Pigmentation

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Thymus
Atrophy
Cyst

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INTEGUMENTARY SYSTEM

Mammary Gland
Galactoceles
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 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|------|
| | 0524 | 0737 | 0737 | 0737 | 0737 | 0737 | 0576 | 0466 | 0673 | 0773 | 0443 | 0577 | 0677 | 0777 | 0777 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | 0677 | 0777 | 0677 | | 0677 |
| ANIMAL ID | 00021 | 00022 | 00041 | 00042 | 00011 | 00012 | 00021 | 00022 | 00041 | 00042 | 00044 | 00045 | 00051 | 00052 | 00055 | 00056 | 00061 | 00062 | 00071 | 00072 | 00073 | 00075 | 00076 | 00081 | 00082 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| 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:
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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 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | | |
|--|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----|--------------------------|----|----|
| | | 05 | 07 | 07 | 07 | 07 | 07 | 05 | 04 | 06 | 07 | 04 | 05 | 07 | 06 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | | | 07 | 06 | 06 |
| FISCHER 344 RATS-NCTR RATS FEMALE | | 24 | 37 | 37 | 37 | 23 | 33 | 36 | 76 | 73 | 32 | 44 | 43 | 27 | 27 | 37 | 37 | 37 | 66 | 37 | 11 | 23 | 37 | 37 | 92 | 66 | | | | |
| ALOEWHOLLEAF 1.5 | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | | 00 | 00 | 00 | 00 | 22 | 22 | 22 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 66 | 66 | 77 | 77 | 77 | 55 | 66 | 77 | 66 | 77 | | | | |
| | | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 55 | 55 | 77 | 77 | 88 | 88 | 99 | 99 | 00 | 00 | 33 | 33 | 55 | 55 | 66 | 66 | 77 | 11 | 22 | females (cont...) | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Mineralization | | | | 2 | 2 | 1 | | 2 | 2 | | 2 | 1 | 1 | 2 | 2 | | 1 | 1 | | 3 | 1 | 3 | | 3 | 2 | | | | | |
| Nephropathy | | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | | 2 | 1 | 2 | 1 | 1 | 1 | 4 | | 2 | 2 | 2 | 2 | 2 | | | | | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| 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

| 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 |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| FISCHER 344 RATS-NCTR RATS FEMALE | | 7 | 7 | 7 | 4 | 6 | 4 | 6 | 7 | 6 | 4 | 7 | 7 | 7 | 7 | 4 | 6 | 3 | 2 | 7 | 5 | 6 | 7 |
| | | 3 | 3 | 3 | 8 | 9 | 8 | 5 | 2 | 5 | 5 | 3 | 3 | 3 | 1 | 3 | 5 | 9 | 1 | 9 | 3 | 8 | 8 |
| ALOEWOLLEAF 1.5 | | 7 | 7 | 7 | 4 | 5 | 2 | 0 | 6 | 6 | 4 | 7 | 7 | 7 | 8 | 7 | 9 | 9 | 9 | 7 | 3 | 8 | 3 |
| | | 7 | 7 | 7 | 4 | 5 | 2 | 0 | 6 | 6 | 4 | 7 | 7 | 7 | 8 | 7 | 9 | 9 | 9 | 7 | 3 | 8 | 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 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 8 | 8 | 8 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 8 | 8 | 8 |
| | | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 4 | 4 | 9 | 9 | 0 | 0 | 7 | 8 | 8 | 9 | 8 | 8 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

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 | 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 | | | | | | | | | 1 | | | | | | | | | | | | 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

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TDMS No. 20116 - 03
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| FISCHER 344 RATS-NCTR RATS
FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|
| | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | 0737 |
| ANIMAL ID | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | 00872 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.5 |
| Intestine Small, Ileum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A A | 44
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 | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | 1 |
| Granuloma | | | | | | 1 | | | | 1 | 2 | | 3 | | | | 2 | 1 | | 1 | | 15 1.7 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | X | | 2 |
| Infiltration Cellular, Lymphocyte | | | | 2 | | | | | | 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 | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Median Lobe, Developmental Malformation | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | 4 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |

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 + .. 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 | 0676 | 0464 | 0777 | 0777 | 0777 | 0777 | 0481 | 0633 | 0359 | 0639 | 0279 | 0583 | 0688 | | 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 |

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FEMALE
ALOEWHOLLEAF 1.5 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0737 | 0737 | 0737 | 0484 | 0645 | 0462 | 0670 | 0666 | 0444 | 0777 | 0777 | 0777 | 0777 | 0484 | 0666 | 0333 | 0222 | 0777 | 0563 | 0687 | |
| ANIMAL ID | 00872 | 00881 | 00882 | 00111 | 00112 | 00112 | 00114 | 00112 | 00114 | 00112 | 00113 | 00113 | 00115 | 00115 | 00115 | 00115 | 00115 | 00116 | 00116 | 00118 | 00119 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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 |
| ANIMAL ID | 00872 | 00888 | 00888 | 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 |
| 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 | 0665 | 0462 | 0670 | 0666 | 0474 | 0777 | 0777 | 0777 | 0777 | 0481 | 0693 | 0329 | 0279 | 0073 | 0568 | 0683 | |
| ANIMAL ID | 00872 | 00881 | 00888 | 00111 | 00111 | 00112 | 00112 | 00112 | 00114 | 00112 | 00113 | 00113 | 00115 | 00115 | 00115 | 00115 | 00115 | 00116 | 00116 | 00118 | 00118 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|----|-----|
| 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 Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 | |
| | | | | | 2 | | | | | | | | | | 3 | | | | | | | | 5 | 3.2 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | + | | | | + | | 2 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain, Brain Stem Hypothalamus, Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| | | | | | | | | | | | | 2 | | 2 | | | | | | | 3 | | 2 | 8 | 2.3 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0737 | 0737 | 0737 | 0484 | 0665 | 0462 | 0670 | 0666 | 0477 | 0773 | 0773 | 0773 | 0777 | 0777 | 0481 | 0693 | 0693 | 0299 | 0793 | 0588 | | 0683 |
| ALOEWHOLLEAF 1.5 | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| | 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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 X .. Lesion present
 I .. Insufficient tissue

M .. Missing 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

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS FEMALE ALOEWHOLLEAF 1.5 | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 077 | 077 | 077 | 048 | 066 | 044 | 066 | 077 | 066 | 044 | 077 | 077 | 077 | 077 | 077 | 044 | 066 | 033 | 022 | 077 | | 055 | 066 |
| ANIMAL ID | 00872 | 00882 | 00082 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 | 00112 |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | 2 | 3 | 2 | 2 | 2 | | 3 | | 2 | 2 | 2 | 2 | | | 1 | 2 | 2 | 2 | | | 2 | | |
| Nephropathy | 2 | 1 | 1 | | 2 | | 1 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | X | | | | | | | | | |
| Urinary Bladder Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | 48 |
| | | | | | | | | | | | | | | | | | | | | | | | 35 1.9 |
| | | | | | | | | | | | | | | | | | | | | | | | 40 1.7 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | 48 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 A .. Autolysis precludes evaluation
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