

TDMS No. 99020 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
CAS Number: 89-82-7

Date Report Requested: 05/21/2008
Time Report Requested: 09:15:32
First Dose M/F: 04/09/03 / 04/10/03
Lab: BAT

F1_R2

C Number: C99020
Lock Date: 01/06/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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

males (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	X	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Peyer's Patch, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clear Cell Focus	X	X						X	X		X	X						X	X			X		X	X
Eosinophilic Focus												X													
Fatty Change							2																		
Hepatodiaphragmatic Nodule			X					X	X								X								
Inflammation	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
Mixed Cell Focus	X		X									X	X												X

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	DAY ON TEST																									males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	6	7	6	7	7	7	7	7	7	4	7	7	7	7	0	7	7	7	7	7	7	
	2	2	2	2	5	2	9	2	2	2	2	2	2	1	2	2	2	0	2	2	2	2	2	2	2	
	7	8	8	7	3	8	2	7	8	7	8	7	8	2	8	8	8	1	9	8	8	3	7	8	7	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Bile Duct, Hyperplasia	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1		2			1	1	1		
Centrilobular, Hepatocyte, Degeneration																										2
Hepatocyte, Degeneration, Cystic																										
Portal, Fibrosis					1		1	1	1				1			1										
Mesentery																										
Necrosis																										
Pancreas																										
Acinus, Atrophy	1																									
Acinus, Atypia Cellular	1																									
Acinus, Hyperplasia	3				2																					
Duct, Cyst	1																									
Salivary Glands																										
Basophilic Focus																										
Hyperplasia																										
Stomach, Forestomach																										
Inflammation																										
Epithelium, Hyperplasia																										
Stomach, Glandular																										
Inflammation																										

CARDIOVASCULAR SYSTEM

Blood Vessel +

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

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	3	3	3	2	2	2	1	3	3	3	2	2	2	3	3	3	3		2	3	3	2	2	2	3		
Artery, Inflammation																												1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																												
Hyperplasia	2							1		2		1	1	1			1					2	2		2	2	2	
Hypertrophy								1								1		2				3	2	2	2			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	3							2		1	1			2			2					2	2		2	1		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Angiectasis																												3
Pars Distalis, Cyst																												2
Pars Distalis, Hyperplasia	1	3					2		2	3	2		2			3	1		1			2					2	
Pars Distalis, Pigmentation																												
Rathke's Cleft, Cyst																												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia	1	1		1		1	1		1		1	1	1		1	1	1	1		1		2						

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

Follicular Cell, Hyperplasia 1

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Epididymis Granuloma Sperm Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland Inflammation Duct, Ectasia	+	+	+	+	+	1	+	+	1	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+	+
Prostate Inflammation Epithelium, Hyperplasia	+	+	+	+	+	+	2	+	+	+	+	+	2	+	+	+	+	+	+	+	+	+	2	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes Cyst Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	4	+	+	+	+	+	+	3	+	+

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

HEMATOPOIETIC SYSTEM

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			1		4							2													
Lymph Node Hematopoietic Cell Proliferation																									
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric Degeneration, Cystic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
														2											
Spleen Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																						2			
Thymus Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																							3		

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

males
(cont...)

Inflammation, Chronic Active
 Hair Follicle, Cyst

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Lung +
 Congestion 3 +
 Hemorrhage 2 +
 Metaplasia, Squamous 1 +
 Alveolar Epithelium, Hyperplasia 3 2 1
 Alveolus, Inflammation, Histiocytic 2 2 1
 Serosa, Hyperplasia 2 +

Nose +
 Inflammation 2 3 2 2 2 1 2 3 2 1 1 2
 Goblet Cell, Hyperplasia 2 1
 Olfactory Epithelium, Degeneration
 Olfactory Epithelium, Metaplasia, Respiratory 2

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

Trachea Inflammation +

SPECIAL SENSES SYSTEM

Eye +

Harderian Gland Inflammation +

Epithelium, Hyperplasia 2 2 2

URINARY SYSTEM

Kidney Nephropathy +

Cortex, Mineralization 2 2 1 1 1 2 3 2 2 2 2 1 2 2 1 2 2 2 2 1 2 2 2

Pelvis, Dilatation

Renal Tubule, Pigmentation

Transitional Epithelium, Hyperplasia

Urinary Bladder Inflammation +

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 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parasite Metazoan																											1 1.0
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parasite Metazoan																											2
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Peyer's Patch, Hyperplasia																											1 2.0
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basophilic Focus	X	X	X	X	X	X	X	X					X	X	X			X		X	X		X	X		36	
Clear Cell Focus	X	X	X		X		X	X					X					X		X	X		X			22	
Eosinophilic Focus																										1	
Fatty Change																										1	2.0
Hepatodiaphragmatic Nodule			X									X														6	
Inflammation	1	1		1	1	1	1	1				2	1	1	1			1	1	1	1		1	1		41	1.0
Mixed Cell Focus				X		X														X				X		9	

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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	6	7	7	0	7	7		7	7	2	2	2	2	2	0	2	2	7	8	8	8	7	7	7	8	7	7	7	8	7	2	7	7	9	8	8	4	8	8	9
FISCHER 344 RATS MALE	0																																																									
0 MG/KG	0																																																									
ANIMAL ID	0																																																									
	2																																																									
	6																																																									
Bile Duct, Hyperplasia	1				1				1				1				1				1				2				1				29	1.1																								
Centrilobular, Hepatocyte, Degeneration													2						3										3	2.3																												
Hepatocyte, Degeneration, Cystic													1																1	1.0																												
Portal, Fibrosis	1				1																												8	1.0																								
Mesentery													+						+						+										9																							
Necrosis	2												3												3	3	7	2.9																														
Pancreas	+																								50																																	
Acinus, Atrophy	1		2																																				13	1.6																		
Acinus, Atypia Cellular																									1	1.0																																
Acinus, Hyperplasia					2				3				2				2				3								2				1				11	2.2																				
Duct, Cyst													1												1								4	1.0																								
Salivary Glands	+																								50																																	
Basophilic Focus																									1																																	
Hyperplasia																									1	2.0																																
Stomach, Forestomach	+																								50																																	
Inflammation	1																																				2	1.5																				
Epithelium, Hyperplasia	1		1												2		1				1		2												16	1.3																						
Stomach, Glandular	+																								50																																	
Inflammation																									1	1.0																																

CARDIOVASCULAR SYSTEM

Blood Vessel	+																								50	
--------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------	--

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

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	3	1	2	2	2	3	3	2	3	2	2	3	2	3		2	2	3				2	2	3		44 2.4
Artery, Inflammation																										1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Degeneration, Cystic																									1	1 1.0
Hyperplasia	1		1	2	1	2	2		2				1	2	1	1	1						2	2	3	27 1.6
Hypertrophy							2		1	1													2			11 1.7
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia		1	2		1	1							2		2	2			2		1		2	2	2	22 1.7
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Angiectasis																										2 2.5
Pars Distalis, Cyst	3																									2 2.5
Pars Distalis, Hyperplasia			2		2	1	1	2		2			1	2	3					2						22 1.9
Pars Distalis, Pigmentation																										1 1.0
Rathke's Cleft, Cyst										4																1 4.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia	1	1		2	1	1	1	2	1		1			1		1			1	1		1	2	2	1	32 1.2

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

Follicular Cell, Hyperplasia

1 1.0

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granuloma Sperm																										2	2 2.0
Inflammation			2																								1 2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation							1					1	2	2			2					2					9 1.6
Duct, Ectasia			2																								3 2.3
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation			2			2										2										3	2 2.1
Epithelium, Hyperplasia	1	1		1		1	1	1													1				1	2	15 1.1
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																											1 4.0
Germinal Epithelium, Atrophy			1																								3 2.3
Interstitial Cell, Hyperplasia																											1 2.0

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

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

HEMATOPOIETIC SYSTEM

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	10	3.1			
Lymph Node Hematopoietic Cell Proliferation																											2	1	1.0		
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0		
Lymph Node, Mesenteric Degeneration, Cystic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0
Spleen Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	3	2.3
Thymus Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	3.0

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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

Inflammation, Chronic Active	4	3	1 3.0
Hair Follicle, Cyst			1 4.0

MUSCULOSKELETAL SYSTEM

Bone	+ +	50
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NERVOUS SYSTEM

Brain	+ +	50
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RESPIRATORY SYSTEM

Lung	+ +	50	
Congestion			2 3.0
Hemorrhage			1 2.0
Metaplasia, Squamous			1 1.0
Alveolar Epithelium, Hyperplasia		2	1 1.8
Alveolus, Inflammation, Histiocytic	3	1 1	1 1 2 2
Serosa, Hyperplasia			1 1 1
			2 1
			2
			27 1.3
			2 2.0
Nose	+ +	50	
Inflammation		2	25 1.9
Goblet Cell, Hyperplasia		1	3
Olfactory Epithelium, Degeneration			2 3
Olfactory Epithelium, Metaplasia, Respiratory			1
		2	3 1.3
			1 1.0
			2 2.0

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

Trachea Inflammation + 50 2 1.0

SPECIAL SENSES SYSTEM

Eye + 50

Harderian Gland Inflammation + 50 2 2.0

Epithelium, Hyperplasia 3 3 2.3

URINARY SYSTEM

Kidney Nephropathy + 50 45 1.9

Cortex, Mineralization 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1.0

Pelvis, Dilatation 2 2.0

Renal Tubule, Pigmentation 3 1 3.0

Transitional Epithelium, Hyperplasia 4 1 4.0

Urinary Bladder Inflammation + 50 1 1.0

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Perforation				X																						
Periesophageal Tissue, Inflammation				2																						
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																										
Inflammation																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan									X																	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peyer's Patch, Hyperplasia																										
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus									X	X																
Clear Cell Focus		X	X				X	X			X		X		X				X	X					X	
Congestion				2																						
Eosinophilic Focus																										

* .. 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Depletion Cellular																													
Fibrosis																													
Hyperplasia, Lymphoid																													
Thymus	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation																													

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Duct, Dilatation																													
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst Epithelial Inclusion																													
Inflammation, Chronic Active																													

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hemorrhage																													
Hydrocephalus																													

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 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 21

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

DAY ON TEST	0 0																									* TOTALS
	7 7 7 7 7 7 7 5 7 5 6 7 6 6 7 7 7 7 6 6 7 7 7 7 7																									
FISCHER 344 RATS MALE 18.75 MG/KG ANIMAL ID	2 2 2 2 2 2 2 7 1 8 3 2 0 3 2 2 2 2 4 3 2 2 2 2 0																									
	8 8 8 7 8 7 8 0 3 0 2 7 5 8 8 7 8 7 4 9 7 8 8 7 1																									
	0 0																									
	0 0																									
	0 1																									
	7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 0																									
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																									

RESPIRATORY SYSTEM

Lung	+ +																									50						
Congestion																										1	3.0					
Inflammation																										1	1.0					
Alveolar Epithelium, Hyperplasia	2 2 3																									3	9	2.0				
Alveolus, Inflammation, Histiocytic	1 1																									1 1	2	1 2 1 1 1 1 1	1 1 1	1	35	1.1
Arteriole, Inflammation																										2	1	2.0				
Interstitialium, Mineralization																										1	1	1.0				
Nose	+ +																									50						
Inflammation	1 1 1																									1 1 1	2 2	1 3 1	2 1	23	1.4	
Glands, Dilatation																														2	1.5	
Olfactory Epithelium, Degeneration																										1	1			1	5	1.0
Olfactory Epithelium, Metaplasia, Respiratory																															3	1.3
Trachea	+ +																									50						
Inflammation																										1	3	1.0				
Peritracheal Tissue, Inflammation																											1	2.0				

SPECIAL SENSES SYSTEM

Eye	+ +																									50
Harderian Gland	+ +																									50

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 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

DAY ON TEST	0 0																								
	7 6 6 7 7 7 7 7 7 7 7 7 4 6 7 6 5 7 7 6 7 7 6 7 7																								
FISCHER 344 RATS MALE 37.5 MG/KG	2 9 3 0 2 2 2 2 2 0 2 2 5 4 2 3 9 2 2 3 2 2 7 2 2																								
	7 7 7 1 7 7 8 7 8 5 7 8 6 1 7 6 4 5 7 2 8 8 3 8 8																								
ANIMAL ID	0 0																								
	0 0																								
37.5 MG/KG	1 1																								
	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2																								
																									males (cont...)

ALIMENTARY SYSTEM

Esophagus	+ +																								
Intestine Large, Cecum Inflammation	+ + + + + + + + + M + + + + + + + + + + + + + + + + +																								
Intestine Large, Colon Inflammation Parasite Metazoan Ulcer	+ +																								
Intestine Large, Rectum Inflammation	+ +																								
Intestine Small, Duodenum Diverticulum Inflammation	+ +																								
Intestine Small, Ileum	+ + + + + + + + + M + + + + + + + + + + + + + + + + +																								
Intestine Small, Jejunum	+ +																								
Liver Angiectasis Basophilic Focus Clear Cell Focus	+ +																								
	X X																								

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

DAY ON TEST	0 0																									males (cont...)		
	7 6 6 7 7 7 7 7 7 7 7 7 4 6 7 6 5 7 7 6 7 7 6 7 7																											
FISCHER 344 RATS MALE 37.5 MG/KG ANIMAL ID	2 9 3 0 2 2 2 2 2 0 2 2 5 4 2 3 9 2 2 3 2 2 7 2 2																									males (cont...)		
	7 7 7 1 7 7 8 7 8 5 7 8 6 1 7 6 4 5 7 2 8 8 3 8 8																											
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Eosinophilic Focus			X											X		X			X		X	X	X					
Fatty Change		2												1	1	1	2	2	1		2			1	1		1	
Hematopoietic Cell Proliferation																											1	
Hepatodiaphragmatic Nodule																											X	
Inflammation		1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1
Mixed Cell Focus				X					X				X	X														
Thrombosis																												
Bile Duct, Crystals																											4	
Bile Duct, Cyst		2								4		3								3			1	1				
Bile Duct, Hyperplasia		2		2	1	1	1	2	1	1	1	2		1	2	1			1	2	1	2	3	2	3			
Centrilobular, Hepatocyte, Degeneration																												
Hepatocyte, Cellular Alteration, Diffuse		1		1	2		1							2	1		1			1		1		2		1		
Hepatocyte, Degeneration, Cystic				1											1													
Hepatocyte, Necrosis			2	1								1												1				
Kupffer Cell, Pigmentation, Hemosiderin																					1							
Oval Cell, Hyperplasia		1												1								1		2	1	1		
Portal, Fibrosis		1		1					1					1									1	2	1	2		
Mesentery																												
Necrosis			+						+					+						+							+	
			3						3					3						3							3	
Oral Mucosa																												
Pharyngeal, Cyst																												
Pharyngeal, Hyperplasia																												
Pancreas																												
Inflammation																												
Acinus, Atrophy																												
Acinus, Hyperplasia																												
Duct, Cyst																												

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

FISCHER 344 RATS MALE

37.5 MG/KG

Salivary Glands

+ +

Stomach, Forestomach

+ +

Inflammation

2 1 1 2 2

Ulcer

4 2 1 4

Epithelium, Hyperplasia

3 3 2 1 1 1 3 1 3 2 2

Stomach, Glandular

+ +

Erosion

Inflammation

1

Mineralization

3 2

Epithelium, Hyperplasia

1

Tongue

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Mineralization

2

Heart

+ +

Cardiomyopathy

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

Mineralization

3

Atrium, Thrombosis

Endocardium, Bacterium

X X

Endocardium, Inflammation

2

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| | 2 | 9 | 3 | 0 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 5 | 4 | 2 | 3 | 9 | 2 | 2 | 3 | 2 | 2 | 7 | 2 | 2 |
| | 7 | 7 | 7 | 1 | 7 | 7 | 8 | 7 | 8 | 5 | 7 | 8 | 6 | 1 | 7 | 6 | 4 | 5 | 7 | 2 | 8 | 8 | 3 | 8 | 8 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glomerulopathy, Hyaline | | | 2 | 1 | | | | | | | 1 | | | | | | 1 | | | | | | 1 | | |
| Inflammation | | | 2 | | | | | | | 2 | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 1 | 4 | 4 | 3 | 3 | 2 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 4 | 2 | 2 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 4 |
| Thrombosis | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Mineralization | | | 2 | | | | | | | | | | | | | | 1 | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

males
(cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 40

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 6 | 0 |
| | 2 | 2 | 2 | 0 | 6 | 2 | 2 | 8 | 0 | 3 | 5 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 2 | 8 | 0 |
| | 7 | 8 | 7 | 8 | 5 | 7 | 4 | 2 | 1 | 9 | 5 | 7 | 8 | 5 | 7 | 7 | 8 | 7 | 8 | 9 | 8 | 8 | 8 | 7 | 8 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Inflammation | 1 | | | | | | | 1 | 1 | | | | | | | 1 | | | | 1 | | | | | 6 1.2 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Parasite Metazoan | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Diverticulum | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Clear Cell Focus | X | X | X | | | X | | | | | | X | X | | X | X | X | | | X | X | X | X | | 20 |

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | |
| FISCHER 344 RATS MALE
37.5 MG/KG
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | X | | | X | | | X | X | X | | | | | | | | | | | | | 12 |
| Fatty Change | 1 | 2 | 2 | | 1 | 1 | 1 | 3 | 1 | | 2 | 2 | 1 | 1 | | 1 | | | | | 1 | 1 | 1 | | 27 1.4 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | X | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | 1 | 1 | 1 | 1 | 1 | 1 | 3 | | 1 | | 1 | 1 | 2 | | 2 | 1 | 2 | 2 | | | 1 | 2 | 1 | | 41 1.2 |
| Mixed Cell Focus | | | | | | X | | | | | | X | | X | X | | | | | | | X | | | 10 |
| Thrombosis | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Crystals | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Bile Duct, Cyst | | | 1 | 3 | | | | 3 | | | | | | | | | | | | | | | 2 | 1 | 11 2.2 |
| Bile Duct, Hyperplasia | 1 | 2 | 2 | 1 | | 1 | | 1 | 3 | | | 1 | 1 | | 3 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 37 1.5 |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatocyte, Cellular Alteration, Diffuse | | | | 1 | | | 2 | 2 | 2 | | 1 | | | 2 | 1 | | | | 2 | 2 | | | | 1 | 21 1.4 |
| Hepatocyte, Degeneration, Cystic | | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 1.3 |
| Hepatocyte, Necrosis | | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | 6 1.2 |
| Kupffer Cell, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Oval Cell, Hyperplasia | | | | | | | | 2 | | | | | | | 1 | | | | | | | | | | 8 1.3 |
| Portal, Fibrosis | | 1 | 1 | | | | | | | | | | | | 1 | | 1 | | | | | | 1 | | 13 1.2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | 3 | | | | 3 | 3 | | | | 3 | | + | 11 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 3.0 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pharyngeal, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pharyngeal, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Acinus, Atrophy | | | 2 | 1 | | | | 1 | | | 1 | 1 | | | | | 2 | 1 | | | 1 | 1 | | | 20 1.4 |
| Acinus, Hyperplasia | | | 1 | | | | | | | | | | 2 | | 2 | | 1 | | | | | | 3 | | 7 1.9 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

* .. 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
 Page 42

TDMS No. 99020 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
CAS Number: 89-82-7

Date Report Requested: 05/21/2008
Time Report Requested: 09:15:32
First Dose M/F: 04/09/03 / 04/10/03
Lab: BAT

| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 6 | |
| | 2 | 2 | 2 | 0 | 6 | 2 | 2 | 8 | 0 | 3 | 5 | 2 | 2 | 7 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 2 | 8 | |
| | 7 | 8 | 7 | 8 | 5 | 7 | 4 | 2 | 1 | 9 | 5 | 7 | 8 | 5 | 7 | 7 | 8 | 7 | 8 | 9 | 8 | 8 | 8 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 37.5 MG/KG | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | 2 | 2 | 3 | | | | | | | | | | | | | | | | 8 1.9 | |
| Ulcer | | | | | 3 | 4 | 4 | | | | | | | | | | | | | | | | 7 3.1 | |
| Epithelium, Hyperplasia | | | | | 2 | 3 | 3 | 2 | 1 | | | 1 | | | | | 2 | | 1 | | 3 | | 20 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Erosion | | | | | | | | | 2 | | | | | | | | | 3 | | | | | 2 2.5 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | | | | 1 | | 2 | | | | | | | | | | | | | | | | | 4 2.0 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | 2 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 3 | 3 | 2 | 2 | 2 | | 3 | 2 | 3 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 48 2.2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | 4 | | | | | 1 4.0 | |
| Endocardium, Bacterium | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Endocardium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | 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
Page 43
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Hyperplasia | 1 1 2 1 1 2 2 2 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 23 | 1.5 |
| Hypertrophy | 1 1 1 2 1 1 1 2 2 2 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 16 | 1.6 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia | 1 2 1 1 1 1 2 2 2 3 4 1 2 2 | | | | | | | | | | | | | | | | | | | | | | | | 30 | 1.9 |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 45 | |
| Hyperplasia | M M M M | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.3 |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pars Distalis, Hyperplasia | 1 2 3 1 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | 18 | 1.9 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 44 | |
| C-cell, Hyperplasia | 1 2 1 1 1 1 1 1 2 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 28 | 1.1 |

GENERAL BODY SYSTEM

NONE

* .. 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 6 | | |
| | 2 | 2 | 2 | 0 | 6 | 2 | 2 | 8 | 0 | 3 | 5 | 2 | 2 | 7 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 8 | | |
| | 7 | 8 | 7 | 8 | 5 | 7 | 4 | 2 | 1 | 9 | 5 | 7 | 8 | 5 | 7 | 7 | 8 | 7 | 8 | 9 | 8 | 8 | 8 | 7 | 8 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granuloma Sperm | | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | 1 | | | | | 1 | 1 | | | | | | 1 | | 1 | 1 | | | 1 | | 13 1.2 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | 2 | | 2 | | | | | 3 | | 2 | | | | | | | | 2 | | | | | | | 10 2.1 |
| Epithelium, Cyst | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Epithelium, Hyperplasia | | 2 | | | | 1 | 1 | | 1 | | | | 1 | | 1 | | 1 | | | | | | 1 | | 12 1.1 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | 5 2.4 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 1.5 |

HEMATOPOIETIC SYSTEM

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

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 6 | 0 | |
| | 2 | 2 | 2 | 0 | 6 | 2 | 2 | 8 | 0 | 3 | 5 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 8 | 0 | |
| | 7 | 8 | 7 | 8 | 5 | 7 | 4 | 2 | 1 | 9 | 5 | 7 | 8 | 5 | 7 | 7 | 8 | 7 | 8 | 9 | 8 | 8 | 8 | 8 | 7 | 8 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS | |

Dermis, Fibrosis 1 2.0

MUSCULOSKELETAL SYSTEM

Bone 50
 Fibrous Osteodystrophy 2 3.0

Skeletal Muscle + 1

NERVOUS SYSTEM

Brain 50
 Hemorrhage 1 3.0
 Cerebrum, Compression 1 3.0
 Cerebrum, Necrosis 1 2.0

RESPIRATORY SYSTEM

Lung 50
 Edema 1 2.0
 Hemorrhage 1 3.0
 Inflammation 1 2.0
 Inflammation, Chronic Active 1 2.0
 Necrosis 1 3.0
 Alveolar Epithelium, Hyperplasia 11 1.5
 Alveolus, Inflammation, Histiocytic 37 1.2
 Arteriole, Inflammation 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. 99020 - 05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 05/21/2008

Time Report Requested: 09:15:32

First Dose M/F: 04/09/03 / 04/10/03

Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|------------|------------|--|
| Arteriole, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Interstitial, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 46 | | |
| Inflammation | 2 | | | | | 1 | 2 | 2 | 1 | | 1 | 1 | | 1 | 2 | 1 | 1 | | 1 | 2 | 2 | 2 | 2 | | | | | 30 | 1.6 | |
| Glands, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | | 2 | 1 | 1 | | 1 | 2 | | 1 | | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | | | | | 2 | 2 | | | 33 | 1.6 | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinate, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

Page 48

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|-----------------|---|
| | | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 6 | 6 |
| | | 2 | 2 | 2 | 0 | 6 | 2 | 2 | 8 | 0 | 3 | 5 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 8 | 8 |
| | | 7 | 8 | 7 | 8 | 5 | 7 | 4 | 2 | 1 | 9 | 5 | 7 | 8 | 5 | 7 | 7 | 8 | 7 | 8 | 9 | 8 | 8 | 8 | 8 | 7 | 8 |
| FISCHER 344 RATS MALE | 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS | |
| Glomerulopathy, Hyaline | | | | | | | 1 | | | | | | | | | | | 1 | | 1 | 1 | | | | 9 1.1 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | |
| Nephropathy | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 4 | 4 | 1 | 1 | 3 | 4 | 1 | 4 | 3 | 3 | 4 | 1 | 2 | 2 | 4 | 4 | 4 | 1 | 50 2.9 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Cortex, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 49

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| 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 | | |
|---|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 6 | 6 | 5 | 7 | 5 | 6 | 4 | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 6 | 5 | 3 | 3 | 4 | 5 | 5 | 6 | 3 | 5 |
| | | 1 | 0 | 1 | 3 | 0 | 0 | 5 | 7 | 9 | 1 | 7 | 4 | 1 | 9 | 8 | 0 | 4 | 6 | 6 | 0 | 3 | 2 | 8 | 6 | 7 |
| | | 4 | 2 | 5 | 3 | 3 | 3 | 0 | 6 | 1 | 1 | 7 | 5 | 0 | 0 | 7 | 5 | 7 | 0 | 0 | 7 | 5 | 5 | 4 | 6 | 0 |
| FISCHER 344 RATS MALE
ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 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 |
| | 75 CHG 0 MG/KG | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | 3 | 1 | | 2 | | | | | 1 | | | 1 | | 2 | 2 | | | | 4 | 4 | | | |
| Mineralization | | | | | | | | | | | 1 | | | | | | 1 | | | | 2 | 2 | | | |
| Ulcer | | | 4 | | | | | | | | | | | | | | 1 | | | | | | 4 | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | 3 | | | | | | | | | | 2 | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | 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. 99020 - 05
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
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Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| 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 | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|
| | 4 | 6 | 6 | 5 | 7 | 5 | 6 | 4 | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 6 | 5 | 3 | 3 | 4 | 5 | 5 | 6 | 3 | 5 | | |
| | 1 | 0 | 1 | 3 | 0 | 0 | 5 | 7 | 9 | 1 | 7 | 4 | 1 | 9 | 8 | 0 | 4 | 6 | 6 | 0 | 3 | 2 | 8 | 6 | 7 | | |
| | 4 | 2 | 5 | 3 | 3 | 3 | 0 | 6 | 1 | 1 | 7 | 5 | 0 | 0 | 7 | 5 | 7 | 0 | 0 | 7 | 5 | 5 | 4 | 6 | 0 | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 75 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | |
| Bile Stasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | X | X | | | | | | | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | X | | | | | | | | | | | X | | | | |
| Inflammation | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | 2 | | | | | | 1 | | | 1 | | |
| Bile Duct, Hyperplasia | 3 | 4 | 3 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 4 | 1 | 3 | | |
| Hepatocyte, Cellular Alteration, Diffuse | 2 | 2 | 2 | 2 | | | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | | |
| Hepatocyte, Necrosis | 2 | | | 2 | | | 2 | | | | 3 | | | 1 | | | | | | | 1 | | | 2 | 2 | | |
| Oval Cell, Hyperplasia | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 1 | | | 1 | 1 | 1 | 2 | 2 | | |
| Portal, Fibrosis | 2 | 2 | 1 | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | | | 2 | 1 | 2 | 1 | 1 | | |
| Mesentery | | | | | + | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Acinus, Atrophy | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | 2 | 1 | | | | | | | 2 | | | | | |
| Duct, Cyst | | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation | 3 | | | | | | | | | 1 | 2 | | | | | | | | 3 | 2 | 2 | 3 | | | 1 | |
| Mineralization | | 2 | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 4 | | | | | | | | | | | 3 | | | | | | | | | 3 | 4 | | | | |
| Epithelium, Hyperplasia | 3 | | | 1 | | | | | | | | 2 | 1 | | 1 | | | | | 2 | 3 | 3 | | | | 3 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | 1 | 2 | | | | | | | | | 1 | | | | | | |
| Mineralization | | 2 | | 1 | | | | 2 | 1 | 2 | | | | 2 | 2 | 1 | 2 | 2 | 2 | | | | 2 | 1 | 2 | 2 |
| Serosa, Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | 2 | | 2 | | 1 | 2 | 2 | | | | 2 | 2 | 1 | 1 | | | 1 | 1 | | | 1 | 2 |
| Hypertrophy | | | | | 3 | | | 1 | | 1 | | | | | 1 | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 52

TDMS No. 99020 - 05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 05/21/2008

Time Report Requested: 09:15:32

First Dose M/F: 04/09/03 / 04/10/03

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 4 6 6 5 7 5 6 4 5 5 3 5 5 4 5 6 5 3 3 4 5 5 6 3 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 0 1 3 0 0 5 7 9 1 7 4 1 9 8 0 4 6 6 0 3 2 8 6 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 2 5 3 3 3 0 6 1 1 7 5 0 0 7 5 7 0 0 7 5 5 4 6 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE
75 CHG 0 MG/KG
ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 1 | | | | 2 | |
| Islets, Pancreatic
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 1 | 3 | 2 | 3 | | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 1 | 2 | |
| Pituitary Gland
Pars Distalis, Cyst
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | 1 | | 2 | | | 1 | | 1 | | | 1 | | 2 | 2 | | 1 | | | 2 | | | | |
| Thyroid Gland
C-cell, Hyperplasia
Follicle, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | 1 | | | | 2 | 1 | 1 | | | | | | | | 1 | | 1 | 1 | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Coagulating Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis
Fibrosis
Granuloma Sperm | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 6 | 6 | 5 | 7 | 5 | 6 | 4 | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 6 | 5 | 3 | 3 | 4 | 5 | 5 | 6 | 3 | 5 |
| | 1 | 0 | 1 | 3 | 0 | 0 | 5 | 7 | 9 | 1 | 7 | 4 | 1 | 9 | 8 | 0 | 4 | 6 | 6 | 0 | 3 | 2 | 8 | 6 | 7 |
| | 4 | 2 | 5 | 3 | 3 | 3 | 0 | 6 | 1 | 1 | 7 | 5 | 0 | 0 | 7 | 5 | 7 | 0 | 0 | 7 | 5 | 5 | 4 | 6 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| Inflammation | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Inflammation | 2 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Mineralization | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | 1 | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Atrophy | 3 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 3 | | | | | 3 | | | | | 3 | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | + | | | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|
| | 4 6 6 5 7 5 6 4 5 5 3 5 5 4 5 6 5 3 3 4 5 5 6 3 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE
75 CHG 0 MG/KG | 1 0 1 3 0 0 5 7 9 1 7 4 1 9 8 0 4 6 6 0 3 2 8 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 2 5 3 3 3 0 6 1 1 7 5 0 0 7 5 7 0 0 7 5 5 4 6 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 CHG 0 MG/KG | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mediastinal, Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 55

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 6 | 6 | 5 | 7 | 5 | 6 | 4 | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 6 | 5 | 3 | 3 | 4 | 5 | 5 | 6 | 3 | 5 |
| | 1 | 0 | 1 | 3 | 0 | 0 | 5 | 7 | 9 | 1 | 7 | 4 | 1 | 9 | 8 | 0 | 4 | 6 | 6 | 0 | 3 | 2 | 8 | 6 | 7 |
| | 4 | 2 | 5 | 3 | 3 | 3 | 0 | 6 | 1 | 1 | 7 | 5 | 0 | 0 | 7 | 5 | 7 | 0 | 0 | 7 | 5 | 5 | 4 | 6 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | | 3 | 2 | 3 | 3 | 2 | 3 | | | 1 | 1 | 2 | 3 | | 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | 2 | 1 | | | | | | | | | | | 1 | | 1 | |
| Alveolus, Inflammation, Histiocyte | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Alveolus, Inflammation, Histiocytic | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 2 | 2 | 1 | 1 | |
| Interstitialium, Mineralization | | 2 | | | | | 2 | | 3 | 2 | | 1 | | | 2 | 2 | | | | | 2 | 1 | | 1 | |
| Vein, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 1 | 1 | | | | | 2 | | | | 1 | 2 | 2 | 2 | | 1 | 2 | | | | | 3 | 1 | 1 | |
| Glands, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 1 | | | | | 1 | 1 | | 2 | 1 | | | 2 | | | | | | 2 | | | 2 | | 2 | 2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 56

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|
| | 5 | 6 | 4 | 4 | 4 | 3 | 5 | 7 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 6 | 6 | 5 | 3 | 3 | 3 | 6 | 4 | 4 | |
| | 0 | 3 | 0 | 9 | 9 | 9 | 3 | 2 | 3 | 1 | 0 | 0 | 1 | 6 | 6 | 2 | 3 | 7 | 0 | 9 | 8 | 6 | 2 | 0 | 0 | |
| | 3 | 4 | 7 | 9 | 7 | 4 | 2 | 7 | 9 | 4 | 7 | 1 | 4 | 1 | 1 | 8 | 5 | 3 | 2 | 3 | 8 | 6 | 2 | 7 | 7 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 75 CHG 0 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

Inflammation 2 3 1.3

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Synechia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 6 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Glomerulopathy, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Cortex, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 21 |
| Urinary Bladder | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

*** END OF MALE DATA ***

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | X | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | | | X | | X | | | | X | X | X | | | | | | | | | | |
| Fatty Change | 3 | | | | | 1 | | | | | | | 1 | 1 | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | X | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation | 1 | 2 | | | 1 | | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | 1 | | |
| Mixed Cell Focus | | | | | | | | | | | X | X | | X | | | | | | | | | | |
| Bile Duct, Cyst | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | 1 | | | | | | 1 | 1 | | | 1 | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| | 4 7 6 6 7 7 5 7 6 6 7 6 7 7 7 7 7 7 6 7 3 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0 MG/KG | 9 2 0 9 2 2 8 2 0 7 2 7 2 2 2 2 2 2 8 2 0 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 8 4 3 9 9 1 8 7 4 8 4 8 8 9 9 8 9 9 8 9 9 8 9 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | 1 | | | | | | | | | | | 2 | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Mesentery
Necrosis | | | | | | | | | | | + | | | | | | + | | | | | | + | | | | | | + | | | | | | | | | | | | | | | | | |
| Oral Mucosa
Pharyngeal, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Acinus, Hyperplasia | 1 | | | | | | 2 | | | 1 | 1 | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Duct, Cyst | | | | | | | | | | | 2 | | | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Salivary Glands
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands
Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Mineralization | 1 | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Ulcer | | | | | | | | | | | 2 | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Epithelium, Hyperplasia | 3 | | | | | | 3 | 2 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99020 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

females
(cont...)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rathke's Cleft, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 1) Minimal 3) Moderate
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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 4 7 6 6 7 7 5 7 6 6 7 6 7 7 7 7 7 7 6 7 3 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0 MG/KG ANIMAL ID | 9 2 0 9 2 2 8 2 0 7 2 7 2 2 2 2 2 2 8 2 0 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 8 4 3 9 9 1 8 7 4 8 4 8 8 9 9 8 9 9 8 9 8 9 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

Thyroid Gland
 C-cell, Hyperplasia
 Follicle, Cyst

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
 Hyperplasia
 Inflammation
 Duct, Cyst

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

Ovary
 Atrophy
 Cyst

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

Uterus
 Hemorrhage
 Endometrium, Hyperplasia, Cystic

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | + | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

Bone Marrow

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

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 Page 69

TDMS No. 99020 - 05

Test Type: CHRONIC

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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 05/21/2008

Time Report Requested: 09:15:32

First Dose M/F: 04/09/03 / 04/10/03

Lab: BAT

| 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 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 3 | 7 | 7 | 6 | | |
| | 9 | 2 | 0 | 9 | 2 | 2 | 8 | 2 | 0 | 7 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 0 | 2 | 2 | 3 | |
| | 5 | 8 | 4 | 3 | 9 | 9 | 1 | 8 | 7 | 4 | 8 | 4 | 8 | 8 | 9 | 9 | 8 | 9 | 9 | 8 | 9 | 8 | 9 | 4 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 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 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|--|--|--|---|--|--|--|
| Hyperplasia
Infiltration Cellular, Histiocyte | | | | | 4 | | | | 2 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node
Deep Cervical, Hyperplasia, Plasma Cell
Mediastinal, Degeneration, Cystic | | | | | + | | | | 2 | | | | + | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | | | | | | | | | | | |
| Lymph Node, Mesenteric
Hemorrhage | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | |
| Spleen
Hemorrhage
Hyperplasia, Lymphoid
Thrombosis | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | |
| Thymus
Atrophy
Inflammation | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|
| Mammary Gland
Duct, Dilatation | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | 3 | | | | 3 | | | | | | | |
| Skin
Cyst Epithelial Inclusion | | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

females
(cont...)

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | 3 | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Inflammation, Histiocytic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

FISCHER 344 RATS FEMALE
0 MG/KG

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Glomerulosclerosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 1 | 2 | 1 | 2 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | 2 | 1 | | 1 | 2 | 1 | 2 | 2 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 2 | 1 | 1 | 1 | 2 | 39 1.3 | |
| Follicle, Cyst | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | 2 | | | | 3 2.3 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.0 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | 1 | | | | | | 2 | | | | | | | | | | | | | 5 1.2 |
| Cyst | | | | | 2 | | | | | | | | | | 2 | 4 | | | | | | | 2 | 6 2.7 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 4 | | | 2 3.5 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

HEMATOPOIETIC SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 76

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | 3 | | | | | | | | 3.0 |
| Retina, Atrophy | | | | | | | | | | 2 | | | | | | | | | | | | | 4 | | | 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | + | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cyst | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 2.0 |
| Glomerulosclerosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nephropathy | 1 | 2 | | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 42 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1.2 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |

* .. 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
 Page 79

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 7 | 2 | 7 | 8 | 2 | 2 | 2 | 0 | 2 |
| | 8 | 9 | 5 | 8 | 8 | 8 | 3 | 9 | 8 | 9 | 9 | 9 | 9 | 1 | 8 | 8 | 3 | 8 | 4 | 9 | 9 | 8 | 9 | 1 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Muscularis, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 99020 - 05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 05/21/2008

Time Report Requested: 09:15:32

First Dose M/F: 04/09/03 / 04/10/03

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 7 | 2 | 7 | 8 | 2 | 2 | 2 | 0 |
| | 8 | 9 | 5 | 8 | 8 | 8 | 3 | 9 | 8 | 9 | 9 | 9 | 9 | 1 | 8 | 8 | 3 | 8 | 4 | 9 | 9 | 8 | 9 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | | | | | | X | | | | X | | | X | |
| Inflammation | 1 | 2 | | | 2 | | | | | 1 | 1 | 1 | 2 | | 1 | X | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Bile Duct, Cyst | | | | | | | | | 2 | | 2 | | | | 3 | | | | | 2 | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | 2 | | | | 1 | | | | | | 1 | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Cellular Alteration, Diffuse | | | | | | | 2 | | | | | | 2 | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Portal, Fibrosis | | | | 1 | | | | | 1 | | | 1 | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | + | | + | + | | | | | | | + | | + | | + | |
| Necrosis | 3 | | | | | | | | 3 | | 3 | 3 | | | | | | | 3 | | 3 | | 2 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | | | | | | | | | | | | X | | | | | | | | | | | | |
| Acinus, Atrophy | | | | | | | | | 1 | | 1 | 1 | | | | | | 1 | 1 | | | | 1 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | 2 | | | | | | | | | | | | | 1 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 1 | | | | | | | | 4 | | | | | | | | | | | | | | 2 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | 2 | | 1 | | |

females (cont...)

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 7 | 2 | 7 | 8 | 2 | 2 | 2 | 0 |
| | 8 | 9 | 5 | 8 | 8 | 8 | 3 | 9 | 8 | 9 | 9 | 9 | 9 | 1 | 8 | 8 | 3 | 8 | 4 | 9 | 9 | 8 | 9 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

Tongue +

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland Hyperplasia | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 7 | |
| | 2 | 2 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 7 | 2 | 7 | 8 | 2 | 2 | 2 | 0 | 2 |
| | 8 | 9 | 5 | 8 | 8 | 8 | 3 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 1 | 8 | 8 | 3 | 8 | 4 | 9 | 9 | 8 | 9 | 1 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 3 |
| Pars Distalis, Hyperplasia | | | 3 | | 2 | 3 | 2 | | | 1 | | 2 | | 2 | 2 | | 2 | 4 | | | 2 | | 2 | 1 | 3 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | 2 | 2 | | | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | | | 1 | | 1 | 1 | 1 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | 3 | | | 1 | 4 | | | | | | | | | 2 | | 3 | | | |
| Duct, Cyst | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 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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 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
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 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

females
(cont...)

Endometrium, Hyperplasia, Cystic 3

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow
Hyperplasia
Myelofibrosis | + | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node
Deep Cervical, Hemorrhage | + | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen
Accessory Spleen
Pigmentation, Hemosiderin | + | | | | | | | | | | | | | | | | | | | | | | | | |
| | X 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus
Cyst
Inflammation | + | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 2 | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mammary Gland
Hyperplasia | + | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | 2 | 2 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 7 | 2 | 7 | 8 | 2 | 2 | 2 | 0 | |
| | 8 | 9 | 5 | 8 | 8 | 8 | 3 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 1 | 8 | 8 | 3 | 8 | 4 | 9 | 9 | 8 | 9 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mineralization
Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 4 | | 2 | | | | | | | | | | | | | | 4 |
| Skin
Epidermis, Hyperplasia
Subcutaneous Tissue, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Inflammation, Histiocytic
Serosa, Inflammation | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | | 1 | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 85
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99020 - 05

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Route: GAVAGE

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CAS Number: 89-82-7

Date Report Requested: 05/21/2008

Time Report Requested: 09:15:32

First Dose M/F: 04/09/03 / 04/10/03

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 7 | 2 | 7 | 8 | 2 | 2 | 2 | 0 | 2 |
| | 8 | 9 | 5 | 8 | 8 | 8 | 3 | 9 | 8 | 9 | 9 | 9 | 9 | 1 | 8 | 8 | 3 | 8 | 4 | 9 | 9 | 8 | 9 | 1 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | 3 | | 2 | 2 | 1 | 1 | 1 | | | | | 1 | | 2 | 3 | | | 1 | 3 | | 1 | 1 | 2 | 1 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Dilatation | | | | | | | | | 1 | | 2 | | 1 | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 1 | 2 | | 2 | 2 | | | 1 | 2 | 1 | | 1 | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 |
| Olfactory Epithelium, Metaplasia, Respiratory | | 2 | | | 1 | | | | | | | | 1 | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | 1 | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glomerulopathy, Hyaline | | 1 | | 1 | | | 1 | 1 | | | 1 | | | 1 | 1 | | 1 | | | 1 | | 1 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 1 | | 1 | 1 | | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 |

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 7 | 2 | 7 | 8 | 2 | 2 | 2 | 0 |
| | 8 | 9 | 5 | 8 | 8 | 8 | 3 | 9 | 8 | 9 | 9 | 9 | 9 | 1 | 8 | 8 | 3 | 8 | 4 | 9 | 9 | 8 | 9 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal Tubule, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Urinary Bladder | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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
 Page 87

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----------------------------|
| Esophagus
Inflammation
Muscularis, Degeneration
Periesophageal Tissue, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0
1 1.0
1 4.0 |
| Intestine Large, Cecum
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 1.0 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 6 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver
Angiectasis
Basophilic Focus
Clear Cell Focus
Fatty Change | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 1.4
21
12
25 1.4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked
Page 88

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|-----------------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | | | |
| | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 7 | 2 | 5 | 1 | | | |
| | 9 | 9 | 8 | 0 | 9 | 8 | 9 | 7 | 8 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 9 | 2 | 0 | 8 | 0 | 6 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | X | | | | X | | | | | | | | 6 | |
| Inflammation | 1 | | 1 | | | 1 | 1 | | | 1 | 1 | | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 31 1.1 | |
| Bile Duct, Cyst | | 3 | | | | | | | | | 2 | | | | | | | | | | | | | | 6 2.3 | |
| Bile Duct, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Hepatocyte, Cellular Alteration, Diffuse | | | | | | | | 2 | | | | | | | | | | | | | | 2 | | | 4 2.0 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 1.5 | |
| Portal, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Mesentery | | | | + | | + | | | | | | | + | + | | | | + | | | | | | | 12 | |
| Necrosis | | | | 3 | | 3 | | | | | | | 3 | 3 | | | | 3 | | | | | | | 12 2.9 | |
| Pancreas | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Acinus, Atrophy | | | | | | | | | | | | | | 2 | | | | 1 | 1 | | | 1 | | 1 | 12 1.2 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Duct, Cyst | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | 4 1.0 | |
| Salivary Glands | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 7 2.1 | |
| Stomach, Glandular | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 1.3 | |

* .. 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | | | |
| | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 7 | 2 | 5 | 1 | | | |
| | 9 | 9 | 8 | 0 | 9 | 8 | 9 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 9 | 2 | 0 | 8 | 0 | 6 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | * TOTALS |

Tongue 1

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Blood Vessel Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 45 2.0 |
| Heart Hypertrophy | 1 | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | | | 1 | 3 | | | | 1 2.0 |
| Heart Mineralization | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 1.5 |
| Adrenal Cortex Hematopoietic Cell Proliferation | | | | | | | | | | | 2 | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Adrenal Cortex Hyperplasia | | | | | | 1 | | | | | | | | | | | | | | 1 | | 1 | | | 2 | | | 7 1.4 |
| Adrenal Cortex Hypertrophy | | | 1 | | | | | | | | 2 | 2 | | | | | | | | 1 | | 1 | | | | | | 14 1.6 |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 1.1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland Hyperplasia | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | 1 1.0 |

* .. 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
 Page 90

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| 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 | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | | |
| | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 7 | 2 | 5 | 1 | | |
| | 9 | 9 | 8 | 0 | 9 | 8 | 9 | 7 | 8 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 8 | 9 | 2 | 0 | 8 | 0 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|----|-----|
| Pituitary Gland
Hemorrhage
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 3.0 | 26 | 2.0 |
| Thyroid Gland
C-cell, Hyperplasia
Follicle, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.2 | 32 | 1.3 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|---|-----|---|-----|
| Clitoral Gland
Hyperplasia
Inflammation
Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | 7 | 2.3 | 2 | 3.0 |
| Ovary
Atrophy
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.2 | 5 | 2.8 | | |
| Uterus
Hemorrhage
Inflammation
Endometrium, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | 3.0 | 1 | 1.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 91

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

| | | | | |
|----------------------------------|---|---|-----|-----|
| Endometrium, Hyperplasia, Cystic | 1 | 2 | 3.0 | 2.0 |
|----------------------------------|---|---|-----|-----|

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|-------|-------|
| Bone Marrow
Hyperplasia
Myelofibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 8 3.3 | 1 3.0 | |
| Lymph Node
Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen
Accessory Spleen
Pigmentation, Hemosiderin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1 2.0 |
| Thymus
Cyst
Inflammation | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 3.0 | 1 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 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
 Page 92

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| 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 | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | | |
| | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 7 | 2 | 5 | 1 | | |
| | 9 | 9 | 8 | 0 | 9 | 8 | 9 | 7 | 8 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 8 | 9 | 2 | 0 | 8 | 0 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37.5 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|-----|
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.5 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | | |
| Subcutaneous Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.0 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 14 | 1.4 | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1 | 1 | 1 | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Alveolus, Inflammation, Histiocytic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 44 | 1.0 | | | |
| Serosa, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |

* .. 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | | | | |
| | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 7 | 2 | 5 | 1 | | | | |
| | 9 | 9 | 8 | 0 | 9 | 8 | 9 | 7 | 8 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 8 | 9 | 2 | 0 | 8 | 0 | 6 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 37.5 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | 1 | | 1 | | 1 | 4 | | | | | 1 | 1 | | | 3 | | | | | | | | | | 22 1.7 |
| Thrombosis | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Glands, Dilatation | | | | | | | 1 | 1 | | | | | | | | | 1 | | | | | | | | | | 6 1.2 |
| Olfactory Epithelium, Degeneration | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 40 1.2 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | 1 | 1 | 1 | | | 1 | 1 | | | | | | | | | 8 1.1 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | 3 | | | | | | | | | | | | | | | | | | | | | 3 | | | 3 3.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 1.0 |
| Retina, Atrophy | | | 4 | | | | | 3 | | | | | | | | | | | | | | | 4 | | | | 4 3.8 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 1.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Glomerulopathy, Hyaline | 1 | | 1 | | | | 1 | | | | | | | | 1 | 1 | 1 | | | | | | 1 | | | | 17 1.0 |
| Inflammation | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nephropathy | 2 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 44 1.3 |

* .. 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
 Page 94

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|-----------|---|
| DAY ON TEST | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | | | |
| | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 7 | 2 | 5 | 1 | | |
| | 9 | 9 | 8 | 0 | 9 | 8 | 9 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 8 | 9 | 2 | 0 | 8 | 0 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37.5 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Renal Tubule, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 95

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 0 | 2 | 1 | 2 | 9 | 2 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 9 | 9 | 9 | 9 | 8 | 5 | 9 | 9 | 2 | 8 | 6 | 8 | 8 | 8 | 9 | 8 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | | | | | | | | | | 1 | | | | | | | | 1 | | | | | |
| Intestine Large, Colon
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | X | | | X | | | | X | | X | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | X | X | | X | | | | | | X | | | | | | | | | | | | | | |
| Fatty Change | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | | 3 | 1 | 1 | 2 | | | 2 | | 2 | 2 | 2 | 2 |
| Hepatodiaphragmatic Nodule | | | X | | | | | | | | | | X | | | | | | | | | | | | |
| Inflammation | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 2 | | | 2 | 1 | 2 | 2 | 2 | 2 |
| Mixed Cell Focus | | | | | | | | | X | | | | | | | | | | | | | | X | X | X |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 96
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 0 | 2 | 1 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | |
| | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 9 | 9 | 9 | 9 | 8 | 5 | 9 | 9 | 2 | 8 | 6 | 8 | 8 | 8 | 9 | 8 | 9 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 75.0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Stomach, Glandular Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peridontal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | 1 | | | | | 2 | | | | | | | | | | | | 1 | | | | | 1 | | |
| Hypertrophy | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | | | | 1 | | 2 | 3 | | | 2 | 2 | 1 | | 1 | 2 | 2 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 1 | | | | | | | | 2 | | 1 | | 3 | | 2 | | | | 1 | 1 | | 1 | | 3 | 1 | 1 |

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland Hyperplasia | +
2 3 2 2 1 1 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland Pars Distalis, Angiectasis
Pars Distalis, Hyperplasia | +
2 3 1 1 1 2 1 1 1 3 1 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland C-cell, Hyperplasia
Follicle, Cyst | +
1 1 1 1 1 1 1 2 1 1 1 3 | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Clitoral Gland Inflammation
Duct, Cyst | +
3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary Atrophy
Cyst | +
3 3 3 4 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. 99020 - 05
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Pulegone
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Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 0 | 2 | 1 | 2 | 9 | 2 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 9 | 9 | 9 | 9 | 8 | 5 | 9 | 9 | 2 | 8 | 6 | 8 | 8 | 8 | 9 | 8 | 9 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hydrometra | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 2 | 2 | | 3 | | | | | | 4 | | 3 | | 3 | 4 | 3 | 4 | | 1 | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | + | | | | | | + | | | | | | | | + | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Deep Cervical, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Mediastinal, Degeneration, Cystic | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 100

TDMS No. 99020 - 05
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

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 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 0 | 2 | 1 | 2 | 9 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 9 | 9 | 9 | 9 | 8 | 5 | 9 | 9 | 2 | 8 | 6 | 8 | 8 | 8 | 9 | 8 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

Hyperplasia, Lymphoid
 Capsule, Hemorrhage

Thymus + M +

INTEGUMENTARY SYSTEM

Mammary Gland
 Inflammation
 Duct, Dilatation +
 4

Skin +

MUSCULOSKELETAL SYSTEM

Bone
 Fibrous Osteodystrophy +

NERVOUS SYSTEM

Brain
 Hemorrhage +
 4

RESPIRATORY SYSTEM

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Inflammation, Histiocytic | 1 2 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Perivascular, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 1 1 2 1 3 2 4 2 4 2 3 2 3 2 3 2 3 3 2 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Dilatation | 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 1 2 2 2 2 2 2 2 2 3 2 2 2 2 2 3 2 2 2 3 2 3 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 2 3 2 1 2 2 2 2 3 2 4 2 2 1 1 3 1 2 2 2 2 2 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Septum, Fibrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinate, Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Dysplasia | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| 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 | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|----|-----|-----|
| | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
| 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 | | | | | |
| 75.0 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | |
| Bile Duct, Cyst | 2 | 1 | 2 | | 3 | 3 | | 1 | 2 | 2 | 3 | 3 | 3 | | 3 | 3 | 2 | 2 | 3 | 2 | 3 | | 2 | 2 | 2 | 38 | 2.3 | |
| Bile Duct, Hyperplasia | 4 | 4 | 4 | | 3 | 4 | 4 | 1 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 2 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 49 | 3.2 |
| Hepatocyte, Cellular Alteration, Diffuse | 2 | 1 | 1 | | 2 | 2 | 1 | | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | 2 | 2 | 2 | 1 | | 45 | 1.5 | |
| Hepatocyte, Necrosis | | | 2 | | | | 1 | | 2 | | 2 | 1 | | | | | 3 | 1 | | 1 | | 1 | 2 | | | 20 | 1.7 | |
| Oval Cell, Hyperplasia | 2 | 2 | 2 | | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | | 45 | 1.7 | |
| Portal, Fibrosis | 1 | 2 | 1 | | 1 | | 2 | | 1 | 2 | 1 | 1 | 2 | | 1 | | 1 | 1 | | 2 | | | 1 | 1 | 1 | 28 | 1.3 | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Serosa, Hemorrhage | | | | | | | | | 3 | | | | | | | | | | | | | | | | | 3 | 3.0 | |
| Serosa, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | + | + | | | | | | | | | + | | | | | | + | 5 | | |
| | | | | | | | | | 3 | 3 | | | | | | | | | 3 | | | | | | 3 | 5 | 3.2 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | 49 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Acinus, Atrophy | | | | 2 | | | 1 | | 1 | | 1 | 1 | 1 | 1 | | | | | 1 | 1 | | | | | | 15 | 1.1 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Duct, Cyst | | | | | | | 1 | | | | | | | 1 | | | | | 1 | | | | | | | 3 | 1.0 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 49 | | |
| Ulcer | | | | | | | | 2 | | 1 | | | | | | | | | | | | | | | | 2 | 7 | 2.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2.7 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 15 | 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. 99020 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
CAS Number: 89-82-7

Date Report Requested: 05/21/2008
Time Report Requested: 09:15:32
First Dose M/F: 04/09/03 / 04/10/03
Lab: BAT

DAY ON TEST

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 7 | 7 | 4 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2 | 2 | 2 | 2 | 6 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 |
| 9 | 9 | 8 | 8 | 8 | 9 | 8 | 7 | 8 | 2 | 8 | 8 | 8 | 2 | 8 | 2 | 8 | 9 | 9 | 8 | 2 | 8 | 8 | 9 |

FISCHER 344 RATS FEMALE

ANIMAL ID

75.0 MG/KG

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

*** TOTALS**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| Stomach, Glandular Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tooth Dysplasia | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | 2 |
| Peridental Tissue, Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 4.0
1 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart Mineralization | 1 | 1 | 2 | | 3 | 1 | 1 | 1 | 2 | 3 | 3 | 2 | | 1 | 1 | | 1 | 3 | 2 | 1 | 3 | 3 | 1 | 1 | 3 | | | 47 1.9
1 1.0 |
| Heart Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------------|---------------|
| Adrenal Cortex Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adrenal Cortex Hyperplasia | | | | | | | 2 | | | | 1 | | | | | | | | | | 3 | | | | | | | | 1 3.0 |
| Adrenal Cortex Hypertrophy | | | 2 | 1 | | 1 | 2 | | 2 | | 1 | | 1 | 2 | 1 | | 3 | 2 | 1 | 1 | | 3 | 1 | 1 | | | | 6 1.3
34 1.6 | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | 1 | | | | | | | 2 | | 1 | | 3 | | 2 | | | | | 2 | | | | | | | | 17 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. 99020 - 05
Test Type: CHRONIC
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Pulegone
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Lab: BAT

DAY ON TEST

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 7 | 7 | 4 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2 | 2 | 2 | 2 | 6 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 9 | 9 | 8 | 8 | 8 | 9 | 8 | 7 | 8 | 2 | 8 | 8 | 8 | 2 | 8 | 2 | 8 | 9 | 9 | 8 | 2 | 8 | 8 | 8 | 8 | 9 | | |

FISCHER 344 RATS FEMALE

ANIMAL ID

75.0 MG/KG

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

Islets, Pancreatic

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 49 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Parathyroid Gland
Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | 1 | | | | | | | | | | | 2 | | | | | | | | | | 3 | | | 2 | 11 2.0 |

Pituitary Gland
Pars Distalis, Angiectasis
Pars Distalis, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| 2 | | | | | | 1 | | 3 | | | | 2 | 2 | 1 | 2 | | | 3 | | 2 | | | | 1 | 1 | 2 | 24 1.8 |

Thyroid Gland
C-cell, Hyperplasia
Follicle, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | 1 | 1 | 1 | 1 | | 1 | | | | | | | | 1 | 1 | 19 1.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Inflammation
Duct, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |

Ovary
Atrophy
Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |
| | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 5 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

Page 107

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99020 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
CAS Number: 89-82-7

Date Report Requested: 05/21/2008
Time Report Requested: 09:15:32
First Dose M/F: 04/09/03 / 04/10/03
Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--|
| | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | |
| | 9 | 9 | 8 | 8 | 8 | 9 | 8 | 7 | 8 | 2 | 8 | 8 | 8 | 2 | 8 | 2 | 8 | 9 | 9 | 8 | 2 | 8 | 8 | 8 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 75.0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | 2 | | | | | | | | | | | | | | 2 2.0 | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | 2 | | | | | | | | 2 | | | | | | | | | | | 2 2.0 | |
| Hyperplasia | 3 | | | 4 | | 3 | 4 | 1 | | 3 | | | | | 4 | 3 | | | | 3 | 3 | | | | 20 3.0 | |
| Myelofibrosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 3.0 | |
| Lymph Node | | | | + | | | | + | | | | | | | | | | | | | | | | | 5 | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Deep Cervical, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mediastinal, Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | 3 | | | | | | | | | | | | | | | | | 2 3.0 | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 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. 99020 - 05

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Pulegone

CAS Number: 89-82-7

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Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 9 | 8 | 8 | 8 | 9 | 8 | 7 | 8 | 2 | 8 | 8 | 8 | 2 | 8 | 2 | 8 | 9 | 9 | 8 | 2 | 8 | 8 | 8 | 8 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|------------|---|---|---|-----------|
| Hyperplasia, Lymphoid Capsule, Hemorrhage | | | | | 4 | | | | 2 | | | | | | | | | | | | 1 | 2.0 | | | | |
| Thymus | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|------------|---|---|---|---|---|---|---|-----------|
| Mammary Gland Inflammation Duct, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 1 | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|------------|---|-----------|
| Bone Fibrous Osteodystrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|------------|
| Brain Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

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
Page 109
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| | 7 7 7 4 6 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
75.0 MG/KG
ANIMAL ID | 2 2 2 2 6 2 2 9 2 0 2 2 2 0 2 0 2 2 2 2 0 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 9 8 8 8 9 8 7 8 2 8 8 8 2 8 2 8 9 9 8 2 8 8 8 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolar Epithelium, Hyperplasia | 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 10 1.1 |
| Alveolus, Inflammation, Histiocytic | 1 2 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 49 1.0 |
| Perivascular, Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Inflammation | 2 2 2 2 4 2 3 2 1 1 2 1 1 1 2 4 3 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 39 2.2 |
| Thrombosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Glands, Dilatation | 1 2 | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| Olfactory Epithelium, Degeneration | 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 | | | | | | | | | | | | | | | | | | | | | | | | 48 2.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | 2 1 1 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 46 1.7 |
| Septum, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Turbinate, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Retina, Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Epithelium, Hyperplasia | 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | |
| | 9 | 9 | 8 | 8 | 8 | 9 | 8 | 7 | 8 | 2 | 8 | 8 | 8 | 2 | 8 | 2 | 8 | 9 | 9 | 8 | 2 | 8 | 8 | 8 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 75.0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

Zymbal's Gland

1

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Glomerulopathy, Hyaline | 2 | 2 | 1 | | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 2 | 4 | 3 | 2 | 3 | 3 | 49 2.2 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nephropathy | 3 | 3 | 3 | | 4 | 2 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 2 | 3 | 3 | 3 | 49 2.9 |
| Cortex, Mineralization | | | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |

* .. 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
 Page 111

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|---|--|
| | 0
6
1
7 | 0
5
8
2 | 0
6
1
7 | 0
5
2
3 | 0
6
1
7 | 0
5
2
4 | 0
6
9
1 | 0
3
6
9 | 0
4
7
1 | 0
6
0
4 | 0
3
4
9 | 0
5
3
8 | 0
5
3
8 | 0
4
7
0 | 0
5
3
8 | 0
5
8
6 | 0
6
3
4 | 0
6
0
4 | 0
6
0
4 | 0
5
9
3 | 0
6
2
4 | 0
5
9
1 | 0
6
4
3 | 0
5
9
4 | 0
6
4
5 | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 150 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum
Inflammation
Ulcer | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Intestine Large, Colon
Inflammation
Mineralization | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Intestine Large, Rectum
Erosion
Inflammation
Parasite Metazoan | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Intestine Small, Ileum
Parasite Metazoan | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Intestine Small, Jejunum | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Liver
Basophilic Focus | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|---|
| | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 3 | 4 | 6 | 3 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 5 | 6 | 5 | 6 | 5 | |
| | 1 | 8 | 1 | 2 | 1 | 2 | 9 | 6 | 7 | 0 | 4 | 3 | 3 | 7 | 7 | 5 | 8 | 3 | 0 | 0 | 9 | 2 | 9 | 4 | 4 | |
| | 7 | 2 | 7 | 3 | 7 | 4 | 1 | 9 | 1 | 4 | 9 | 8 | 8 | 0 | 1 | 9 | 6 | 3 | 4 | 4 | 3 | 1 | 4 | 3 | 8 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 150 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Erosion | | | | 2 | | | | | | | | | | | | | | | 1 | | 3 | | | | |
| Inflammation | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | 2 | | | | 2 | 2 | 2 | | | | | | | | | 2 | | 3 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | | | | |

Tooth
 Peridontal Tissue, Inflammation

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | 1 | | 2 | | | 3 | | | | 3 | 2 | 2 | | | | 2 | | | 3 | | | | 2 | 1 | 3 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 3 | 3 | 1 | 2 | 2 | 3 | 1 | | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 3 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | 3 | | | | | | | 1 | | | | | | | | | | | | | | |
| Mineralization | | | | | | 2 | | | | 3 | | | 1 | | | | | | | | | | | | 2 |
| Artery, Inflammation | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Endocardium, Ventricle, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve, Thrombosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99020 - 05
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Pulegone
 CAS Number: 89-82-7

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 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 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. 99020 - 05
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 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

Pulegone
 CAS Number: 89-82-7

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

| FISCHER 344 RATS FEMALE
150 CHG 0 MG/KG
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland
Hyperplasia
Inflammation | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary
Atrophy
Cyst
Hemorrhage | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Uterus
Hemorrhage
Hydrometra
Inflammation
Cervix, Cyst
Endometrium, Hyperplasia, Cystic | 2 | | | 1 | | 3 | | 3 | 2 | | | | | 3 | | 2 | 2 | | | | 3 | 3 | | | |
| | 1 | | | 3 | | 3 | | | | | | | | 2 | | | | | | | | | | | |
| | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node
Deep Cervical, Hemorrhage
Deep Cervical, Hyperplasia, Lymphoid
Mediastinal, Hemorrhage
Pancreatic, Hemorrhage | 3 | 3 | 3 | 4 | 3 | 2 | 3 | | 4 | 2 | 4 | 2 | 4 | 2 | 3 | | 4 | 4 | 3 | 1 | 3 | 3 | 3 | 3 | + |
| | | | + | + | | | | | | | + | | | | | | | | | | | | | | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | 3 | | | | | | 2 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |

* .. 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Inflammation | | | | 3 | 1 | | 1 | | | | | | 2 | 3 | | | | | | | | | | | | | |
| Necrosis, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Hyperplasia, Lymphoid | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus Atrophy | + | + | + | + | + | + | M | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin Hair Follicle, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Fibrous Osteodystrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 3 | 3 | 3 | | 2 | 3 | 2 | | | 3 | 3 | | | | | 3 | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | |

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

| FISCHER 344 RATS FEMALE
150 CHG 0 MG/KG
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

Skeletal Muscle
 Hemorrhage

+
3

NERVOUS SYSTEM

Brain
 Hemorrhage
 Thrombosis

+
 4
 1

Peripheral Nerve

Spinal Cord

RESPIRATORY SYSTEM

Lung
 Bacterium
 Hemorrhage
 Inflammation, Suppurative
 Pigmentation, Hemosiderin
 Thrombosis
 Alveolar Epithelium, Hyperplasia
 Alveolus, Inflammation, Histiocytic
 Arteriole, Inflammation
 Interstitium, Mineralization

+
 X
 2 3
 4
 2
 1 1 2 3
 1 1 1 2 1 1 1 1 1 1 1 1
 2 2
 1 2 1 2 1 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. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

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

| FISCHER 344 RATS FEMALE
150 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | A |
| Inflammation | 3 | 2 | | | 4 | 1 | 3 | 3 | 3 | 1 | 3 | 1 | | | | 1 | 3 | | | | | | | 3 |
| Thrombosis | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Glands, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Olfactory Epithelium, Degeneration | 2 | 1 | 2 | | 3 | | 2 | | 1 | 3 | 3 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | | | 2 | 2 |
| Olfactory Epithelium, Metaplasia, Respiratory | 2 | 1 | 2 | | 3 | | 2 | | 1 | 2 | 3 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | | | 2 | 2 |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Optic Nerve, Atrophy | | | 2 | | | 3 | | | | | | 2 | | | | | | | | | | 2 | | |
| Retina, Atrophy | | | | | | | | | | | | | 2 | | | | | | | | | | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian 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. 99020 - 05
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 3 | 4 | 6 | 3 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 5 | 6 | 5 | 6 | 5 |
| FISCHER 344 RATS FEMALE
150 CHG 0 MG/KG
ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 150 CHG 0 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| females (cont...) | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Kidney | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Glomerulopathy, Hyaline | 3 | 3 | 3 | 4 | 3 | 3 | 3 | | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 3 | 4 | 2 | 4 | 4 | 4 | | 2 | 4 | 2 | 4 | 4 | 3 | 3 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Cortex, Mineralization | 2 | 2 | 2 | | | 3 | 1 | | | 3 | | 2 | | 1 | 1 | 2 | | | 1 | | | | 3 | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 120

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| | 3 4 5 3 6 0 5 5 5 6 5 6 5 5 6 4 5 5 4 3 6 3 6 5 6
9 5 0 3 0 1 7 7 3 6 1 6 8 9 6 6 8 6 8 9 0 5 1 5 1
0 0 3 8 7 9 4 8 7 6 6 6 6 3 2 8 0 9 8 3 4 2 1 0 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 CHG 0 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 33 1.2 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 13 1.8 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 43 3.7 |
| Hepatocyte, Cellular Alteration, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 43 1.9 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 15 2.0 |
| Hepatocyte, Regeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 43 1.8 |
| Portal, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 35 1.4 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pharyngeal, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 46 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 17 1.5 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 46 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 9 1.7 |

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

TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| 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 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 3 | 4 | 5 | 3 | 6 | 0 | 5 | 5 | 5 | 6 | 5 | 6 | 5 | 5 | 6 | 4 | 5 | 5 | 4 | 3 | 6 | 3 | 6 | 5 | 6 |
| | 9 | 5 | 0 | 3 | 0 | 1 | 7 | 7 | 3 | 6 | 1 | 6 | 8 | 9 | 6 | 6 | 8 | 6 | 8 | 9 | 0 | 5 | 1 | 5 | 1 |
| | 0 | 0 | 3 | 8 | 7 | 9 | 4 | 8 | 7 | 6 | 6 | 6 | 6 | 3 | 2 | 8 | 0 | 9 | 8 | 3 | 4 | 2 | 1 | 0 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|--------------|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | 46 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mineralization | | | | | 2 | | 1 | | | 2 | | | | 3 | | 2 | | | | 3 | | 3 | | | 13 2.2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peridontal Tissue, Inflammation | | | | | | + | | | | | | | | | | | | | | | | | | | | 1 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineralization | | | | | 2 | | | | | 2 | 3 | | 2 | 3 | | | 3 | | | | 2 | | 3 | | 2 | 20 2.3 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | | 2 | 1 | 2 | | | 2 | 2 | | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | | 3 | 2 | 2 | 44 2.0 |
| Hypertrophy | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | | | | | | | | 3 | | | | | | | | | | | | 3 | | | | | | 4 2.5 |
| Mineralization | | | | | | | | | | | 2 | | 2 | | | 2 | | | | 3 | | 3 | 1 | 1 | | 11 2.0 |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Endocardium, Ventricle, Thrombosis | | | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 |
| Valve, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

ENDOCRINE 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. 99020 - 05
 Test Type: CHRONIC
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Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 150 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | 2 | | 1 | | | | | | 1 | | 1 | | | | | | | 1 | | 2 | |
| Hypertrophy | | | | | | | | | | | | 3 | 2 | 1 | 1 | | | 1 | | | | | 1 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | 1 | | 1 | | 2 | | 2 | | 2 | 3 | 3 | | | | 1 | 1 | | | 3 | 2 | 2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | 46 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | 2 | 3 | | 3 | 1 | 3 | 3 | 4 | | 3 | 4 | | | 4 | 2 | | | 4 | 3 | 2 | 31 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Hyperplasia | | 1 | | 2 | | | | | | | | | 2 | | | | | | | | | | | 12 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Inflammation | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

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 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 3 | 4 | 5 | 3 | 6 | 0 | 5 | 5 | 5 | 6 | 5 | 6 | 5 | 5 | 6 | 4 | 5 | 5 | 4 | 3 | 6 | 3 | 6 | 5 | |
| FISCHER 344 RATS FEMALE
150 CHG 0 MG/KG
ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Ovary | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 2.3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.8 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | 1 | 4 | | | 3 | | 3 | | 3 | 3 | 3 | 2 | 3 | | 4 | 3 | | | | | | | 3 | 2 | 3 | 2 | 38 | 2.9 |
| Lymph Node | | | + | | | | | | | | | | + | | | | | | | | | | + | | | 11 | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2.7 | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | 2.0 | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| | 3 4 5 3 6 0 5 5 5 6 5 6 5 5 6 4 5 5 4 3 6 3 6 5 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
150 CHG 0 MG/KG
ANIMAL ID | 9 5 0 3 0 1 7 7 3 6 1 6 8 9 6 6 8 6 8 9 0 5 1 5 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 3 8 7 9 4 8 7 6 6 6 6 3 2 8 0 9 8 3 4 2 1 0 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | 45 |
| Hemorrhage | | | | | 2 | | 2 | | 2 | 1 | | 2 | | | | 3 | 2 | | | | | 3 | | | 18 2.2 |
| Inflammation | | | | | | | | | | | 3 | | | | | | | | | | | | | | 2 2.0 |
| Necrosis, Lymphoid | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | 46 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 2 | | | | | | | | | | | | | 2 2.0 |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Lymphoid | | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Necrosis, Lymphoid | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Atrophy | | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 3.0 |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hair Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrous Osteodystrophy | | | | | 3 | | 3 | | 2 | 3 | 3 | | 3 | 4 | | 3 | | | | | 3 | | 3 | | 3 | 27 2.9 |

* .. 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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| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 3 | 4 | 5 | 3 | 6 | 0 | 5 | 5 | 5 | 6 | 5 | 6 | 5 | 5 | 6 | 4 | 5 | 5 | 4 | 3 | 6 | 3 | 6 | 5 | 6 | | |
| 9 | 5 | 0 | 3 | 0 | 1 | 7 | 7 | 3 | 6 | 1 | 6 | 8 | 9 | 6 | 6 | 8 | 6 | 8 | 9 | 0 | 5 | 1 | 5 | 1 | | |
| 0 | 0 | 3 | 8 | 7 | 9 | 4 | 8 | 7 | 6 | 6 | 6 | 6 | 3 | 2 | 8 | 0 | 9 | 8 | 3 | 4 | 2 | 1 | 0 | 1 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 150 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

Skeletal Muscle Hemorrhage 1 1 3.0

NERVOUS SYSTEM

Brain Hemorrhage 50 1 4.0
 Thrombosis 1 1.0
 Peripheral Nerve 1
 Spinal Cord 1

RESPIRATORY SYSTEM

Lung 50 1
 Bacterium 1
 Hemorrhage 12 2.4
 Inflammation, Suppurative 1 4.0
 Pigmentation, Hemosiderin 1 2.0
 Thrombosis 1 2.0
 Alveolar Epithelium, Hyperplasia 12 1.3
 Alveolus, Inflammation, Histiocytic 43 1.1
 Arteriole, Inflammation 2 2.0
 Interstitium, Mineralization 16 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:
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 2) Mild 4) Marked

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 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Nose | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | A | + | A | + | + | A | + | + | + | 41 | |
| Inflammation | | | | 2 | 3 | 1 | 3 | 2 | | | | | 4 | 3 | 2 | | | | | | | | 2 | 3 | 2 | 3 | 26 2.5 |
| Thrombosis | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 3.0 |
| Glands, Dilatation | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 2 1.0 |
| Olfactory Epithelium, Degeneration | 2 | 2 | 2 | 3 | 3 | 1 | | 2 | | 2 | | 2 | 2 | 2 | | 2 | | 3 | 1 | | 3 | 3 | 2 | | | 37 2.1 | |
| Olfactory Epithelium, Metaplasia, Respiratory | 1 | 1 | 1 | 2 | 3 | | | 2 | | 2 | | 3 | 2 | 2 | | 2 | | 2 | | 2 | 1 | | 3 | 2 | 3 | 36 2.0 | |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 |
| Inflammation | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 |
| Inflammation | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 9 2.3 |
| Optic Nerve, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 2.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

URINARY SYSTEM

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

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TDMS No. 99020 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 05/21/2008
 Time Report Requested: 09:15:32
 First Dose M/F: 04/09/03 / 04/10/03
 Lab: BAT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | |
| 3 | 4 | 5 | 3 | 6 | 0 | 5 | 5 | 5 | 6 | 5 | 6 | 5 | 5 | 6 | 4 | 5 | 5 | 4 | 3 | 6 | 3 | 6 | 5 | 6 | 2 2.5 | |
| 9 | 5 | 0 | 3 | 0 | 1 | 7 | 7 | 3 | 6 | 1 | 6 | 8 | 9 | 6 | 6 | 8 | 6 | 8 | 9 | 0 | 5 | 1 | 5 | 1 | 48 3.3 | |
| 0 | 0 | 3 | 8 | 7 | 9 | 4 | 8 | 7 | 6 | 6 | 6 | 6 | 3 | 2 | 8 | 0 | 9 | 8 | 3 | 4 | 2 | 1 | 0 | 1 | 2 3.0 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | |
| 150 CHG 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 1.5 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 1 1.0 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Glomerulopathy, Hyaline | 3 | 3 | 4 | 3 | 4 | | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 2 | 3 | 3 | 3 | 4 | 3 | | |
| Inflammation | | | | | | | | 2 | | | 4 | | | | | | | | | | | | | | | |
| Nephropathy | 2 | 2 | 3 | 3 | 4 | | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 1 | 2 | 4 | 2 | 4 | 3 | 4 | |
| Cortex, Mineralization | 1 | | | | 2 | | 2 | | | 3 | 3 | | 3 | 3 | | | 3 | | | | 2 | | 2 | 1 | 2 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

*** END OF REPORT ***

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