

TDMS No. 99020 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
CAS Number: 89-82-7

Date Report Requested: 04/23/2009
Time Report Requested: 10:39:03
First Dose M/F: 04/15/03 / 04/14/03
Lab: BAT

F1_Rev1_M3

C Number: C99020

Lock Date: 12/21/2005

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25022 ACCK 25021 TSAC 25020 NATD
25019 MSAC 25018 DACC

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.1.0

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DAY ON TEST	0 0																								
	7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 4 7 5 5 7 7 7 4 7 7																								
ANIMAL ID	3 3 3 3 3 3 4 3 3 4 3 3 3 1 3 7 3 4 3 3 3 3 7 3 3																								
	1 0 2 2 1 2 9 2 2 0 1 2 2 4 0 7 1 7 5 1 1 1 9 2 0																								
B6C3F1 MICE MALE 0 MG/KG	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...)

Fatty Change, Focal	2 1 2 2 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								
Fatty Change, Diffuse	1 1																								
Hematopoietic Cell Proliferation	1 1																								
Hepatodiaphragmatic Nodule	1 1																								
Inflammation	1 1																								
Mixed Cell Focus	X X																								
Necrosis	1 1																								
Pigmentation	2 2																								
Tension Lipidosis	X X																								
Oval Cell, Hyperplasia	1 1																								
Vein, Intravascular Hepatocyte	1 1																								
Mesentery	+ +																								
Fat, Necrosis	3 3																								
Pancreas	+ +																								
Cyst	1 1																								
Infiltration Cellular, Mononuclear Cell	1 1																								
Acinus, Atrophy	1 1																								
Salivary Glands	+ +																								
Infiltration Cellular, Mononuclear Cell	2 1 1 2 1 1 1 2 2 1 2 1 2 1 2 1 1 2 2 1 1 2 2 1 1																								
Stomach, Forestomach	+ +																								
Hyperplasia, Squamous	1 1																								
Inflammation	1 1																								
Artery, Inflammation, Chronic Active	2 2																								
Stomach, Glandular	+ +																								

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DAY ON TEST	0 0																								
	7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 4 7 5 5 7 7 7 4 7 7																								
ANIMAL ID	3 3 3 3 3 3 4 3 3 4 3 3 3 1 3 7 3 4 3 3 3 3 7 3 3																								
	1 0 2 2 1 2 9 2 2 0 1 2 2 4 0 7 1 7 5 1 1 1 9 2 0																								
B6C3F1 MICE MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2

males (cont...)

Mineralization	1																								
Glands, Cyst	1																								
Glands, Hyperplasia	1																								
Tooth	+																								
Dysplasia	1	2	3		2	1		2	2		2	1	2	1		1		3		2		4	1		
Pulp, Inflammation	2																								

CARDIOVASCULAR SYSTEM

Blood Vessel	+																								
Heart	+																								
Cardiomyopathy																									
Infiltration Cellular, Mononuclear Cell	1																								
Inflammation																									
Mineralization	2																								

ENDOCRINE SYSTEM

Adrenal Cortex	+																								
Hypertrophy	1																								
Subcapsular, Hyperplasia	2																								
Zona Fasciculata, Hyperplasia	1																								
Adrenal Medulla	+																								

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

B6C3F1 MICE MALE
0 MG/KG

Hematopoietic Cell Proliferation Hyperplasia, Lymphoid Lymphoid Follicle, Atrophy Red Pulp, Atrophy	1	1	1	3	1	1	1	1					1	1	1		2	1	1		3	1		1	1
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2	2	3	2	2	2			3	3	2	2		2	3		4	4		1	2		3	2	

INTEGUMENTARY SYSTEM

Mammary Gland	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
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																									+

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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RESPIRATORY SYSTEM

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	7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 4 7 5 5 7 7 7 4 7 7																								
ANIMAL ID	3 3 3 3 3 3 4 3 3 4 3 3 3 1 3 7 3 4 3 3 3 3 7 3 3																								
	1 0 2 2 1 2 9 2 2 0 1 2 2 4 0 7 1 7 5 1 1 1 9 2 0																								
B6C3F1 MICE MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	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	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males (cont...)

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																								
Alveolar Epithelium, Hyperplasia																								
Alveolus, Infiltration Cellular, Histiocyte																								1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			1																					
Nerve, Atrophy																								
Olfactory Epithelium, Degeneration														1										
Olfactory Epithelium, Metaplasia																								
Respiratory Epithelium, Hyperplasia	1	1	1	1		1		1	1	1	1	1	1		1				2		1		2	2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation																							2	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell	1		1	1	1		1	1		1	1	1	1				1	1	1		1		1	1
Epithelium, Hyperplasia																								

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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DAY ON TEST	0																										
	7	7	7	7	7	7	5	7	7	6	7	7	7	7	4	7	5	5	7	7	7	4	7	7			
	3	3	3	3	3	3	4	3	3	4	3	3	3	1	3	7	3	4	3	3	3	3	7	3	3		
	1	0	2	2	1	2	9	2	2	0	1	2	2	4	0	7	1	7	5	1	1	1	9	2	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	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		
.....																											
Accumulation, Hyaline Droplet																2											
Cyst									1								2				2						1
Glomerulopathy, Hyaline																											
Infarct																			3								
Metaplasia, Osseous											2						2										
Mineralization	1		1		1		1	1	1		1	1	1	1	1						1	1		1	1		
Nephropathy	1	1	1	1	1	1	1	1	2		1	1	1	1	1		1	3	3	2	1	1	1	1	1		
Glomerulus, Congestion									2											1	2	2					
Papilla, Necrosis																											
Pelvis, Inflammation																2											
Renal Tubule, Hyperplasia																											
.....																											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Infiltration Cellular, Mononuclear Cell				1	1	1	1		1	1		1	1		1	1		1		1	1	1		1			

males (cont...)

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DAY ON TEST	0 0																								* TOTALS
	7	7	5	7	7	6	6	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	6	7	
B6C3F1 MICE MALE 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
ANIMAL ID	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

ALIMENTARY SYSTEM

Esophagus Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
				1																					2 1.5
Gallbladder Infiltration Cellular, Mononuclear Cell	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	49
																									1 1.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum Hyperplasia, Lymphoid Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																						2			1 2.0
																						2			1 2.0
Intestine Small, Jejunum Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1 3.0
Liver Basophilic Focus Clear Cell Focus Eosinophilic Focus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
								X															X		4
				X				X	X					X	X	X					X		X		15
					X		X														X				7

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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		
B6C3F1 MICE MALE	7	7	5	7	7	6	6	7	7	7	7	7	7	7	7	7	3	7	7	7	7	7	6	7		
0 MG/KG	3	3	7	3	3	4	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	3		
	1	1	3	1	0	6	5	0	0	1	2	2	2	2	1	2	1	1	1	0	1	0	2	1	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Fatty Change, Focal																1									3 2.0	
Fatty Change, Diffuse	1	1	1	1	2		1		2	2		1	1	1	1			1	2	1	1	2	2	1	1	38 1.3
Hematopoietic Cell Proliferation																										3 1.0
Hepatodiaphragmatic Nodule																								X		1 1.0
Inflammation						1			1		1				1	1		1	1		1	1				24 1.0
Mixed Cell Focus		X		X			X		X		X	X			X			X	X	X	X					18 1.0
Necrosis																										1 1.0
Pigmentation																1								1		3 1.3
Tension Lipidosis					X	X	X																			5 1.0
Oval Cell, Hyperplasia																								1		1 1.0
Vein, Intravascular Hepatocyte																										3 1.0
Mesentery																										4 3.0
Fat, Necrosis																3										3 3.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2.0
Cyst					2																					1 1.0
Infiltration Cellular, Mononuclear Cell												1										1	1			5 1.0
Acinus, Atrophy																							3			1 3.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1.4
Infiltration Cellular, Mononuclear Cell	2	1		1	1		1	1	2	1	2		1	1	1		1	2	2	2	2	1	1	1	1	40 1.4
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2.0
Hyperplasia, Squamous																								1		7 2.0
Inflammation																										3 1.7
Artery, Inflammation, Chronic Active																										1 2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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ANIMAL ID	3 3 7 3 3 4 9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 3																								
	1 1 3 1 0 6 5 0 0 1 2 2 2 2 1 2 1 1 1 0 1 0 2 1 0																								
B6C3F1 MICE 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 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	
	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	

Mineralization	1																							2 1.0	
Glands, Cyst																								4 1.0	
Glands, Hyperplasia																								1 2.0	
.....																									
Tooth	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37	
Dysplasia	2	2		3	4	4	3	4	2	2	1	2	1	2	3	1		1	4	2	4		3	2	37 2.2
Pulp, Inflammation																								1 2.0	

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	1																							1 1.0	
Infiltration Cellular, Mononuclear Cell	1																							4 1.0	
Inflammation	1																							1 1.0	
Mineralization																								1 2.0	

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hypertrophy	3	3		1					2	1		2		2											17 1.6
Subcapsular, Hyperplasia			1	1	2	1	1	2	2	2	1	1	2	1	1	2	2	1		2	1	1	2	1	39 1.3
Zona Fasciculata, Hyperplasia	2																							1 2.0	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

DAY ON TEST	0 0																								* TOTALS
	7	7	5	7	7	6	6	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	6	7	
ANIMAL ID	3 3 7 3 3 4 9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 3																								
	1 1 3 1 0 6 5 0 0 1 2 2 2 2 1 2 1 1 1 0 1 0 2 1 0																								
B6C3F1 MICE 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 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	
	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

Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
				2	1	2	1	1				2	1			1					1	2		2	1	20 1.4
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	46	
Pituitary Gland Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																							1		1 1.0	
Thyroid Gland Infiltration Cellular, Mononuclear Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																									1 1.0	

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Coagulating Gland Hyperplasia																									1	1 2.0
Epididymis Infiltration Cellular, Mononuclear Cell Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
		1	1	1	1		1	1		1	1	1		2			1		2	2					23 1.2	
Preputial Gland Infiltration Cellular, Mononuclear Cell Inflammation Duct, Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
							1												1	1	1				10 1.1	
																									4 1.0	
																							2		1 2.0	

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TDMS No. 99020 - 06
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 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

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 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	
7	7	5	7	7	6	6	7	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	6	7	
3	3	7	3	3	4	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	3	
1	1	3	1	0	6	5	0	0	1	2	2	2	2	1	2	1	1	1	0	1	0	2	1	0	
B6C3F1 MICE MALE																									
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	
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	

Hematopoietic Cell Proliferation	1			1		1						2	1		2	1	2			1	1	3			29 1.3
Hyperplasia, Lymphoid																									2 2.5
Lymphoid Follicle, Atrophy				2																					1 2.0
Red Pulp, Atrophy				2																					1 2.0
<hr/>																									
Thymus	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Atrophy			4		2	2	4	3	2	2	3			2	2	2		3		2	3	2	2	2	36 2.4

INTEGUMENTARY SYSTEM

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	M	1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																									1

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------

RESPIRATORY SYSTEM

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TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

Lab: BAT

DAY ON TEST	0 0																								* TOTALS
	7 7 5 7 7 6 6 7 7 7 7 7 7 7 7 7 3 7 7 7 7 7 6 7																								
B6C3F1 MICE MALE 0 MG/KG	3 3 7 3 3 4 9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 3																								* TOTALS
	1 1 3 1 0 6 5 0 0 1 2 2 2 2 1 2 1 1 1 0 1 0 2 1 0																								
ANIMAL ID	0 0																								* TOTALS
	0 0																								
ANIMAL ID	0 0																								* TOTALS
	2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5																								
ANIMAL ID	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

Lung	+ +																								50	
Hemorrhage																									2	1 2.0
Alveolar Epithelium, Hyperplasia																									3	2 3.0
Alveolus, Infiltration Cellular, Histiocyte	1																									2 1.0

Nose	+ +																								50	
Inflammation																									2	2 1.5
Nerve, Atrophy																									1	1 1.0
Olfactory Epithelium, Degeneration																									3	3 2.0
Olfactory Epithelium, Metaplasia																									2	1 2.0
Respiratory Epithelium, Hyperplasia	1 1 2 1																									38 1.1

Trachea	+ +																								50
---------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

SPECIAL SENSES SYSTEM

Eye	+ +																								50	
Cornea, Inflammation																										1 2.0
Harderian Gland	+ +																								50	
Infiltration Cellular, Mononuclear Cell	1 1																									34 1.0
Epithelium, Hyperplasia																									1	1 1.0

URINARY SYSTEM

Kidney	+ +																								50
--------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

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TDMS No. 99020 - 06

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Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

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Lab: BAT

DAY ON TEST	0 0																								
	6 7 0 7 7 4 7 7 7 7 4 7 7 7 7 7 6 7 6 6 7 7 7 7																								
ANIMAL ID	4 3 5 3 3 2 0 3 3 3 4 3 3 3 3 2 3 9 3 4 4 3 3 3 3																								
	6 1 9 2 0 8 9 0 1 1 4 1 2 0 1 1 1 3 1 8 6 2 2 0 1																								
B6C3F1 MICE MALE	0 0																								
37.5 MG/KG	0 0																								
	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	1			1					1	1			1				1			1	1	1	2		
Mixed Cell Focus		X		X									X	X			X			X	X				
Necrosis							2									2				1					
Tension Lipidosis												X													
Centrilobular, Degeneration												2													
Centrilobular, Vacuolization Cytoplasmic																							2		
Centrilobular, Hepatocyte, Hypertrophy	1								1	1								1							
Serosa, Inflammation, Chronic Active																									
Vein, Intravascular Hepatocyte																									
Mesentery																									
Fat, Necrosis																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cytoplasmic Alteration, Focal																				1					
Infiltration Cellular, Mononuclear Cell																							1		
Acinus, Atrophy																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell	1				1				1	1				1	2	1	1	1		2	1	1	1	1	2
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Squamous							3	3								3	2			1		2		3	
Inflammation							2	2								3	2					2		2	
Mineralization																									
Ulcer							2																		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																1									

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TDMS No. 99020 - 06
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 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

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 Lab: BAT

DAY ON TEST	0 0																								
	6 7 0 7 7 4 7 7 7 7 4 7 7 7 7 7 6 7 6 6 7 7 7 7																								
ANIMAL ID	4 3 5 3 3 2 0 3 3 3 4 3 3 3 3 2 3 9 3 4 4 3 3 3 3																								
	6 1 9 2 0 8 9 0 1 1 4 1 2 0 1 1 1 3 1 8 6 2 2 0 1																								
B6C3F1 MICE 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
	0	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	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

males
(cont...)

Epithelium, Hyperplasia																										2																								
Glands, Cyst																										1	1																							
Glands, Hyperplasia																																																		
Tooth																										+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Dysplasia																										2	3	2				1	3	1	1	1	2	2	3	3							3	2	1	3
Pulp, Inflammation																																																		

CARDIOVASCULAR SYSTEM

Blood Vessel	+ +																									
Heart	+ +																									
Mineralization																										1

ENDOCRINE SYSTEM

Adrenal Cortex	+ +																																																
Hypertrophy																										2	1																						
Vacuolization Cytoplasmic																										2																							
Subcapsular, Hyperplasia																											1	1	1					1		1	2	3	1	1	2	1	1	1	1	2	1	1	1
Adrenal Medulla	+ +																																																
Hyperplasia																																																	1
Islets, Pancreatic	+ +																																																
Hyperplasia																																																	1

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 Page 20

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
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 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

DAY ON TEST	0 0																								
	6 7 0 7 7 4 7 7 7 7 4 7 7 7 7 7 6 7 6 6 7 7 7 7 7																								
ANIMAL ID	4 3 5 3 3 2 0 3 3 3 4 3 3 3 3 2 3 9 3 4 4 3 3 3 3																								
	6 1 9 2 0 8 9 0 1 1 4 1 2 0 1 1 1 3 1 8 6 2 2 0 1																								
B6C3F1 MICE 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
	0	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	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...)

Parathyroid Gland	M	M	M	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																											
Infiltration Cellular, Mononuclear Cell	2				1					1				1	1	1	1			1				1	3	1	1
Mineralization																											
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell					2										1										2		1
Inflammation																											3
Duct, Ectasia																											3
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell																											
Epithelium, Hyperplasia		1		1	1					1																	

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DAY ON TEST	0 0																								
	6 7 0 7 7 4 7 7 7 7 4 7 7 7 7 7 6 7 6 6 7 7 7 7																								
ANIMAL ID	4 3 5 3 3 2 0 3 3 3 4 3 3 3 3 2 3 9 3 4 4 3 3 3 3																								
	6 1 9 2 0 8 9 0 1 1 4 1 2 0 1 1 1 3 1 8 6 2 2 0 1																								
B6C3F1 MICE 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
	0	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	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...)

Thymus	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	2			2			2	2		4	3	2		2	3	3	3	2	3	3	2	2	2
Hyperplasia, Lymphoid																								
Necrosis, Lymphoid																								

INTEGUMENTARY SYSTEM

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																								
Ulcer																								
Subcutaneous Tissue, Hemorrhage																								

2

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fracture																								
Osteosclerosis																								

X

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Arteriole, Infiltration Cellular, Lymphoid																								
Meninges, Infiltration Cellular, Lymphoid																								

1
2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 23

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

	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	
	6	7	0	7	7	4	7	7	7	7	4	7	7	7	7	7	6	7	6	6	7	7	7	7		
	4	3	5	3	3	2	0	3	3	3	4	3	3	3	3	2	3	9	3	4	4	3	3	3	3	
	6	1	9	2	0	8	9	0	1	1	4	1	2	0	1	1	1	3	1	8	6	2	2	0	1	
B6C3F1 MICE MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
37.5 MG/KG	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	males (cont...)

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation											1													3	
Alveolar Epithelium, Hyperplasia													2											1	
Alveolus, Infiltration Cellular, Histiocyte																								1	
Serosa, Inflammation																								2	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																									
Polyp, Inflammatory																								2	
Glands, Cyst																									
Nerve, Atrophy																								1	
Olfactory Epithelium, Degeneration																								2	
Olfactory Epithelium, Metaplasia																								1	
Respiratory Epithelium, Hyperplasia	1	1		1	1	1	1	1	1			1	2	2	1	1	1	1	1				2	1	1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Optic Nerve, Degeneration																								
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell																								
Inflammation, Chronic Active																								

* .. Total animals with tissue examined microscopically; 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 - 06
 Test Type: CHRONIC
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Pulegone
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Date Report Requested: 04/23/2009
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 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

DAY ON TEST	0 0																									
	6 7 0 7 7 4 7 7 7 7 4 7 7 7 7 7 6 7 6 6 7 7 7 7 7																									
ANIMAL ID	4 3 5 3 3 2 0 3 3 3 4 3 3 3 3 2 3 9 3 4 4 3 3 3 3																									
	6 1 9 2 0 8 9 0 1 1 4 1 2 0 1 1 1 3 1 8 6 2 2 0 1																									
B6C3F1 MICE 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	males (cont...)
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	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	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	

Epithelium, Hyperplasia 3 1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																1						1		1
Glomerulopathy, Hyaline	2							1	1						1	1				1	1			1
Metaplasia, Osseous																			2					
Mineralization		1		1	1				1	1		1	1		1	1					1	1		1
Nephropathy	3	1		1	1			1	1	1		1	1	1	3	1	1	1	3	3	1	1	1	1
Glomerulus, Congestion	2							1						2						1				3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell										1		1	1	1		1		1	1	1	1	1	1	1

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 25

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

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	6	6	7	7	7	7	6	7	7	6	7	7	7	7	7	6	7		
	3	3	3	3	3	3	3	0	8	3	3	3	3	9	3	3	9	3	3	3	3	3	5	3		
	1	1	2	2	2	2	2	2	6	8	1	2	0	0	3	0	2	0	1	2	2	2	0	2		
B6C3F1 MICE 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		
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9		
																									* TOTALS	
Inflammation	1	1	1	1				1				1				1	1	1		1			1	21	1.0	
Mixed Cell Focus		X		X	X		X				X	X	X			X			X	X	X		X	20		
Necrosis			1								2			2	2	1								8	1.6	
Tension Lipidosis				X				X	X		X			X				X						6		
Centrilobular, Degeneration																								1	2.0	
Centrilobular, Vacuolization Cytoplasmic																								1	2.0	
Centrilobular, Hepatocyte, Hypertrophy	1											1				1	1	1	2	1				11	1.1	
Serosa, Inflammation, Chronic Active					3																			1	3.0	
Vein, Intravascular Hepatocyte																			1					1	1.0	
.....																										
Mesentery																										
Fat, Necrosis																									2	
																									3	1
																										3.0
.....																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cytoplasmic Alteration, Focal																									2	1.0
Infiltration Cellular, Mononuclear Cell																1	1	1		2				5	1.2	
Acinus, Atrophy																2								1	2.0	
.....																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Mononuclear Cell		1	1	1		2	2	1	1		1	1			1	1	1	1	2				1	1	32	1.2
.....																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Squamous																1			2	3				10	2.3	
Inflammation															1			2	2					9	2.0	
Mineralization									1															1	1.0	
Ulcer															1				1					3	1.3	
.....																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization																									1	1.0

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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
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 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

DAY ON TEST	0 0																								
	7 7 7 7 7 7 7 7 6 6 7 7 7 7 6 7 7 6 7 7 7 7 7 6 7																								
ANIMAL ID	3 3 3 3 3 3 3 3 0 8 3 3 3 3 9 3 3 9 3 3 3 3 3 5 3																								
	1 1 2 2 2 2 2 2 6 8 1 2 0 0 3 0 2 0 1 2 2 2 0 2 2																								
B6C3F1 MICE 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
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	* TOTALS																								

Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																										1 3.0
Dilatation																										1 2.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst																										1 3.0
Mineralization																										2 1.5
Germinal Epithelium, Atrophy																										2 1.5

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node																											3
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																										4 2.0	
Hyperplasia, Lymphoid																										1 3.0	
Hyperplasia, Plasma Cell																										1 2.0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Atrophy																										1 2.0	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation	1	1	1	1		2		3	3	3	1	1	1	1	3		2	2	2	1		1	1		32 1.7		
Hyperplasia, Lymphoid																										3 1.7	

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DAY ON TEST	0 0																								
	7 7 7 7 7 7 7 7 7 7 5 7 7 6 7 6 7 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 3 3 3 3 3 3 8 3 3 3 3 4 3 3 3 3 3 3 3 3 3																								
	0 1 2 1 2 1 2 1 0 2 8 0 1 9 1 6 1 1 1 2 1 2 2 1 0																								
B6C3F1 MICE 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 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	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

males (cont...)

Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dysplasia	1		2	1	2		2	1	2	2		2		4		3	1	2	2	2		2		3
Peridontal Tissue, Inflammation																								
Pulp, Inflammation																								

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell																								
Mineralization																								

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Cystic																								
Hypertrophy	1																							
Subcapsular, Hyperplasia	1	2	1	2	1	1	1	1	1		1	1	1	1	1	1	1	2	2	2	1	1	2	1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia		3																						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia		1	1			2	1			1	1	1						2	1	1	1		2	2

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DAY ON TEST	0 0																							
	7 7 7 7 7 7 7 7 7 7 5 7 7 6 7 6 7 7 7 7 7 7 7 7																							
ANIMAL ID	3 3 3 3 3 3 3 3 3 3 8 3 3 3 3 4 3 3 3 3 3 3 3 3																							
	0 1 2 1 2 1 2 1 0 2 8 0 1 9 1 6 1 1 1 2 1 2 2 1 0																							
B6C3F1 MICE MALE 75 MG/KG	0 0																							
	0 0																							
	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																							
	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																							

males (cont...)

Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	M	+	+	M
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia	3																							
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granuloma Sperm																								
Infiltration Cellular, Mononuclear Cell	2 1 1 1 1 1 1 1																							
Penis	+																							
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell	2 1 1 1 1 2																							
Inflammation	1 3																							
Duct, Ectasia	2																							
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell	1 1 1 1 1 1 1 1																							
Inflammation	1 1																							

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DAY ON TEST	0 0																								
	7 7 7 7 7 7 7 7 7 7 5 7 7 6 7 6 7 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 3 3 3 3 3 3 8 3 3 3 3 4 3 3 3 3 3 3 3 3 3																								
	0 1 2 1 2 1 2 1 0 2 8 0 1 9 1 6 1 1 1 2 1 2 2 1 0																								
B6C3F1 MICE 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 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	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

males
(cont...)

Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																									
Germinal Epithelium, Atrophy																									

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Myelofibrosis																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation																									
Lymphoid Follicle, Atrophy																									
Red Pulp, Atrophy																									
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									

INTEGUMENTARY SYSTEM

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 + .. Tissue examined microscopically
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 BLANK .. Not examined microscopically
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 2) Mild 4) Marked

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

Lab: BAT

	DAY ON TEST																								* TOTALS
	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754	
B6C3F1 MICE MALE	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	
75 MG/KG	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	
Mixed Cell Focus		X			X	X		X	X					X	X	X							X	19	
Necrosis			2									1											2	5 1.6	
Pigmentation	1																							2 1.0	
Tension Lipidosis	X								X		X			X							X			7	
Bile Duct, Cyst	1																			3				3 2.0	
Bile Duct, Hyperplasia	1																							1 1.0	
Centrilobular, Vacuolization Cytoplasmic																								1 2.0	
Centrilobular, Hepatocyte, Hypertrophy	1						1		2	1			1			2	1	1		1	1		1 2 1	23 1.2	
Oval Cell, Hyperplasia	1																							1 1.0	
Vein, Intravascular Hepatocyte										1	1		1		1		1							15 1.0	
Mesentery																									
Fat, Necrosis																					+		+	3 3.0	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cytoplasmic Alteration, Focal																								1 2.0	
Infiltration Cellular, Mononuclear Cell												1								1			1	4 1.0	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																								1 2.0	
Infiltration Cellular, Mononuclear Cell	1		1	1		1	1	1	2	1	1		1		1	1	1	1	1	2		1	30 1.2		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Squamous			2	3	2		3	1	2	2		1	2	1	3	4		1	1			3	1 3	27 2.1	
Inflammation		1	1	2	2		1	1	2	2		2		2	3					1	2		2	24 1.7	
Ulcer							2		1						2	3								9 1.9	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Glands, Cyst																						1		3 1.0	

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TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

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 Lab: BAT

DAY ON TEST	0 0																								* TOTALS
	7 7 7 7 6 5 7 7 6 7 7 7 7 7 7 7 7 6 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 9 9 3 3 5 3 3 3 3 3 3 3 3 6 3 3 1 3 3 3																								
	1 2 1 1 5 7 2 0 4 0 1 0 1 2 2 2 1 1 8 2 1 4 1 2 2																								
B6C3F1 MICE MALE	0 0																								
75 MG/KG	0 0																								
	1 1																								
	2 2 2 2 3																								
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																								

Tooth	+ +																								35
Dysplasia	1 2 2 2 1 2 1 2 1 1 1 2 2 2 2 1 1 2																								35 1.8
Peridontal Tissue, Inflammation																									1 3.0
Pulp, Inflammation	3																								1 2.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+ +																								50
Heart	+ +																								50
Infiltration Cellular, Mononuclear Cell																									1 1.0
Mineralization																									1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+ +																								50
Degeneration, Cystic																									1 2.0
Hypertrophy	2 1 1 1 1 1 1 1																								8 1.3
Subcapsular, Hyperplasia	1 1 1 1 2 2 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1																								47 1.2
Adrenal Medulla	+ +																								50
Hyperplasia																									1 3.0
Islets, Pancreatic	+ +																								50
Hyperplasia	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								21 1.2

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DAY ON TEST	0 0																								* TOTALS
	7 7 7 7 6 5 7 7 6 7 7 7 7 7 7 7 7 6 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 9 9 3 3 5 3 3 3 3 3 3 3 3 6 3 3 1 3 3 3																								
	1 2 1 1 5 7 2 0 4 0 1 0 1 2 2 2 1 1 8 2 1 4 1 2 2																								
B6C3F1 MICE MALE	0 0																								
75 MG/KG	0 0																								
	1 1																								
	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 5																								
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																								

Parathyroid Gland	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	41
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Hyperplasia																											1 3.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granuloma Sperm																											2
Infiltration Cellular, Mononuclear Cell				1	1	1	1	1		1	1					1					1	1	1		1	20 1.1	
Penis																											1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infiltration Cellular, Mononuclear Cell	1	1			2								1											2	1	12 1.3	
Inflammation																											3 2.3
Duct, Ectasia															2									2			3 2.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infiltration Cellular, Mononuclear Cell					1	1		2				1	1				1	1	1								23 1.0
Inflammation																											1 2.0

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DAY ON TEST	0 0																									* TOTALS		
	7 7 7 7 6 5 7 7 6 7 7 7 7 7 7 7 7 6 7 7 7 7 7 7																											
ANIMAL ID	3 3 3 3 9 9 3 3 5 3 3 3 3 3 3 3 3 6 3 3 1 3 3 3																											
	1 2 1 1 5 7 2 0 4 0 1 0 1 2 2 2 1 1 8 2 1 4 1 2 2																											
B6C3F1 MICE 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		
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	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	4	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		

Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mineralization																												1 2.0
Germinal Epithelium, Atrophy																												3 2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Myelofibrosis				1											1												2	3 1.3		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																											2	3 2.3		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45		
Atrophy																											2	2 2.5		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hematopoietic Cell Proliferation				2	3	3		1		1					1	1	1								3	2	3	23 1.9		
Lymphoid Follicle, Atrophy																												1 3.0		
Red Pulp, Atrophy																												1 2.0		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45		
Atrophy				2	2	3		3		3	2		3	3	2	2		3	2		M					2	3	3	3	32 2.7

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DAY ON TEST	0 0																								* TOTALS
	7 7 7 7 6 5 7 7 6 7 7 7 7 7 7 7 7 6 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 9 9 3 3 5 3 3 3 3 3 3 3 3 6 3 3 1 3 3 3																								
	1 2 1 1 5 7 2 0 4 0 1 0 1 2 2 2 1 1 8 2 1 4 1 2 2																								
B6C3F1 MICE MALE	0 0																								
75 MG/KG	0 0																								
	1 1																								
	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4																								
	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																								

Mammary Gland	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
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										2 2.5
Ulcer																										2 2.5
Epidermis, Hyperplasia																										1 2.0

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										2 2.5
Alveolar Epithelium, Hyperplasia																										2 2.5
Alveolus, Infiltration Cellular, Histiocyte																										3 2.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										2 2.0
Nerve, Atrophy																										3 1.0
Olfactory Epithelium, Degeneration																										11 1.4

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DAY ON TEST	0 0																								* TOTALS
	7 7 7 7 6 5 7 7 6 7 7 7 7 7 7 7 6 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 9 9 3 3 5 3 3 3 3 3 3 3 6 3 3 1 3 3 3																								
	1 2 1 1 5 7 2 0 4 0 1 0 1 2 2 2 1 1 8 2 1 4 1 2 2																								
B6C3F1 MICE MALE	0 0																								
75 MG/KG	0 0																								
	1 1																								
	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																								

Olfactory Epithelium, Metaplasia	1																								3 1.0
Respiratory Epithelium, Hyperplasia	1 1 1 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1																								42 1.2
Trachea	+ +																								50

SPECIAL SENSES SYSTEM

Eye	+ +																								50
Cornea, Inflammation	2																								1 2.0
Harderian Gland	+ +																								50
Infiltration Cellular, Mononuclear Cell	1 1																								23 1.0
Epithelium, Hyperplasia	1 1																								1 2.0
Lacrimal Gland																									1

URINARY SYSTEM

Kidney	+ +																								50
Cyst	1																								4 1.3
Glomerulopathy, Hyaline	1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								30 1.1
Metaplasia, Osseous	2																								2 1.5
Mineralization	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1																								41 1.1
Nephropathy	1 2 1 3 2 1 1 1 1 3 2 1 2 1 1 2 1 1 2 1 2 3 2 1 1																								49 1.4
Pigmentation	3																								2 3.0
Glomerulus, Congestion	1 1 1 1 1																								17 1.4
Renal Tubule, Hyperplasia	1 2																								1 2.0

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DAY ON TEST	0 0																							
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 3 7 7																							
B6C3F1 MICE MALE 150 MG/KG	1 3																							
	6 0 1 2 2 1 1 2 2 0 2 2 0 2 2 0 2 1 8 0 2 0 2 2 0																							
ANIMAL ID	0 0																							
	0 0																							
150 MG/KG	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																							
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 Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus																		X	X	X					X
Clear Cell Focus		X	X	X		X	X		X	X	X	X	X					X	X	X				X	X
Eosinophilic Focus	X	X		X		X	X		X	X	X	X	X											X	X
Fatty Change, Focal	1			1		1				1	2	1	1	1			1	2					1		
Fatty Change, Diffuse																									3
Hematopoietic Cell Proliferation																									1
Hemorrhage																									1

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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	
	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	
B6C3F1 MICE MALE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
150 MG/KG	5	5	5	5	5	5	5	5	5	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	
Inflammation	1	1	1	1	1			1	2	1	1		1	1	1		1	1			1	1		1	1	
Mixed Cell Focus		X	X	X		X	X		X	X	X	X	X	X		X	X	X	X						X	
Necrosis				2	2			3	1	2	1	1	1	2	2		1	1			1			1		
Pigmentation																					1					
Tension Lipidosis																							X			
Bile Duct, Cyst		2						2	2				2					2				2				
Bile Duct, Fibrosis		1							2																	
Bile Duct, Hyperplasia			1	2	1		1	2	3	2	1	1	1	1	1		2	2		1	2	1		2		
Centrilobular, Hepatocyte, Hypertrophy	2	1	1	2	2	2	1		1	2	2	2	1	1	2	2	1	1	1	2	1	2		1	2	
Oval Cell, Hyperplasia				2	1	1	1	2	3	1	1	1		1	2		1	1		1	2	1		1	1	
Vein, Intravascular Hepatocyte	2	2	3	2	2	1	2	2	1	1	2	2	3	3	2	3	2	3		2	2	2	1	2	2	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cytoplasmic Alteration, Focal			1																							
Infiltration Cellular, Mononuclear Cell								1								3		1				1				
Acinus, Atrophy																3										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Infiltration Cellular, Mononuclear Cell	1	1	1	1	1			1	1	1		1	1	1		2		2		1	1	1		1		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia, Squamous	2	3		2		3		2		3			3		3	3	3	3	2	1	3	3	2	2	1	
Inflammation	2	2		2		3		2		2			3		2	2	2	3	2		2	2	2	1	1	
Ulcer	2	2		2		2				2			2			2	2	2								
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Erosion																								2		
Glands, Cyst						1						1														

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
 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 51

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

DAY ON TEST	0 0																								
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 3 7 7																								
B6C3F1 MICE MALE 150 MG/KG	1 3																								
	6 0 1 2 2 1 1 2 2 0 2 2 0 2 2 0 2 1 8 0 2 0 2 2 0																								
ANIMAL ID	0 0																								
	0 0																								
150 MG/KG	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																								
																									males (cont...)
																									1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

Seminal Vesicle

+ +

Testes

+ +

HEMATOPOIETIC SYSTEM

Bone Marrow
 Atrophy, Focal
 Hemorrhage
 Myelofibrosis

+ + + + + + + + + + + 2 + + + + + + + + + + + + +

Lymph Node

+ + + + + + + + + + +

Lymph Node, Mandibular
 Atrophy

+ + + + + + + + + + + 3 + + + + + + + + + 2 + + +

Lymph Node, Mesenteric
 Atrophy
 Hyperplasia, Lymphoid

+ + + + + | + | + + + + + + + + + + + + + + + 2 2

Spleen
 Atrophy
 Hematopoietic Cell Proliferation
 Lymphoid Follicle, Atrophy
 Red Pulp, Atrophy

+ + + + + + + + + + + + + + + + + 3 + + + + + + +

1 1 1 2 3 1 1 1 3 1 1 1 1 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
 | .. 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 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 3 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 1 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 0 1 2 2 1 1 2 2 0 2 2 0 2 2 0 2 1 8 0 2 0 2 2 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE MALE
150 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + |
| Atrophy | 4 | 2 | 2 | | 2 | 3 | 2 | 4 | | | 2 | | | | 3 | 2 | 3 | | | | 3 | 2 | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | 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 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Osteosclerosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 3 7 7 | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE MALE
150 MG/KG | 1 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 0 1 2 2 1 1 2 2 0 2 2 0 2 2 0 2 1 8 0 2 0 2 2 0 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 150 MG/KG | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 1 1 1 1 1 2 2 1 1 1 1 2 2 1 1 2 2 1 1 1 1 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve, Atrophy | 2 2 2 2 1 3 1 3 1 2 2 1 2 2 1 2 1 2 1 1 2 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 2 2 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 1 1 1 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Erosion | 2 2 1 3 3 2 3 2 1 2 1 2 1 1 2 2 2 2 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | |
| Glomerulopathy, Hyaline | 2 2 2 2 2 2 1 2 2 2 2 3 2 3 3 2 3 2 3 3 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 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
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TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| | 7 7 7 7 7 4 7 1 7 7 7 7 7 7 7 7 7 7 7 7 5 7 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE MALE
150 MG/KG | 3 3 3 3 3 7 3 4 3 3 3 3 1 3 3 3 3 0 3 3 7 3 3 4 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 1 1 1 3 1 1 2 0 1 0 8 1 1 2 1 2 2 0 0 0 2 0 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 MG/KG | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 7 7 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Gallbladder | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | 34 |
| Eosinophilic Focus | 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 36 |
| Fatty Change, Focal | 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 23 1.2 |
| Fatty Change, Diffuse | 4 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 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
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| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----|-----|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | | | |
| | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 4 | 3 | | | |
| | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 0 | 1 | 0 | 8 | 1 | 1 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | | | |
| B6C3F1 MICE MALE
150 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 | | | |
| | 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 | | 1 | | 1 | 1 | | 1 | | 2 | 1 | | | | 1 | 1 | | 1 | 1 | 1 | | | | | | 29 | 1.1 | | |
| Mixed Cell Focus | X | | X | X | X | | X | | X | X | X | | X | X | X | X | X | X | | X | X | | X | | 34 | | | |
| Necrosis | | 2 | | 2 | 1 | | 2 | | 3 | 1 | 1 | 1 | | | 2 | 3 | | | 1 | 1 | | | | | 26 | 1.6 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Tension Lipidosis | X | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Bile Duct, Cyst | | | | 1 | | | | | 1 | | | | 2 | 2 | 2 | 1 | | 3 | | 2 | | | | | 14 | 1.9 | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | |
| Bile Duct, Hyperplasia | 1 | 2 | 1 | 2 | 2 | | 1 | | | 1 | 1 | 2 | | 1 | 2 | 3 | 2 | | 1 | 2 | | 1 | 1 | | 35 | 1.5 | | |
| Centrilobular, Hepatocyte, Hypertrophy | 3 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | | 46 | 1.7 | | |
| Oval Cell, Hyperplasia | 1 | 2 | 1 | 2 | 2 | | 1 | | 2 | 1 | 1 | 1 | | 1 | 2 | 2 | 2 | | 1 | 1 | | 1 | 1 | | 36 | 1.4 | | |
| Vein, Intravascular Hepatocyte | 2 | 3 | 3 | 2 | 3 | | 2 | | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 47 | 2.1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cytoplasmic Alteration, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | | | | | | | | | | | | | | | | | 1 | | 1 | | | 7 | 1.3 | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 | 1 | 1 | | | 1 | | | | 1 | 1 | | | | | 1 | 1 | 1 | | 1 | 1 | 2 | 2 | 1 | 1 | 33 | 1.1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia, Squamous | 2 | 3 | 3 | 3 | 3 | | 3 | | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 41 | 2.6 | |
| Inflammation | 1 | 2 | 2 | 2 | 2 | | 1 | | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | | 2 | 2 | 3 | 2 | 1 | 2 | 39 | 2.1 | |
| Ulcer | | | | 3 | 2 | | | | | 1 | 1 | | 2 | 2 | 3 | | 2 | 2 | | | 2 | 2 | | 2 | 2 | 22 | 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Glands, Cyst | | | | 1 | | | | | | | 1 | | | | | | 1 | | | | | | | | 5 | 1.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 2) Mild 4) Marked
 Page 59

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 4 | 3 |
| | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 0 | 1 | 0 | 8 | 1 | 1 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 1 |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | | | | | 1 | 1 | | | | | 1 | 1 | | 1 | | 1 | | | | | 20 1.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | | | | | | | | | | | 1 | | | 1 | | 1 | 1 | | | | 7 1.1 |
| Inflammation | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | | | | | 4 1.3 |
| Duct, Ectasia | | | | 2 | | | 1 | | | | | 2 | | | | | | | | | | | | | 3 1.7 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Mononuclear Cell | | 1 | 1 | 1 | | | 1 | | 1 | 1 | | | | | | | | | | | 1 | | | | 14 1.1 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 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
 Page 61

| | 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 | 4 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 4 | 3 | |
| | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 0 | 1 | 0 | 8 | 1 | 1 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | |
| B6C3F1 MICE 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 | |
| 150 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 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | 1 | | 2 | | 1 | | 2 | 1 | | 1 | 4 | 2 | | | | | | | | | 1 | | | 22 1.4 |
| Nerve, Atrophy | 2 | 2 | 2 | 1 | 2 | | 2 | | 2 | 2 | 1 | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | 45 1.8 |
| Olfactory Epithelium, Degeneration | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | 1 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | | 46 1.7 |
| Olfactory Epithelium, Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Olfactory Epithelium, Metaplasia | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | 2 | 2 | 2 | 2 | | 3 | 3 | 1 | 1 | 2 | 2 | 3 | 1 | 3 | 1 | 1 | | 44 1.9 |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 |
| Respiratory Epithelium, Hyperplasia | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | 40 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 3 1.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 | | 1 | | 1 | | | 1 | | | | | | 1 | | | | 1 | | | | | | | 17 1.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Glomerulopathy, Hyaline | 2 | 2 | 2 | 2 | 1 | | 2 | | 3 | 2 | 1 | 2 | | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | 44 1.9 | |
| Infarct | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 1.0 |
| Metaplasia, Osseous | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | | 4 2.3 |
| Mineralization | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 38 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 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 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 | 4 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 4 | 3 | |
| | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 0 | 1 | 0 | 8 | 1 | 1 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | |
| B6C3F1 MICE MALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | |
| 150 MG/KG | 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 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nephropathy | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 49 1.9 |
| Glomerulus, Congestion | 2 | 3 | 3 | 1 | | | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | | 1 | 3 | | 1 | 44 2.0 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | | 1 | | 1 | 31 1.1 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

*** 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
 Page 65

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 6 7 7 7 7 7 7 6 7 7 7 7 5 6 7 7 5 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
0 MG/KG | 3 8 3 2 2 2 3 2 5 1 3 2 3 9 6 2 3 9 2 3 3 0 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 1 0 9 9 9 0 9 9 5 0 9 0 8 6 9 1 8 9 1 1 2 9 9 0 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | |
| Gallbladder | + | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | 2 1 1 2 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 1 2 1 2 2 2 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell 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 - 06

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Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

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 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 8 | 3 | 2 | 2 | 2 | 3 | 2 | 5 | 1 | 3 | 2 | 3 | 9 | 6 | 2 | 3 | 9 | 2 | 3 | 3 | 0 | 2 | 2 | 1 |
| | 0 | 1 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 5 | 0 | 9 | 0 | 8 | 6 | 9 | 1 | 8 | 9 | 1 | 1 | 2 | 9 | 9 | 0 |
| B6C3F1 MICE FEMALE
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 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Necrosis Tension Lipidosis | 3 | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | X | | X | | | | | | | | | | | | |
| Mesentery Necrosis | | | + | | | | | | + | | | | | | | | | | | | + | | | | + |
| Fat, Necrosis | | | 3 | | | | | | 3 | | | | | | | | | | | | 3 | | | | 3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cytoplasmic Alteration, Focal Infiltration Cellular, Mononuclear Cell Acinus, Atrophy | | | 1 | 1 | 1 | | | 1 | | | 2 | | | | | 1 | | | | 1 | | | | 2 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Squamous Inflammation | | | | | | | | | 2 | 1 | 2 | 2 | | | 2 | 1 | | | | 2 | | | | 2 | |
| Ulcer | 1 | | | | | | | 2 | | 2 | 1 | | | | 2 | | | | | 2 | | | | 2 | |
| | | | | | | | | 2 | | 2 | | | | 1 | | | | | | 3 | | | | 2 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glands, Cyst | | | | | | | | | | | 1 | | | | | | | | | 1 | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dysplasia | | | + | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

TDMS No. 99020 - 06
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 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| | 7 6 7 7 7 7 7 7 6 7 7 7 7 5 6 7 7 5 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 3 8 3 2 2 2 3 2 5 1 3 2 3 9 6 2 3 9 2 3 3 0 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 1 0 9 9 9 0 9 9 5 0 9 0 8 6 9 1 8 9 1 1 2 9 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 | females
(cont...) |
| 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 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Hyperplasia | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | M | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 6 7 7 7 7 7 7 6 7 7 7 7 5 6 7 7 5 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
0 MG/KG | 3 8 3 2 2 2 3 2 5 1 3 2 3 9 6 2 3 9 2 3 3 0 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 1 0 9 9 9 0 9 9 5 0 9 0 8 6 9 1 8 9 1 1 2 9 9 0 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

Infiltration Cellular, Mononuclear Cell 1
 Follicle, Cyst 3
 Follicular Cell, Hyperplasia 3

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Clitoral Gland | + + + + + + + + M M + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 3 3 4 3 3 3 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 3 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 4 4 3 4 3 1 3 3 2 1 4 2 4 | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 2 1 1 3 1 1 1 2 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 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 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 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 3 | 8 | 3 | 2 | 2 | 2 | 3 | 2 | 5 | 1 | 3 | 2 | 3 | 9 | 6 | 2 | 3 | 9 | 2 | 3 | 3 | 0 | 2 | 2 | 1 | |
| | | 0 | 1 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 5 | 0 | 9 | 0 | 8 | 6 | 9 | 1 | 8 | 9 | 1 | 1 | 2 | 9 | 9 | 0 | |
| B6C3F1 MICE 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 | 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 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 |

females
(cont...)

NERVOUS SYSTEM

Brain
 Infiltration Cellular, Mononuclear Cell +

RESPIRATORY SYSTEM

Lung
 Inflammation +
 Alveolar Epithelium, Hyperplasia 1 2 2

Nose
 Inflammation +
 Glands, Cyst 2
 Olfactory Epithelium, Metaplasia 1
 Respiratory Epithelium, Metaplasia

Trachea +

SPECIAL SENSES SYSTEM

Eye
 Cataract +
 Cornea, Inflammation 1 3
 Retina, Degeneration

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 71

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

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 | |
| 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 |
| 3 | 8 | 3 | 2 | 2 | 2 | 3 | 2 | 5 | 1 | 3 | 2 | 3 | 9 | 6 | 2 | 3 | 9 | 2 | 3 | 3 | 0 | 2 | 2 | 1 | 0 |
| 0 | 1 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 5 | 0 | 9 | 0 | 8 | 6 | 9 | 1 | 8 | 9 | 1 | 1 | 2 | 9 | 9 | 0 | 0 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
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 |
| | 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 | 2 |
| | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell Epithelium, Hyperplasia | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 2 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Infarct | | | 2 | | | | | | | | | | | | | | | | | 2 | | 2 | | |
| Metaplasia, Osseous | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | | 1 | | 1 | | | | | 1 | | | | | 1 | | | 2 | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Glomerulus, Congestion | | | | | | | | | | | | | | | | | | | | 2 | 1 | | | 1 |
| Papilla, Mineralization | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Mononuclear Cell | 1 | | 2 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | | | | 1 | 1 | | 2 | | 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 72

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 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 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 3 | 0 | 2 | 9 | 3 | 2 | 3 | 6 | 8 | 2 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 9 | 5 | 1 | 9 | 0 | 3 | 3 | 9 | 9 | 6 | 0 | 0 | 0 | 0 | 9 | |
| B6C3F1 MICE 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 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 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 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cyst | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Infiltration Cellular, Mononuclear Cell | | | | | 1 | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 30 1.0 | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | 3 | | | | | 2 | | 3 2.3 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 2.5 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 1.0 |
| Nephropathy | | | | | | | | | 1 | 1 | | 2 | | | | | 1 | 4 | | 1 | | 1 | | 13 1.4 |
| Pigmentation | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 1.0 |
| Glomerulus, Congestion | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | 5 1.2 |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | 3 | 3 | | | | | | 3 3.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Infiltration Cellular, Mononuclear Cell | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 37 1.2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 79

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

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

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 7 7 4 7 7 7 7 7 7 7 7 6 5 7 7 7 7 7 6 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 3 3 3 9 2 2 3 3 3 2 3 2 6 1 3 3 3 3 2 4 9 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 1 3 9 9 0 1 0 9 0 9 6 3 0 0 0 1 9 5 4 9 1 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 |
| | 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
Periesophageal Tissue, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder
Infiltration Cellular, Mononuclear Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + |
| Liver
Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | X | | | | | | X | | | | | | | | | | | | | X | |

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

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 9 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 6 | 1 | 3 | 3 | 3 | 3 | 2 | 4 | 9 | 2 | 3 | 2 | 3 |
| | 0 | 0 | 1 | 3 | 9 | 9 | 0 | 1 | 0 | 9 | 0 | 9 | 6 | 3 | 0 | 0 | 0 | 1 | 9 | 5 | 4 | 9 | 1 | 9 | 0 |
| B6C3F1 MICE 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Eosinophilic Focus | X | | X | | | | | | | | | | | | | | | | | | | X | X | | | |
| Fatty Change, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fatty Change, Diffuse | 1 | 1 | | | | 1 | 1 | 1 | | 1 | 1 | | | 1 | 1 | 2 | 1 | 1 | | 2 | | 1 | 1 | | | |
| Inflammation | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | | 1 | 1 | 1 | |
| Mixed Cell Focus | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | X | | | | | | | | | | | | | | | | X | |
| Centrilobular, Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vein, Intravascular Hepatocyte | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Mesentery | | | + | | | | + | + | | | | + | + | | | | | | + | + | | | | + | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | 3 | | | | 3 | 3 | | | | 3 | | | | | | | | 3 | 3 | | | | 3 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cytoplasmic Alteration, Focal | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | 1 | 1 | | 1 | | | | 1 | | | 1 | | | | | | | 1 | | | 1 | | | | |
| Acinus, Atrophy | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Mononuclear Cell | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | | | | | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | 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 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| | 7 7 7 4 7 7 7 7 7 7 7 7 6 5 7 7 7 7 7 6 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
37.5 MG/KG | 3 3 3 9 2 2 3 3 3 2 3 2 6 1 3 3 3 3 2 4 9 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 1 3 9 9 0 1 0 9 0 9 6 3 0 0 0 0 1 9 5 4 9 1 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 37.5 MG/KG | 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 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...)

Glands, Cyst
 Tooth
 Dysplasia
 Peridental Tissue, Inflammation

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Hyperplasia | 2 3 2 1 3 2 2 3 2 3 2 1 2 2 3 2 2 2 2 2 2 1 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + M + + + + + + + M + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| | 7 7 7 4 7 7 7 7 7 7 7 6 5 7 7 7 7 7 6 6 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 3 3 3 9 2 2 3 3 3 2 3 2 6 1 3 3 3 3 2 4 9 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 1 3 9 9 0 1 0 9 0 9 6 3 0 0 0 1 9 5 4 9 1 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 |
| | 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 | 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...) |

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | 4 | | | | | | | | | | | | 3 | | | | | | 3 | | | | | |
| Cyst | | | | | | | 2 | 1 | | | | | | | | | | | | | | | 2 | | 4 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Endometrium, Hyperplasia, Cystic | 2 | 2 | 2 | | 2 | 1 | | | | 1 | 1 | | 1 | | | | | | 2 | 4 | | 4 | 4 | | 2 | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
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TDMS No. 99020 - 06
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 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

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Pulegone
 CAS Number: 89-82-7

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 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| | 7 7 7 4 7 7 7 7 7 7 7 7 6 5 7 7 7 7 7 6 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
37.5 MG/KG | 3 3 3 9 2 2 3 3 3 2 3 2 6 1 3 3 3 3 2 4 9 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 1 3 9 9 0 1 0 9 0 9 6 3 0 0 0 1 9 5 4 9 1 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 37.5 MG/KG | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 |

females
(cont...)

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 2 2 3 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 2 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 1 2 1 2 1 1 2 1 1 1 1 2 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 2 2 2 2 2 4 2 3 2 2 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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Pulegone
 CAS Number: 89-82-7

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 First Dose M/F: 04/15/03 / 04/14/03
 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 | |
| 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 0 | |
| 3 | 3 | 3 | 9 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 6 | 1 | 3 | 3 | 3 | 3 | 2 | 4 | 9 | 2 | 3 | 2 | 3 | 0 | |
| 0 | 0 | 1 | 3 | 9 | 9 | 0 | 1 | 0 | 9 | 0 | 9 | 6 | 3 | 0 | 0 | 0 | 1 | 9 | 5 | 4 | 9 | 1 | 9 | 0 | 0 | |
| B6C3F1 MICE 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 | |
| | 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 | 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 | |

Skin +

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Lung +
 Inflammation 1 1 1 1
 Alveolar Epithelium, Hyperplasia

Nose +
 Inflammation
 Nerve, Atrophy 2
 Olfactory Epithelium, Degeneration 3 2 1
 Olfactory Epithelium, Metaplasia 1

Trachea +

SPECIAL SENSES SYSTEM

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

CAS Number: 89-82-7

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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 7 4 7 7 7 7 7 7 7 7 6 5 7 7 7 7 7 6 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 3 3 3 9 2 2 3 3 3 2 3 2 6 1 3 3 3 3 2 4 9 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 1 3 9 9 0 1 0 9 0 9 6 3 0 0 0 1 9 5 4 9 1 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
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 6 6 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye Atrophy | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland Infiltration Cellular, Mononuclear Cell | +
1 | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Glomerulopathy, Hyaline Infarct | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic Glomerulus, Congestion | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Dilatation | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | 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 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

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 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 4 | 0 | 7 | 2 | 2 | 31 |
| 9 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 1 | 0 | 1 | 1 | 9 | 9 | 0 | 4 | 0 | 9 | 0 | 0 | 6 | 5 | 9 | 9 | 40 | |
| B6C3F1 MICE FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37.5 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | X | | | | | | | | | | X | | | | | | | X | X | 6 | |
| Eosinophilic Focus | X | X | | | | | | | | | | | | | X | | | | | | | | | | 7 | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Fatty Change, Diffuse | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 1 | 1.5 | | |
| Inflammation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | | 2 | 1 | 31 | | |
| Mixed Cell Focus | | | | | | | X | X | | X | | | X | | | | | | | | X | | X | 1.1 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | 4 | | |
| Tension Lipidosis | X | | | | | X | | | | | | | | | | | | | | | X | | | 2.0 | | |
| Centrilobular, Hepatocyte, Hypertrophy | | | | | | | | | | | | | | 2 | | 1 | | | | 1 | | | | 5 | | |
| Vein, Intravascular Hepatocyte | | | | 1 | | | | | | | | | | | | | | | | | | | | 1.3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 12 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cytoplasmic Alteration, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | | | | 1 | 1 | 1 | | | | 2 | 3 | 1 | | | | 1 | | | | | 1.5 | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1.2 | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | 2 | 1 | | | | | 1 | | 2 | 1 | | | | | | 1 | | 1 | | | 2 | 1 | | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.3 | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 6 7 5 7 7
2 3 3 3 3 3 2 3 2 3 3 3 3 2 2 3 2 3 2 3 4 0 7 2 2
9 0 0 0 0 0 9 0 9 1 0 1 1 9 9 0 4 0 9 0 0 6 5 9 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 37.5 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 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 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-------|
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 1.7 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 2.0 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 1.8 |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Ovary | + + + + + + + + + + + + M + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 10 3.3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 7 2.4 |
| Uterus | + + + + + + + + + + + + M + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Endometrium, Hyperplasia, Cystic | 1 2 3 1 4 4 4 4 3 3 1 4 1 4 1 4 4 3 | | | | | | | | | | | | | | | | | | | | | | | | 32 | 2.6 |

* .. 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
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 1-4 .. Lesion qualified as:
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TDMS No. 99020 - 06

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Route: GAVAGE

Species/Strain: MICE/B6C3F1

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Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 6 7 5 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 2 3 3 3 3 3 2 3 2 3 3 3 3 2 2 3 2 3 2 3 4 0 7 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 0 0 0 0 0 9 0 9 1 0 1 1 9 9 0 4 0 9 0 0 6 5 9 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 |
| | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | |

Skin + 50

MUSCULOSKELETAL SYSTEM

Bone + 50

NERVOUS SYSTEM

Brain + 50

RESPIRATORY SYSTEM

Lung + 50

Inflammation 4 1.0
Alveolar Epithelium, Hyperplasia 2 1 1 3 1.3

Nose + 50

Inflammation 1 1 1.0
Nerve, Atrophy 1 2.0
Olfactory Epithelium, Degeneration 1 2 5 1.8
Olfactory Epithelium, Metaplasia 1 2 1.0

Trachea + 50

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
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 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 5 7 7 7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 7 7 7 6 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 4 3 2 3 2 3 2 2 3 8 2 3 3 3 2 3 3 2 3 3 3 6 1 3 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 0 9 1 9 1 9 9 0 4 9 0 1 1 9 0 0 9 0 0 0 7 4 0 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
75 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Gallbladder | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| B6C3F1 MICE FEMALE
75 MG/KG | 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 |
| ANIMAL ID | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Hypertrophy | 1 | | 1 | | 1 | 1 | 1 | 1 | | | | | | | | | 1 | 1 | | | | | | | | |
| Oval Cell, Hyperplasia | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Vein, Intravascular Hepatocyte | 1 | 1 | 1 | | 1 | | | | | | | 2 | 2 | | | | 1 | 1 | 1 | 1 | | | 1 | 1 | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | + | | | | | | | | | | | | | + | | | + | + | + | |
| | | | | | | | 3 | | | | | | | | | | | | | 3 | | | 3 | 3 | 3 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | 1 | 1 | | | | | | | 1 | | | | | 1 | 1 | 1 | | | 1 | | | 1 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | 1 | 1 | | 1 | | | | 2 | 1 | 1 | | | | 1 | 1 | 1 | 2 | | | 1 | | 2 | 1 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | 1 | | | 3 | | | | 3 | | | | | | | | | | | | 1 | | | |
| Ulcer | | | | 1 | | | 3 | | | | 2 | | | | | | | | | | | | | | | |
| | | | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glands, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | + | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 4 | | | | | | | | | | | | | | | | | | | |

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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 5 7 7 7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 7 7 6 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
75 MG/KG | 4 3 2 3 2 3 2 2 3 8 2 3 3 3 2 3 3 2 3 3 3 6 1 3 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 0 9 1 9 1 9 9 0 4 9 0 1 1 9 0 0 9 0 0 0 7 4 0 9 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 2 2 2 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel Mineralization | + | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Hyperplasia | 1 3 2 2 2 1 3 2 2 1 2 2 2 2 2 2 1 3 2 2 2 3 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + + + + M M + + + + + + + + M + + + + + + + M M + + | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | 2 3 | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 5 7 7 7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 7 7 6 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
75 MG/KG | 4 3 2 3 2 3 2 2 3 8 2 3 3 3 2 3 3 2 3 3 3 6 1 3 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 0 9 1 9 1 9 9 0 4 9 0 1 1 9 0 0 9 0 0 0 7 4 0 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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
Infiltration Cellular, Mononuclear Cell

+ +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Infiltration Cellular, Mononuclear Cell
Inflammation

+ + + + + + + + + + + + M + + + + + + + + + + + + +
2
2

Ovary
Angiectasis
Atrophy
Cyst

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

Uterus
Endometrium, Hyperplasia, Cystic

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

HEMATOPOIETIC SYSTEM

Bone Marrow
Atrophy
Hyperplasia

+
3

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

TDMS No. 99020 - 06

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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 7 7 7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 7 7 6 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 4 3 2 3 2 3 2 2 3 8 2 3 3 3 2 3 3 2 3 3 3 6 1 3 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 0 9 1 9 1 9 9 0 4 9 0 1 1 9 0 0 9 0 0 7 4 0 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 | |
| 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 | |
| | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosclerosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Cranium, Myelofibrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | + | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hippocampus, Gliosis | 2 | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 3 1 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 2 2 1 2 1 1 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia | 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 7 7 7 7 7 7 7 7 5 7 7 6 7 7 7 7 7 7 7 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 4 3 2 3 2 3 2 2 3 8 2 3 3 3 2 3 3 2 3 3 3 6 1 3 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 0 9 1 9 1 9 9 0 4 9 0 1 1 9 0 0 9 0 0 0 7 4 0 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 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 |
| | 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...)

Trachea +

SPECIAL SENSES SYSTEM

Eye +
 Atrophy 3
 Choroid, Sclera, Inflammation

Harderian Gland +
 Infiltration Cellular, Mononuclear Cell 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1

URINARY SYSTEM

Kidney +
 Cyst
 Glomerulopathy, Hyaline 1 1 1 1 1 1 1 1
 Infarct 3 1 1 1 1 1 1 1
 Metaplasia, Osseous 1 2
 Mineralization 1
 Nephropathy 2 1 1 1 2 1
 Vacuolization Cytoplasmic
 Glomerulus, Congestion 1 1 1 1 1
 Papilla, Necrosis 2 1

Urinary Bladder +
 Infiltration Cellular, Mononuclear Cell 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 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
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 Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
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 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 5 7 7 7 7 7 7 7 2 6 7 7 7 7 7 7 7 6 4 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
75 MG/KG | 3 3 4 3 3 2 2 3 3 0 6 4 2 2 3 3 3 3 2 3 7 3 3 2 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 4 1 0 9 9 0 1 1 8 2 9 9 1 0 0 1 9 0 7 9 1 9 2 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 2 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 4 4 4 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|---|-----|-----|-----|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Gallbladder | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.3 | | |
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | X | X | 23 | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | X | X | 10 | | |
| Fatty Change, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 20 | 1.2 | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 1 | 34 | 1.4 |
| Inflammation | 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1 | 1 | 14 | 1.0 | |
| Mixed Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | X | X | 16 | | |
| Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 4 | 2.5 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * 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 | |
| | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 6 | |
| | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 3 | 0 | 6 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 7 | 3 | 3 | 2 | |
| | 0 | 0 | 4 | 1 | 0 | 9 | 9 | 0 | 1 | 1 | 8 | 2 | 9 | 9 | 1 | 0 | 0 | 1 | 9 | 0 | 7 | 9 | 1 | 9 | |
| B6C3F1 MICE 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 | |
| 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 | |
| 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 | 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 | |
| Tension Lipidosis | | | | | | | | | | | X | | | | X | | | | X | | X | | | 4 | |
| Bile Duct, Cyst | | | | | 2 | 2 | | | | | | | | | 2 | | | | | 2 | | | | 4 2.0 | |
| Bile Duct, Hyperplasia | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | 2 1.0 | |
| Centrilobular, Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 1.1 | |
| Oval Cell, Hyperplasia | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | 3 1.3 | |
| Vein, Intravascular Hepatocyte | 1 | | | 1 | 1 | | 1 | | | | 1 | 1 | | | 1 | | | 1 | | | 1 | | | 20 1.1 | |
| Mesentery | | | | | | + | | | | + | | + | | + | | | | | | | + | | | 11 | |
| Fat, Necrosis | | | | | | 3 | | | | 3 | | 3 | | 3 | | | | | | | | | | 10 3.0 | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | | 1 | 1 | | | | 1 | | | | | 2 | | 2 | 1 | | | | | | 15 1.1 | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | 2 | 1 | 1 | | | | 1 | 2 | | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 28 1.2 | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Squamous | | 1 | 2 | | | | | 3 | | | | | 2 | | 2 | 1 | | | | | | | | 10 1.9 | |
| Inflammation | | | 2 | | | | | 2 | | | | | | | 1 | 2 | | | | | | | | 7 1.9 | |
| Ulcer | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | 4 2.0 | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Glands, Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2 2.5 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
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| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 7 7 5 7 7 7 7 7 7 7 2 6 7 7 7 7 7 7 7 6 4 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 3 3 4 3 3 2 2 3 3 0 6 4 2 2 3 3 3 3 2 3 7 3 3 2 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 4 1 0 9 9 0 1 1 8 2 9 9 1 0 0 1 9 0 7 9 1 9 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 | |
| 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|--------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Atrophy | | 3 | 3 | | 3 | 3 | 4 | 4 | | | | 4 | | | 4 | | | 3 | 4 | | | | | 3 | | | 24 3.5 | |
| Cyst | | | | | | | | 2 | | | | | 2 | 2 | | | | | | 2 | | | | | | | 9 2.1 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Endometrium, Hyperplasia, Cystic | | | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 4 | 2 | | 1 | 1 | 2 | 1 | | | 1 | 2 | 2 | 4 | 40 2.6 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia | | | | | | | | 3 | | | | | | | | | | | | | | | | 2 | 2 | | | 4 2.5 |

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

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| | 7 7 5 7 7 7 7 7 7 7 2 6 7 7 7 7 7 7 6 4 7 7 6
3 3 4 3 3 2 2 3 3 0 6 4 2 2 3 3 3 3 2 3 7 3 3 2 6
0 0 4 1 0 9 9 0 1 1 8 2 9 9 1 0 0 1 9 0 7 9 1 9 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
75 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 2 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------|---|-------|---------|---------------|
| Myelofibrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 2 | 1 | 17 1.6 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | + | | | + | 5 |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | 49 |
| Hyperplasia, Lymphoid | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.5 |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | 1 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 1 1 1 | 2 | 1 1 2 | 3 1 2 | 25 1.4 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 1.9 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 1 | 3 1.7 |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | 49 |
| Atrophy | 2 2 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 3 2 | 4 2 4 4 | 20 2.7 |
| Hyperplasia, Lymphoid | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 5 7 7 7 7 7 7 7 2 6 7 7 7 7 7 7 6 4 7 7 6 | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
75 MG/KG | 3 3 4 3 3 2 2 3 3 0 6 4 2 2 3 3 3 3 2 3 7 3 3 2 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 4 1 0 9 9 0 1 1 8 2 9 9 1 0 0 1 9 0 7 9 1 9 2 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Osteosclerosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cranium, Myelofibrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hippocampus, Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|----|-----|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2 | 2.5 |
| Mineralization | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | 1.5 |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 1.8 |
| Nerve, Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Olfactory Epithelium, Degeneration | 2 1 1 1 2 3 2 2 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | 1.6 |
| Olfactory Epithelium, Metaplasia | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 1.8 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 107

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 5 7 7 7 6 7 7 7 7 7 5 5 7 7 7 7 7 7 0 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 2 9 2 2 2 7 2 2 3 3 3 9 6 3 3 3 3 3 2 0 6 2 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 1 9 9 9 0 9 9 0 0 0 6 6 1 0 0 1 0 9 2 6 9 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 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 |
| | 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 |
| | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | M | M | + | M | + | M | + |
| Pituitary Gland Angiectasis Cyst Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Thyroid Gland Follicular Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland Infiltration Cellular, Mononuclear Cell Inflammation | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 4 | 4 | 4 | 4 | 4 | | 3 | 4 | 4 | 4 | 4 | 4 | | | | 4 | 4 | 4 | 4 | 4 | | | | | 4 |

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

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 5 7 7 7 6 7 7 7 7 7 5 5 7 7 7 7 7 7 0 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 2 9 2 2 2 7 2 2 3 3 3 9 6 3 3 3 3 3 2 0 6 2 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 1 9 9 9 0 9 9 0 0 0 6 6 1 0 0 1 0 9 2 6 9 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 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 |
| | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyst | 2 | 2 | 3 | 2 | | | | | | | | | 2 | | | | | | | | | | | | 3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Endometrium, Hyperplasia, Cystic | | | 4 | 1 | 2 | 2 | 2 | | | | 4 | 4 | | 2 | 2 | 4 | 4 | 4 | 4 | | | | | 1 | 4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | 1 | 1 | | | | | | | | | | 2 | 1 | 2 | | | | | | 2 | | | 1 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | 2 | 2 | 2 | | 1 | 1 | 1 | 1 | 1 | 3 | | 1 | 1 | 1 | 1 | 2 | 1 | | 2 | | 2 | 2 | 1 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | 1 | | | | 2 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 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 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 6 | 7 | 7 | 7 | 7 |
| | 2 | 9 | 2 | 2 | 2 | 7 | 2 | 2 | 3 | 3 | 3 | 9 | 6 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 6 | 2 | 3 | 3 | 3 |
| | 9 | 1 | 9 | 9 | 9 | 0 | 9 | 9 | 0 | 0 | 0 | 6 | 6 | 1 | 0 | 0 | 1 | 0 | 9 | 2 | 6 | 9 | 0 | 0 | 0 |
| B6C3F1 MICE 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 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 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 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...)

Red Pulp, Atrophy

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 3 | | | | | | | | | | | | | | | | 2 | | | 2 | | | 2 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Osteosclerosis | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 115

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 5 7 7 7 6 7 7 7 7 7 5 5 7 7 7 7 7 7 0 6 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 2 9 2 2 2 7 2 2 3 3 3 9 6 3 3 3 3 3 2 0 6 2 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 1 9 9 9 0 9 9 0 0 0 6 6 1 0 0 1 0 9 2 6 9 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE 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 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 |
| | 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | 1 | 1 | | | | | 2 | | | | | | | | | | 1 | | | | | |
| Mediastinum, Serosa, Inflammation | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | 2 | 2 | | 2 | 2 | | 2 | | 2 | | | | 1 | 1 | | 3 | | 1 | | 3 | | 2 |
| Ulcer | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Nerve, Atrophy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | | 3 | 3 | 3 | 3 |
| Olfactory Epithelium, Degeneration | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 |
| Olfactory Epithelium, Metaplasia | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | | 3 | 3 | 3 | 3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Anterior Chamber, Inflammation | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Choroid, Sclera, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | 2 | | | | | | | | | 2 | | | |
| Cornea, Pigmentation | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Mononuclear Cell | 1 | | 1 | | | | | | | | 1 | 1 | | | | | | | 2 | | 1 | | 1 | 1 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

Date Report Requested: 04/23/2009
 Time Report Requested: 10:39:03
 First Dose M/F: 04/15/03 / 04/14/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|---|
| | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 6 | 7 | 7 | 7 | 7 |
| 2 | 9 | 2 | 2 | 2 | 7 | 2 | 2 | 3 | 3 | 3 | 9 | 6 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 6 | 2 | 3 | 3 | 3 | |
| 9 | 1 | 9 | 9 | 9 | 0 | 9 | 9 | 0 | 0 | 0 | 6 | 6 | 1 | 0 | 0 | 1 | 0 | 9 | 2 | 6 | 9 | 0 | 0 | 0 | |
| B6C3F1 MICE FEMALE
150 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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...) | |

Epithelium, Hyperplasia

2

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Glomerulopathy, Hyaline Infarct | 1 | | 1 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | | 2 | 2 | 2 | 1 | 1 |
| Metaplasia, Osseous Mineralization | | | 2 | | | | | | | 2 | | | | | | | | | | | | | | | |
| Nephropathy | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | 1 | | | | | 1 | 1 | | 1 | 1 | 1 | 1 |
| Glomerulus, Congestion | 1 | | 1 | | 2 | 2 | 1 | | 1 | 1 | 2 | | | 1 | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 2 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Mononuclear Cell | 2 | 2 | | | 1 | | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 2 | | 2 | | 1 | | | 1 | 2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 117

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99020 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone

CAS Number: 89-82-7

Date Report Requested: 04/23/2009

Time Report Requested: 10:39:03

First Dose M/F: 04/15/03 / 04/14/03

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 | |
| 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 0 |
| 7 | 0 | 8 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | 8 | 3 | 3 | 0 | 2 | 2 | 3 | 2 | 8 | 3 | 2 | 3 | 0 |
| 6 | 3 | 4 | 9 | 1 | 1 | 1 | 9 | 9 | 0 | 6 | 9 | 9 | 9 | 0 | 0 | 4 | 9 | 9 | 1 | 9 | 9 | 1 | 9 | 1 | 0 |
| B6C3F1 MICE FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 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 |
| 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 | 4 |
| 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 | 0 |
| Ulcer | 2 | | | | | 2 | | | | | | | | 1 | 2 | | 2 | | | | | | | | 10 2.0 |
| Stomach, Glandular
Glands, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tooth
Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | 2 | | | 1 | | | | 1 | | | | 1 | | | | | | | | | | | | 5 1.2 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mineralization | 2 | | | | | | | | 1 | | | 1 | | | | | | | | | | 2 | | | 8 1.9 |
| Necrosis | | | | | | | | | | | 3 | | | | | | | | | | | | | | 2 2.5 |
| Ventricle, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Inflammation | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 |
| Subcapsular, Hyperplasia | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 49 2.1 |

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

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 6 7 6 7 7 7 7 7 7 7 7 7 7 5 7 7 4 7 7 7 7 5 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
150 MG/KG | 7 0 8 2 3 3 3 2 2 3 1 2 2 8 3 3 0 2 2 3 2 8 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 3 4 9 1 1 1 9 9 0 6 9 9 9 0 0 4 9 9 1 9 9 1 9 1 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | 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 | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | 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 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | 7 2.4 |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Endometrium, Hyperplasia, Cystic | 2 4 3 4 4 3 4 3 2 2 3 4 3 1 4 1 4 2 4 3 | | | | | | | | | | | | | | | | | | | | | | | | 35 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia | 3 2 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | 5 2.6 |
| Myelofibrosis | 1 2 3 2 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | | 14 1.6 |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Hyperplasia, Lymphoid | 3 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Lymph Node, Mesenteric | + + + + + + + + + + + + + + + + M + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hematopoietic Cell Proliferation | 1 3 2 1 2 1 2 3 1 3 2 1 2 1 1 1 1 2 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 40 1.5 |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |

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

TDMS No. 99020 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pulegone
 CAS Number: 89-82-7

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 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 | |
| 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 0 |
| 7 | 0 | 8 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | 8 | 3 | 3 | 0 | 2 | 2 | 3 | 2 | 8 | 3 | 2 | 3 | 0 |
| 6 | 3 | 4 | 9 | 1 | 1 | 1 | 9 | 9 | 0 | 6 | 9 | 9 | 9 | 0 | 0 | 4 | 9 | 9 | 1 | 9 | 9 | 1 | 9 | 1 | 0 |
| B6C3F1 MICE 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 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 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--------------|
| Epithelium, Hyperplasia | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 1.8 |
|-------------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--------------|

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Glomerulopathy, Hyaline | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | | 2 | | | 1 | | 4 | | 3 | 1 | | 1 | 1 | 2 | 1 | 41 1.5 |
| Infarct | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Metaplasia, Osseous | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | | | 4 1.5 |
| Mineralization | | | | 1 | 1 | 1 | 1 | | 1 | | | | | | | | 1 | | | | 1 | | | 1 | | 20 1.0 |
| Nephropathy | 2 | 3 | 2 | 1 | | | 1 | 2 | 1 | | | 1 | 1 | | 1 | 1 | | | 2 | 1 | | | | 1 | | 25 1.2 |
| Glomerulus, Congestion | 3 | | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | 2 | 1 | | 1 | 1 | 2 | 1 | 37 1.3 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Mononuclear Cell | 2 | | 2 | 2 | | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | | | 1 | 2 | 1 | | 1 | | 2 | 1 | 30 1.4 | |

*** 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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