

**TDMS No.** 99007 - 06  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

**Date Report Requested:** 08/14/2008  
**Time Report Requested:** 12:25:59  
**First Dose M/F:** 05/12/03 / 05/12/03  
**Lab:** SRI

F1\_Rev.1\_M3

**C Number:** C99007B  
**Lock Date:** 08/29/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.0.0



DAY ON TEST	0 0																								
	7 7 7 6 7 7 7 7 7 7 7 7 7 6 7 6 7 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 7 3 3 3 3 3 3 2 3 3 3 3 8 3 3 2 3 3 2 3 3 3																								
	1 0 0 7 0 0 0 0 0 0 1 9 1 0 2 1 1 0 1 9 0 1 9 1 0 1																								
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	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	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...)

Necrosis, Focal	3			2																				
Hepatocyte, Vacuolization Cytoplasmic	1			1	2			2																
Kupffer Cell, Pigmentation				1			2																	
Mesentery	+						+																	
Fibrosis																								
Fat, Necrosis	3						2																	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acinus, Cytoplasmic Alteration							3																	
Acinus, Hyperplasia, Focal																								
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Lymphocyte													2											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic																	3							
Ulcer																	2							
Epithelium, Hyperplasia																	3							
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion							3																	
Glands, Cyst																			X					

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	1	1	2	2		1	1	1	1	1	1	2		2		1	2	1	1	2	1	1	2	1

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

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	7 7 7 6 7 7 7 7 7 7 7 7 7 6 7 6 7 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 7 3 3 3 3 3 3 2 3 3 3 3 8 3 3 2 3 3 2 3 3 3																								
	1 0 0 7 0 0 0 0 0 0 1 9 1 0 2 1 1 0 1 9 0 1 9 1 0 1																								
<b>B6C3F1 MICE MALE</b> <b>0 PPM</b>	0 0																								
	0 0																								
	0 0																								
	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2																								
	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 <b>males (cont...)</b>																								

Thrombosis  
 Artery, Inflammation, Chronic

**ENDOCRINE SYSTEM**

Adrenal Cortex	+ +																								
Hypertrophy, Focal	+ +																								
Capsule, Hyperplasia	1 1 1 2 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2																								
Adrenal Medulla	+ +																								
Islets, Pancreatic	+ +																								
Hyperplasia	+ +																								
Parathyroid Gland	+ +																								
Pituitary Gland	+ +																								
Pars Distalis, Cyst	+ +																								
Pars Distalis, Hyperplasia, Focal	+ +																								
Thyroid Gland	+ +																								
Follicle, Degeneration, Focal	+ +																								

**GENERAL BODY SYSTEM**

NONE

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	7 7 7 6 7 7 7 7 7 7 7 7 7 6 7 6 7 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 7 3 3 3 3 3 3 2 3 3 3 3 8 3 3 2 3 3 2 3 3 3																								
	1 0 0 7 0 0 0 0 0 0 1 9 1 0 2 1 1 0 1 9 0 1 9 1 0 1																								
<b>B6C3F1 MICE MALE</b> <b>0 PPM</b>	0 0																								
	0 0																								
	0 0																								
	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2																								
	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...)

**GENITAL SYSTEM**

Epididymis	+ +																								
Preputial Gland	+ +																								
Cyst	X X																								
Inflammation, Suppurative																									
Inflammation, Chronic																									
Prostate	+ +																								
Epithelium, Hyperplasia	2 2																								
Seminal Vesicle	+ +																								
Testes	+ +																								
Germinal Epithelium, Atrophy	3																								

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+ +																								
Angiectasis																									
Hyperplasia	2 2 2																								
Lymph Node																									
Iliac, Hemorrhage																									

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

**B6C3F1 MICE MALE**  
**0 PPM**

males  
(cont...)

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Hyperplasia, Histiocytic								1																				
Hyperplasia, Lymphoid														2														
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	1							3	1	1				1	2	3	2	3							2	1	2	2
Hyperplasia																												
Lymphoid Follicle, Hyperplasia															2													
Thymus	+	+	+	M	+	+	I	+	+	+	+	+	+	+	I	I	M	+	+	+	+	+	+	+	+	+	+	
Atrophy							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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic																											
Epidermis, Hyperplasia																											
Hair Follicle, Cyst																											

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cranium, Hyperostosis																											

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ANIMAL ID	3 3 3 7 3 3 3 3 3 3 2 3 3 3 3 8 3 3 2 3 3 2 3 3 3																								
	1 0 0 7 0 0 0 0 0 0 1 9 1 0 2 1 1 0 1 9 0 1 9 1 0 1																								
<b>B6C3F1 MICE MALE</b> <b>0 PPM</b>	0 0																								
	0 0																								
	0 0																								
	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2																								
	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...)

Eye Inflammation, Acute	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+
Harderian Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**URINARY SYSTEM**

Kidney Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Kidney Infarct					X																				
Kidney Infiltration Cellular, Lymphocyte Inflammation, Suppurative Metaplasia, Osseous					2																				
Kidney Nephropathy	2	1	1		2	2	3	1	2	2	1	2	2		2		2	2	1	2	2		1	2	1
Kidney Thrombosis																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+

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

Lymph Node, Mandibular	+	+	+	M	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	46
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	48
Hyperplasia, Histiocytic																									2 1.5
Hyperplasia, Lymphoid				3																		3			3 2.7
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation	1	1				3			1	1				2		2	1	1					2	23 1.7	
Hyperplasia			1		1																			2 1.0	
Lymphoid Follicle, Hyperplasia	2														2				3					4 2.3	
Thymus	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44	
Atrophy													4										3	3 3.0	

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	3
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic																									1 3.0
Epidermis, Hyperplasia																									1 2.0
Hair Follicle, Cyst																									1

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cranium, Hyperostosis				3																					1 3.0

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	0730	0770	0776	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		0777	
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>0 PPM</b>	7	7	7	6	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	7	7	7	4	7		
	3	3	3	6	3	3	3	3	2	3	2	3	5	3	3	0	2	3	3	3	3	3	9	2			
	0	1	0	4	0	0	2	0	9	1	9	0	0	2	0	5	9	1	0	0	0	0	6	9			
	.....																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	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		
	.....																										
Eye Inflammation, Acute	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	46
	.....																										
Harderian Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
	.....																										
<b>URINARY SYSTEM</b>																											
	.....																										
Kidney Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infarct	.....																										
Infiltration Cellular, Lymphocyte	.....																										
Inflammation, Suppurative	.....																										
Metaplasia, Osseous	.....																										
Nephropathy	1	1	1		1	2	1	1	2	1	2	1	2	1	2		1	1		1	1	1	1	1	2	42	1.5
Thrombosis	.....																										
	.....																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

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	7 7 6 7 7 7 7 6 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7																								
ANIMAL ID	3 0 3 3 3 3 1 7 0 2 2 3 2 3 3 2 3 5 3 2 2 2 3 3 3																								
	1 9 6 1 0 1 3 3 3 9 9 0 9 0 1 9 0 7 1 9 9 9 1 0 0																								
<b>B6C3F1 MICE MALE</b> <b>3000 PPM</b>	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 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	+ +																								
Gallbladder	+ A +																								
Intestine Large, Cecum	+ A + + + + + + A + + + + + + + + + + + + + + + + + +																								
Intestine Large, Colon	+ A + + + + + + A + + + + + + + + + + + + + + + + + +																								
Intestine Large, Rectum	+ A + + + + + + A + + + + + + + + + + + + + + + + + +																								
Intestine Small, Duodenum	+ A + + + + + + A + + + + + + + + + + + + A + + + + + + +																								
Intestine Small, Ileum	+ A + + + + + + A + + + + + + + + + + + + + + + + + +																								
Intestine Small, Jejunum Hyperplasia, Lymphoid	+ A + + + + + + A + + + + + + + + + + + + + + + + + + 2																								
Liver	+ +																								
Basophilic Focus	X																								
Clear Cell Focus	X X																								
Cyst	X X																								
Eosinophilic Focus	X X X X																								
Hematopoietic Cell Proliferation	X X X X																								
Hemorrhage	4																								
Hepatodiaphragmatic Nodule																									

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

DAY ON TEST	0																								
	7	7	6	7	7	7	7	6	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	
ANIMAL ID	0																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>3000 PPM</b>	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	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		

males (cont...)

Infiltration Cellular, Lymphocyte																								2
Infiltration Cellular, Mixed Cell																								1
Mixed Cell Focus	X																						X X	
Necrosis, Focal																								3
Tension Lipidosis																								1
Bile Duct, Hyperplasia																								2
Hepatocyte, Vacuolization	1	1																						2
Cytoplasmic Kupffer Cell, Pigmentation																								1
Mesentery																								+
Inflammation, Suppurative																								+
Fat, Necrosis																								2
Pancreas																								+
Acinus, Cytoplasmic Alteration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Salivary Glands																								+
Infiltration Cellular, Lymphocyte																								1
Stomach, Forestomach																								+
Ulcer																								2
Epithelium, Hyperplasia																								2
Stomach, Glandular																								+
Cyst																								X
Edema																								3

**CARDIOVASCULAR SYSTEM**

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

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 7 7 7 7 6 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7																								
ANIMAL ID	3 0 3 3 3 3 1 7 0 2 2 3 2 3 3 2 3 5 3 2 2 2 3 3 3																								
	1 9 6 1 0 1 3 3 3 9 9 0 9 0 1 9 0 7 1 9 9 9 9 1 0 0																								
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3000 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	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...)

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	2	1	1		1	2			1	1	1	1	1	1	1		1	2	2		1	1	1	1

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule				2																					
Hypertrophy, Focal				1	2								2					2		2			2	1	
Capsule, Hyperplasia	2	1	1	2	1	2	1	1		1	1	1	1	1	2	1	1		1	1	2	1		1	1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia					2									1						1				2	
Parathyroid Gland	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cyst					X																		X		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Follicle, Cyst									X	X															
Follicle, Degeneration, Focal																								1	

**GENERAL BODY SYSTEM**

NONE

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 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
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 2) Mild 4) Marked  
 Page 18

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 7 7 7 7 6 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7																								
ANIMAL ID	3 0 3 3 3 3 1 7 0 2 2 3 2 3 3 2 3 5 3 2 2 2 3 3 3																								
	1 9 6 1 0 1 3 3 3 9 9 0 9 0 1 9 0 7 1 9 9 9 1 0 0																								
<b>B6C3F1 MICE MALE</b> <b>3000 PPM</b>	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 6 6 6 6 6																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								

males  
(cont...)

**GENITAL SYSTEM**

Coagulating Gland  
 Inflammation, Suppurative

Epididymis  
 Cyst

Preputial Gland  
 Cyst  
 Hyperplasia  
 Inflammation, Suppurative  
 Inflammation, Chronic

Prostate  
 Inflammation, Suppurative  
 Inflammation, Chronic  
 Epithelium, Hyperplasia

Seminal Vesicle  
 Inflammation, Suppurative

Testes

.....																								
+ +																								
.....																								
+ +																								
X X																								
2																								
2																								
3																								
2 4																								
.....																								
+ +																								
.....																								
+ +																								
.....																								
+ +																								
.....																								

**HEMATOPOIETIC SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 M .. Missing tissue  
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TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 7 7 7 7 6 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 0 3 3 3 3 1 7 0 2 2 3 2 3 3 2 3 5 3 2 2 2 3 3 3																								
	1 9 6 1 0 1 3 3 3 9 9 0 9 0 1 9 0 7 1 9 9 9 9 1 0 0																								
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3000 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	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...)

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Depletion Cellular			2																					
Hyperplasia	1				1	1			4						2				1		2			
Lymph Node								+	+	+														
Pancreatic, Hemorrhage																								
Renal, Hemorrhage																								
Lymph Node, Mandibular	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Hyperplasia, Lymphoid																							3	
Lymph Node, Mesenteric	+	A	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+
Atrophy																								
Hemorrhage									2															
Hyperplasia, Lymphoid				2																			3	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy		3	3																					
Hematopoietic Cell Proliferation	1				1	1	1	2	2						3		3	1	2		2		1	1
Lymphoid Follicle, Hyperplasia															2						3			
Thymus	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	I	I	I	M	+	+	+	+
Atrophy		4						3																1
Hyperplasia, Lymphoid															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
---------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 7 7 7 7 6 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7																								
ANIMAL ID	3 0 3 3 3 3 1 7 0 2 2 3 2 3 3 2 3 5 3 2 2 2 3 3 3																								
	1 9 6 1 0 1 3 3 3 9 9 0 9 0 1 9 0 7 1 9 9 9 1 0 0																								
<b>B6C3F1 MICE MALE</b> <b>3000 PPM</b>	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 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...)

Skin	+																								
Inflammation, Chronic																									
Ulcer																									
Epidermis, Hyperplasia	4																								

**MUSCULOSKELETAL SYSTEM**

Bone	+																								
Maxilla, Fibrosis	3																								
Skeletal Muscle	+																								

**NERVOUS SYSTEM**

Brain	+																								
Peripheral Nerve	+																								
Spinal Cord																									

**RESPIRATORY SYSTEM**

Lung	+																								
Edema																									

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 Page 21

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 7 7 7 7 6 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7																								
ANIMAL ID	3 0 3 3 3 3 1 7 0 2 2 3 2 3 3 2 3 5 3 2 2 2 3 3 3																								
	1 9 6 1 0 1 3 3 3 9 9 0 9 0 1 9 0 7 1 9 9 9 1 0 0																								
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3000 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	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...)

Alveolar Epithelium, Hyperplasia	3																								2
Nose Glands, Degeneration, Cystic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**SPECIAL SENSES SYSTEM**

Eye Cornea, Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland Hyperplasia, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lacrimal Gland	+																								

**URINARY SYSTEM**

Kidney Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hydronephrosis				X																						
Infarct																										
Infiltration Cellular, Lymphocyte Inflammation, Suppurative																										
Metaplasia, Osseous																										
Nephropathy	1	2		1	1	1	1				1	1	1	1	2	2	1	1	2	2	1	1	1	1	2	1

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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		0		
	7	7	5	7	7	7	7	7	7	7	7	7	7	6	7	7	6	7	7	6	6	5	7	7	7			
	3	2	6	3	2	2	2	3	2	3	2	2	3	7	2	3	8	3	3	2	2	5	3	3	3			
	1	9	3	2	9	9	9	0	9	1	9	9	0	7	9	0	0	0	0	4	5	5	0	2	1			
B6C3F1 MICE MALE 3000 PPM	0																								* TOTALS			
	0																									* TOTALS		
	0																										* TOTALS	
	0																											* TOTALS
	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			

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy	1	2		1		2	2	2	2	1	1	1	1	2	1	1	1	1	2		1	2	2	1	2	42 1.3

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Accessory Adrenal Cortical Nodule																												
Hypertrophy, Focal		2				2	1	1					1	2		1	2						2	1	18 1.6			
Capsule, Hyperplasia	1	2				1	1	1	1					2		1	1	1	1			1		1	2	1	37 1.2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hyperplasia		2	2			1		2								2	2						2	1	12 1.7			
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	M	45	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Pars Distalis, Cyst																										2		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Follicle, Cyst																										2		
Follicle, Degeneration, Focal			2			1		1	1													1				6 1.2		

**GENERAL BODY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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 Page 26



TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

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First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

	DAY ON TEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754		0755	0756	0757	0758	0759	0760	0761	0762	0763	0764	0765	0766	0767	0768	0769	0770	0771	0772	0773	0774	0775	0776	0777	0778	0779	0780	0781	0782	0783	0784	0785	0786	0787	0788	0789	0790	0791	0792	0793	0794	0795	0796	0797	0798	0799	0800	0801	0802	0803	0804	0805	0806	0807	0808	0809	0810	0811	0812	0813	0814	0815	0816	0817	0818	0819	0820	0821	0822	0823	0824	0825	0826	0827	0828	0829	0830	0831	0832	0833	0834	0835	0836	0837	0838	0839	0840	0841	0842	0843	0844	0845	0846	0847	0848	0849	0850	0851	0852	0853	0854	0855	0856	0857	0858	0859	0860	0861	0862	0863	0864	0865	0866	0867	0868	0869	0870	0871	0872	0873	0874	0875	0876	0877	0878	0879	0880	0881	0882	0883	0884	0885	0886	0887	0888	0889	0890	0891	0892	0893	0894	0895	0896	0897	0898	0899	0900	0901	0902	0903	0904	0905	0906	0907	0908	0909	0910	0911	0912	0913	0914	0915	0916	0917	0918	0919	0920	0921	0922	0923	0924	0925	0926	0927	0928	0929	0930	0931	0932	0933	0934	0935	0936	0937	0938	0939	0940	0941	0942	0943	0944	0945	0946	0947	0948	0949	0950	0951	0952	0953	0954	0955	0956	0957	0958	0959	0960	0961	0962	0963	0964	0965	0966	0967	0968	0969	0970	0971	0972	0973	0974	0975	0976	0977	0978	0979	0980	0981	0982	0983	0984	0985	0986	0987	0988	0989	0990	0991	0992	0993	0994	0995	0996	0997	0998	0999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1693	1694	1695	1696	1697	1698	1699	1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780	1781	1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								* TOTALS
	7 7 5 7 7 7 7 7 7 7 7 7 6 7 7 6 7 7 6 6 5 7 7 7																								
ANIMAL ID	3 2 6 3 2 2 2 3 2 3 2 2 3 7 2 3 8 3 3 2 2 5 3 3 3																								* TOTALS
	1 9 3 2 9 9 9 0 9 1 9 9 0 7 9 0 0 0 0 4 5 5 0 2 1																								
<b>B6C3F1 MICE MALE</b>	0 0																								
<b>3000 PPM</b>	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																								
	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																								

Skin	+ +																								50	
Inflammation, Chronic																									3	1 3.0
Ulcer																									3	1 3.0
Epidermis, Hyperplasia																										1 4.0

**MUSCULOSKELETAL SYSTEM**

Bone	+ +																								50	
Maxilla, Fibrosis																										1 3.0
Skeletal Muscle																										1

**NERVOUS SYSTEM**

Brain	+ +																								50	
Peripheral Nerve																										3
Spinal Cord																										2

**RESPIRATORY SYSTEM**

Lung	+ +																								50	
Edema																									2	1 2.0

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



TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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	5	7	7	7	7	7	7	7	7	7	7	7	6	7	7	6	7	7	6	6	5	7	7	7	
3	2	6	3	2	2	2	3	2	3	2	2	3	7	2	3	8	3	3	2	2	5	3	3	3		
1	9	3	2	9	9	9	0	9	1	9	9	0	7	9	0	0	0	0	4	5	5	0	2	1		
<hr/>																										
<b>B6C3F1 MICE MALE</b> <b>3000 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	
	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	<b>* TOTALS</b>	
<hr/>																										
Bilateral, Hydronephrosis																				4	<b>1 4.0</b>					
Papilla, Necrosis																				2	<b>1 2.0</b>					
<hr/>																										
Ureter																				+	<b>1</b>					
<hr/>																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Calculus Gross Observation																				X	<b>1</b>					
Infiltration Cellular, Lymphocyte																					<b>1 2.0</b>					
Inflammation, Chronic																				3	<b>1 3.0</b>					
Transitional Epithelium, Hyperplasia																				3	<b>1 3.0</b>					

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	ANIMAL ID																									males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	7	7	7	5	7	7	7	7	6	7	7	7	7	7	6	5	7	7	7	7	7	7	7	7	0
2	3	2	2	5	3	3	3	3	6	3	3	3	3	3	2	5	3	3	2	2	3	3	3	3	2	0
9	0	9	9	1	0	0	0	1	6	1	0	1	0	1	4	1	0	1	9	9	2	1	0	9	0	0
.....																										
B6C3F1 MICE MALE 9000 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1	1	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	2

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid																									
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus																								X	
Clear Cell Focus																								X	
Eosinophilic Focus			X											X	X									X	
Fibrosis					X		X	X	X		X			X							X	X			
Hematopoietic Cell Proliferation									2																
Infiltration Cellular, Lymphocyte																									1
Infiltration Cellular, Mixed Cell																									1

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
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 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 5 7 7 7 7 6 7 7 7 7 7 6 5 7 7 7 7 7 7 7 7																								
ANIMAL ID	2 3 2 2 5 3 3 3 3 6 3 3 3 3 3 2 5 3 3 2 2 3 3 3 2																								
	9 0 9 9 1 0 0 0 1 6 1 0 1 0 1 4 1 0 1 9 9 2 1 0 9																								
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>9000 PPM</b>	0	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...)

Mixed Cell Focus	X								X																X
Necrosis, Focal									2											1					
Hepatocyte, Hyperplasia, Focal																									
Hepatocyte, Hypertrophy																									
Hepatocyte, Vacuolization Cytoplasmic	1	1									1	2		1			2	3							
Hepatocyte, Vacuolization Cytoplasmic, Focal																									2
Kupffer Cell, Pigmentation									2																
Mesentery																									
Fibrosis									3																
Inflammation, Suppurative											2														
Fat, Necrosis												3							3						3
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									1
Cyst			X																						
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Lymphocyte																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia																									2
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									X

**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. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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

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

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule																										
Hypertrophy																										
Hypertrophy, Focal	2					2					1						1	3	2	1				1		
Capsule, Hyperplasia	1	1	1	1		1	1		1	1	1	1	2			2	1	1	1	1	1	1	1	1		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	2						2	2	2	2							2								2	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst									X	X																
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cyst																							X			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
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 2) Mild 4) Marked





TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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

**B6C3F1 MICE MALE**  
**9000 PPM**

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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																										

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral Nerve																										
Spinal Cord																										

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte																										
Alveolar Epithelium, Hyperplasia				1																						

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 5 7 7 7 7 6 7 7 7 7 7 6 5 7 7 7 7 7 7 7 7																								
ANIMAL ID	2 3 2 2 5 3 3 3 3 6 3 3 3 3 3 2 5 3 3 2 2 3 3 3 2																								
	9 0 9 9 1 0 0 0 1 6 1 0 1 0 1 4 1 0 1 9 9 2 1 0 9																								
<b>B6C3F1 MICE MALE</b> <b>9000 PPM</b>	0 0																								
	0 0																								
	1 1																								
	0 0																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5																								

males  
(cont...)

Nose Inflammation, Suppurative	+ +																								
Trachea	+ +																								

**SPECIAL SENSES SYSTEM**

Eye Cataract	+ + + + A +																								
Harderian Gland Atrophy Infiltration Cellular, Lymphocyte	+ +																								

**URINARY SYSTEM**

Kidney Cyst	+ +																								
Glomerulosclerosis	X X																								
Infiltration Cellular, Lymphocyte Metaplasia, Osseous Nephropathy	2 2 2 1 2 1 1 2 2 1 1 2 1 2 2 1 3 1 1 1 2 1 2																								
Papilla, Inflammation, Suppurative Renal Tubule, Accumulation, Hyaline Droplet	2 2 2 1 2 1 1 2 2 1 1 2 1 2 2 1 3 1 1 1 2 1 2																								

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 Page 38

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	5	7	7	7	7	6	7	7	7	7	7	6	5	7	7	7	7	7	7	7	7	
	2	3	2	2	5	3	3	3	3	6	3	3	3	3	3	2	5	3	3	2	2	3	3	3	2	
	9	0	9	9	1	0	0	0	1	6	1	0	1	0	1	4	1	0	1	9	9	2	1	0	9	
<b>B6C3F1 MICE MALE</b>	.....																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>9000 PPM</b>	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	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	<b>males (cont...)</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Lymphocyte										2																

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 M .. Missing tissue  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 39



TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7
ANIMAL ID	2	3	3	3	2	3	2	3	3	3	2	3	3	3	2	3	3	2	2	3	3	3	2	6	2
	9	0	2	0	9	1	9	1	0	0	9	0	0	1	9	1	0	9	9	0	2	0	9	3	9

B6C3F1 MICE MALE  
9000 PPM

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Mixed Cell Focus				X		X	X	X											X					X		9		
Necrosis, Focal			2				2	2																		5	1.8	
Hepatocyte, Hyperplasia, Focal			4																							1	4.0	
Hepatocyte, Hypertrophy								3																		1	3.0	
Hepatocyte, Vacuolization Cytoplasmic	1	2			1					2			1				2	2					2			15	1.6	
Hepatocyte, Vacuolization Cytoplasmic, Focal																										1	2.0	
Kupffer Cell, Pigmentation																						2				2	2.0	
Mesentery					+		+			+		+												+		12		
Fibrosis																											1	3.0
Inflammation, Suppurative																											1	2.0
Fat, Necrosis				1		3			3																		6	2.7
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																											1	1.0
Cyst																											1	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infiltration Cellular, Lymphocyte										1			1														2	1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Epithelium, Hyperplasia																											3	2.3
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst												X											X				3	

CARDIOVASCULAR SYSTEM

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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 41

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								* TOTALS
	7 5 7 2 3 3 3 2 3 2 3 3 3 2 3 3 3 2 3 3 2 2 3 3 3 2 6 2 9 0 2 0 9 1 9 1 0 0 9 0 0 1 9 1 0 9 9 0 2 0 9 3 9																								
<b>B6C3F1 MICE MALE</b> <b>9000 PPM</b>	ANIMAL ID																								
	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 4 5 6 7 8 9 0																									

Blood Vessel	+																								1	
Heart	+																								50	
Cardiomyopathy	3	1	1	2	1	1	1	2	1	2		1	2		1	1	1	2	2	1	1	2	1	2	44	1.5

**ENDOCRINE SYSTEM**

Adrenal Cortex	+																								50																		
Accessory Adrenal Cortical Nodule																									1	2.0																	
Hypertrophy																									3	3.0																	
Hypertrophy, Focal																									10	1.6																	
Capsule, Hyperplasia	1	2	1	1	1	2		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	41	1.1																	
Adrenal Medulla	+																								50																		
Hyperplasia																									1	1.0																	
Islets, Pancreatic	+																								50																		
Hyperplasia	2																							2	2	3																11	2.1
Parathyroid Gland	+																								47																		
Cyst																									3																		
Pituitary Gland	+																								49																		
Pars Distalis, Cyst																									1																		
Thyroid Gland	+																								50																		

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
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 Page 42





TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0																								* TOTALS	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5		7
ANIMAL ID	0																								* TOTALS	
	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
9000 PPM	2	2	2	2	3	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	

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	+	M	2
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst Epithelial Inclusion												X																1

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																											+	3

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Peripheral Nerve																													1
Spinal Cord																													1

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infiltration Cellular, Histiocyte																													1	1.0
Alveolar Epithelium, Hyperplasia																													3	1.7
																													2	

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 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 45





TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 7 5 7 7 7 7 7 7 7 7 7 6 7 7 7 7 7 6 7 7																								
ANIMAL ID	3 3 3 3 3 9 3 3 3 3 3 2 2 3 3 3 3 1 3 2 3 2 9 3 3																								
	1 1 1 0 0 6 1 1 1 2 0 9 9 1 0 1 1 0 0 9 0 9 7 0 0																								
<b>B6C3F1 MICE MALE</b> <b>25000 PPM</b>	0 0																								
	0 0																								
	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								

males  
(cont...)

**ALIMENTARY SYSTEM**

Esophagus	+ +																								
Gallbladder	+ A + +																								
Intestine Large, Cecum	+ +																								
Intestine Large, Colon	+ + + + + + + + + + + + + + + + + A + + + + + + + +																								
Intestine Large, Rectum	+ +																								
Intestine Small, Duodenum	+ +																								
Intestine Small, Ileum	+ +																								
Intestine Small, Jejunum Hyperplasia, Lymphoid Epithelium, Hyperplasia	+ + + + + + + + + + + + + + + + + A + + + + + A + + 3 2																								
Liver	+ +																								
Angiectasis	1																								
Basophilic Focus																									
Clear Cell Focus	X X																								
Cyst																									
Eosinophilic Focus	X X X X X X X X																								
Infiltration Cellular, Lymphocyte	X X X X X X X X																								

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	DAY ON TEST																									males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	5	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	6	7	7		
	3	3	3	3	3	9	3	3	3	3	3	2	2	3	3	3	3	1	3	2	3	2	9	3		
	1	1	1	0	0	6	1	1	1	2	0	9	9	1	0	1	1	0	0	9	0	9	7	0		
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>25000 PPM</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	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	

Infiltration Cellular, Mixed Cell																									
Mixed Cell Focus							X		X														X	X	
Necrosis, Focal																									
Hepatocyte, Vacuolization																									
Kupffer Cell, Pigmentation																									
Mesentery Fibrosis																									
Pancreas																									
Infiltration Cellular, Lymphocyte																									
Acinus, Cytoplasmic Alteration																									
Salivary Glands																									
Infiltration Cellular, Lymphocyte																									
Stomach, Forestomach Epithelium, Hyperplasia																									
Stomach, Glandular Cyst																									
Erosion Epithelium, Hyperplasia																									

**CARDIOVASCULAR SYSTEM**

Heart																									
Cardiomyopathy																									

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 7 5 7 7 7 7 7 7 7 7 7 6 7 7 7 7 7 6 7 7																								
B6C3F1 MICE MALE 25000 PPM	3 3 3 3 3 9 3 3 3 3 3 2 2 3 3 3 3 1 3 2 3 2 9 3 3																								
	1 1 1 0 0 6 1 1 1 2 0 9 9 1 0 1 1 0 0 9 0 9 7 0 0																								
ANIMAL ID	0 0																								
	0 0																								
25000 PPM	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																									

males  
(cont...)

**ENDOCRINE SYSTEM**

Adrenal Cortex	+ +																								
Hypertrophy, Focal	1 2 1 1 1 1 2 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1																								
Capsule, Hyperplasia																									
Adrenal Medulla	+ + + + + M +																								
Islets, Pancreatic	+ +																								
Hyperplasia	2																								
Parathyroid Gland	+ + + + + + + + + + + M + + + + + + + + + + + + + + + + +																								
Pituitary Gland	+ + + + + + + + + + + X + + + + + + + + + + + + + + + + +																								
Pars Distalis, Cyst																									
Pars Distalis, Hyperplasia, Focal																									
Thyroid Gland	+ +																								
Follicle, Degeneration, Focal	2 2																								
Follicular Cell, Hyperplasia	2																								

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 7 5 7 7 7 7 7 7 7 7 7 6 7 7 7 7 7 6 7 7																								
ANIMAL ID	3 3 3 3 3 9 3 3 3 3 3 2 2 3 3 3 3 1 3 2 3 2 9 3 3																								
	1 1 1 0 0 6 1 1 1 2 0 9 9 1 0 1 1 0 0 9 0 9 7 0 0																								
<b>B6C3F1 MICE MALE</b> <b>25000 PPM</b>	0 0																								
	0 0																								
	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								

males  
(cont...)

Epididymis	+ +																								
Preputial Gland	+ +																								
Cyst	X X																								
Hyperplasia																									
Inflammation, Suppurative	3																								
Inflammation, Chronic	2 2																								
Prostate	+ +																								
Epithelium, Hyperplasia	2 2																								
Seminal Vesicle	+ +																								
Testes	+ +																								
Germinal Epithelium, Atrophy	2																								

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+ +																								
Hyperplasia	3 3 2 2 3 1 2 1																								
Lymph Node	+ +																								
Bronchial, Hyperplasia	3																								
Lymph Node, Mandibular	+ + + + + M + + + + + + + + + + + + + + + + + + +																								
Hyperplasia, Lymphoid	2																								

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TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 7 5 7 7 7 7 7 7 7 7 7 6 7 7 7 7 7 6 7 7																								
B6C3F1 MICE MALE 25000 PPM	3 3 3 3 3 9 3 3 3 3 3 2 2 3 3 3 3 1 3 2 3 2 9 3 3																								
	1 1 1 0 0 6 1 1 1 2 0 9 9 1 0 1 1 0 0 9 0 9 7 0 0																								
ANIMAL ID	0 0																								
	0 0																								
25000 PPM	1 1																								
	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...)

Lymph Node, Mesenteric Hyperplasia, Histiocytic Hyperplasia, Lymphoid	+ + + + + + + + + + + + + + + + + + + M + + + + +																								
	3																								
Spleen Hematopoietic Cell Proliferation Hyperplasia Lymphoid Follicle, Hyperplasia	+ +																								
	3 2 1 3 2 3 2 1 1 2																								
Thymus Atrophy Necrosis, Lymphoid	+ + + + + M + + M + M +																								
	3 3																								

INTEGUMENTARY SYSTEM

Mammary Gland	M + M M																								
Skin	+ +																								

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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2) Mild 4) Marked

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

	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	
<b>B6C3F1 MICE MALE</b>	7	7	7	7	7	5	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	6	7	7	0	
<b>25000 PPM</b>	3	3	3	3	3	9	3	3	3	3	3	2	2	3	3	3	3	1	3	2	3	2	9	3	3	
	1	1	1	0	0	6	1	1	1	2	0	9	9	1	0	1	1	0	0	9	0	9	7	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	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	

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Peripheral Nerve																										+
Spinal Cord																										+

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte																										1
Infiltration Cellular, Lymphocyte																										
Alveolar Epithelium, Hyperplasia																										4
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal																										2

**URINARY SYSTEM**

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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

B6C3F1 MICE MALE  
 25000 PPM

males  
(cont...)

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst											X													X	
Infarct																									
Infiltration Cellular, Lymphocyte	2																			2					
Metaplasia, Osseous										1															
Nephropathy	1	1	2	1	1		2	2	1	1	2	2	1	1	1	1	1	2	2	1		1	1	2	3
Renal Tubule, Pigmentation						2																			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage			2																						
Infiltration Cellular, Lymphocyte																									

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

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 Lab: SRI

DAY ON TEST	0 0																							
	7 7																							
ANIMAL ID	3 3 3 3 3 2 3 2 3 2 3 2 3 3 2 3 3 2 2 3 3 2 2 3 3																							
	1 1 0 0 1 9 1 2 2 9 0 9 0 1 9 1 9 1 0 9 9 1 0 1 1																							
<b>B6C3F1 MICE MALE</b> <b>25000 PPM</b>	0 0																							
	0 0																							
	1 1																							
	7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9																							
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9																							
	<b>* TOTALS</b>																							

**ALIMENTARY SYSTEM**

Esophagus	+ +																								<b>50</b>
Gallbladder	+ +																								<b>49</b>
Intestine Large, Cecum	+ +																								<b>50</b>
Intestine Large, Colon	+ +																								<b>49</b>
Intestine Large, Rectum	+ +																								<b>50</b>
Intestine Small, Duodenum	+ +																								<b>50</b>
Intestine Small, Ileum	+ +																								<b>50</b>
Intestine Small, Jejunum	+ +																								<b>48</b>
Hyperplasia, Lymphoid Epithelium, Hyperplasia	3																								<b>2 3.0</b> <b>1 2.0</b>
Liver	+ +																								<b>50</b>
Angiectasis																									<b>1 1.0</b>
Basophilic Focus																									<b>3</b>
Clear Cell Focus	X X																								<b>12</b>
Cyst	X																								<b>1</b>
Eosinophilic Focus	X X																								<b>24</b>
Infiltration Cellular, Lymphocyte	1																								<b>3 1.0</b>

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

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 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>B6C3F1 MICE MALE</b>	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	<b>25000 PPM</b>	
	3	3	3	3	3	2	3	2	3	2	3	2	3	3	2	3	2	3	3	2	2	3	3	3		3
	1	1	0	0	1	9	1	2	2	9	0	9	0	1	9	1	9	1	0	9	9	1	0	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst	X			X	X	X	X	X													X				13	
Hyperplasia	2			2																					2 2.0	
Inflammation, Suppurative	3																								2 3.0	
Inflammation, Chronic																									2 2.0	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperplasia															1										3 1.7	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Germinal Epithelium, Atrophy																									3	2 2.5

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	2										2			1			1								14 2.0	
Lymph Node																									2	
Bronchial, Hyperplasia																									1 3.0	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia, Lymphoid																									3	2 2.5

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TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

DAY ON TEST	0 0																								* TOTALS
	7 7																								
B6C3F1 MICE MALE 25000 PPM	3 3 3 3 3 2 3 2 3 2 3 2 3 3 2 3 3 2 2 3 3 2 3 3																								* TOTALS
	1 1 0 0 1 9 1 2 2 9 0 9 0 1 9 1 9 1 0 9 9 1 0 1 1																								
ANIMAL ID	0 0																								* TOTALS
	0 0																								
ANIMAL ID	1 1																								* TOTALS
	7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9																								
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																								* TOTALS
Kidney	+ +																								50
Cyst																									2
Infarct																									1 2.0
Infiltration Cellular, Lymphocyte																									2 2.0
Metaplasia, Osseous																									3 1.7
Nephropathy	2 2 1 1 2 1 2 3 1 1 2 1 1 1 2 1 1 1 2 2 1 2 1 2																								48 1.5
Renal Tubule, Pigmentation																									2 2.5
Urinary Bladder	+ +																								50
Hemorrhage																									1 2.0
Infiltration Cellular, Lymphocyte																									1 1.0

\*\*\* 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

Page 61

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
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 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
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DAY ON TEST	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
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	2	2	2	2	2	3	3	3	3	3	6	6	6	6	1	2	2	2	9	2	3	3	3	3	
<b>B6C3F1 MICE FEMALE</b> <b>0 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule				2																				
Degeneration, Cystic																								
Hematopoietic Cell Proliferation														1										
Hyperplasia, Focal																			1					
Hypertrophy, Focal									3															
Capsule, Hyperplasia	2	2	3	3	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia											2													
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				2														2						2
Parathyroid Gland	+	+	+	+	+	I	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Lymphocyte				2																				
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Pars Distalis, Hyperplasia, Focal				2			2							2			2	1		2				
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Follicle, Degeneration, Focal	1			2			2						1			2	2				1	1		1

**GENERAL BODY 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 64



TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	ANIMAL ID																									females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	0	3	3	3	3	3	3	
2	2	2	2	2	2	3	3	3	3	3	6	6	6	6	1	2	2	2	9	2	3	3	3	3	3	
<b>B6C3F1 MICE FEMALE</b> <b>0 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	0	0	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	

Hyperplasia, Lymphoid Pigmentation			3	3						3						2			3					
Lymph Node, Mesenteric Hyperplasia, Histiocytic Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	+	+	+	+	+	+	+	+	+
				2												3				2				
Spleen Hematopoietic Cell Proliferation Lymphoid Follicle, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	+	+	3	3	+	+	+	+
			2	3	2		2		2	3			3	3			3	1		3	3		2	2
Thymus Hemorrhage Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			2	3																				2

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Skin Edema	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			3																					

**MUSCULOSKELETAL SYSTEM**

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

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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 66

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 3 3 0 3 3 3 3 3 3																								
	2 2 2 2 2 3 3 3 3 3 3 6 6 6 6 1 2 2 2 9 2 3 3 3 3 3																								
<b>B6C3F1 MICE FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 PPM</b>	0	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	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

**NERVOUS SYSTEM**

Brain	+ +																								
Peripheral Nerve	+ +																								
Spinal Cord	+ +																								

**RESPIRATORY SYSTEM**

Lung	+ +																								
Hemorrhage	+ +																								
Infiltration Cellular, Lymphocyte	+ +																								
Inflammation, Chronic	+ +																								
Metaplasia, Osseous	+ +																								
Alveolar Epithelium, Hyperplasia	+ +																								
Nose	+ +																								
Trachea	+ +																								

**SPECIAL SENSES SYSTEM**

Eye	+ +																								
-----	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 + .. Tissue examined microscopically  
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 2) Mild 4) Marked  
 Page 67

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	ANIMAL ID																									females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	0	3	3	3	3	3	3	
2	2	2	2	2	2	3	3	3	3	3	6	6	6	6	1	2	2	2	9	2	3	3	3	3	3	
<b>B6C3F1 MICE FEMALE</b>																										
<b>0 PPM</b>																										
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	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	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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		

Atrophy																										2
Cornea, Inflammation, Suppurative																										3
Harderian Gland																										
Hyperplasia, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										3

**URINARY SYSTEM**

Kidney																											
Casts Protein																										2	
Cyst																											
Infiltration Cellular, Lymphocyte	2																								2		
Metaplasia, Osseous																										1	
Nephropathy																										1	
Urinary Bladder																											
Infiltration Cellular, Lymphocyte	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 68

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

DAY ON TEST	0 0																							
	7 7 7 7 7 7 7 7 5 7 7 5 7 7 6 7 7 7 7 7 7 7 7 7																							
ANIMAL ID	3 3 3 3 3 3 3 3 1 3 3 3 3 3 0 3 3 3 3 3 3 3 3 3																							
	2 2 2 2 2 2 2 2 6 2 3 5 3 3 4 2 2 1 2 2 2 2 2 2																							
<b>B6C3F1 MICE FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
																								<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Esophagus	+ +																								<b>50</b>
Gallbladder	+ + + + + + + + + A + + + + + + + + + M + + + + + + + +																								<b>48</b>
Intestine Large, Cecum	+ + + + + + + + + A + + + + + + + + + A + + + + + + + +																								<b>48</b>
Intestine Large, Colon	+ + + + + + + + + A + + + + + + + + + A + + + + + + + +																								<b>48</b>
Intestine Large, Rectum	+ + + + + + + + + A + + + + + + + + + A + + + + + + + +																								<b>48</b>
Intestine Small, Duodenum	+ + + + + + + + + A + + + + + + + + + A + + + + + + + +																								<b>48</b>
Intestine Small, Ileum Hyperplasia, Lymphoid	+ + + + + + + + + A + + + + + + + + + A + + + + + + + +																								<b>48</b>
																								<b>1 2.0</b>	
Intestine Small, Jejunum	+ + + + + + + + + A + + + + + + + + + A + + + + + + + +																								<b>48</b>
Liver	+ +																								<b>50</b>
Basophilic Focus																								<b>1</b>	
Eosinophilic Focus																								<b>3</b>	
Hematopoietic Cell Proliferation	X																							<b>3 1.3</b>	
Infiltration Cellular, Lymphocyte	1	2			1		1		1			1	1	2					1	1		1	1	1	
Infiltration Cellular, Mixed Cell	1										1											1	1		
Necrosis, Focal																								<b>7 1.0</b>	
Tension Lipidosis	X																							<b>1 1.0</b>	
																								<b>3</b>	

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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

DAY ON TEST	0 0																								* TOTALS
	7 7 7 7 7 7 7 7 5 7 7 5 7 7 6 7 7 7 7 7 7 7 7 7																								
ANIMAL ID	3 3 3 3 3 3 3 3 1 3 3 3 3 3 0 3 3 3 3 3 3 3 3 3																								* TOTALS
	2 2 2 2 2 2 2 2 6 2 3 5 3 3 4 2 2 1 2 2 2 2 2 2																								
<b>B6C3F1 MICE FEMALE</b>	0 0																								
<b>0 PPM</b>	0 0																								
	2 2																								
	2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5																								
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																								

Hepatocyte, Vacuolization Cytoplasmic 2 1 2.0

Mesentery + 10
Hemorrhage 1 2.0
Fat, Necrosis 2 1 8 2.0

Pancreas + + + + + + + + A + + + + + + + M + + + + + + 48
Atrophy 3 1 3.0
Cyst 1
Acinus, Cytoplasmic Alteration 1 1 4 1.5

Salivary Glands + 50
Fibrosis 2 1 2.0
Infiltration Cellular, Lymphocyte 1 2 1.5

Stomach, Forestomach + + + + + + + + + + + + + + + + A + + + + + + 49
Inflammation, Chronic 2 1 2.0

Stomach, Glandular + + + + + + + + + + + + + + + A + + + + + + 49
Cyst X X X X X 7

CARDIOVASCULAR SYSTEM

Heart + 50
Cardiomyopathy 2 1 39 1.2
Mineralization 2 1 2.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
x .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked
Page 70

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Accessory Adrenal Cortical Nodule																									1 2.0
Degeneration, Cystic																						1			1 1.0
Hematopoietic Cell Proliferation																									1 1.0
Hyperplasia, Focal																									1 1.0
Hypertrophy, Focal																									1 3.0
Capsule, Hyperplasia	2	2	2	2	2	2	2	2		1	2	2	2	2	2	2	2	1	2	2	2	2	2	2	49 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																									1 2.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	48
Hyperplasia		2																							4 2.0
Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	45
Infiltration Cellular, Lymphocyte																									1 2.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																							1		1 1.0
Pars Distalis, Hyperplasia, Focal		1																2							8 1.8
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Follicle, Degeneration, Focal				1				2		1					2					1		2	2	1	18 1.4

**GENERAL BODY SYSTEM**

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

	DAY ON TEST																									* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	5	7	7	5	7	7	6	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	3	3	3	1	3	3	3	3	3	0	3	3	3	3	3	3	3	3	3	3	
	2	2	2	2	2	2	2	2	6	2	3	5	3	3	4	2	2	1	2	2	2	2	2	2	2	
<b>B6C3F1 MICE FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 PPM</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst						X																						2
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	49		
Cyst		X		X													X			X		X					10	
Hemorrhage									1		1				3	1											10 1.6	
Corpus Luteum, Hyperplasia					3																						4 2.3	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia, Cystic	1	3	1	2	3	2	3	2		2	3	3	3	2	3	2	3	2	2	2	2	3		2	3		48 2.5	
Inflammation, Suppurative																											1 3.0	

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia																											2 3.5
Myelofibrosis					2				2														1		1		6 1.7
Lymph Node																											6
Pancreatic, Hyperplasia, Lymphoid																											1 3.0
Renal, Hyperplasia, Lymphoid																											1 2.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

DAY ON TEST	0																								* TOTALS
	7	7	7	7	7	7	7	7	5	7	7	5	7	7	6	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	3	3	3	1	3	3	3	3	3	0	3	3	3	3	3	3	3	3	3	3
	2	2	2	2	2	2	2	2	6	2	3	5	3	3	4	2	2	1	2	2	2	2	2	2	2
<b>B6C3F1 MICE FEMALE</b> <b>0 PPM</b>	ANIMAL ID																								
	0																								
	0																								
	2																								
	2																								
6																									

Hyperplasia, Lymphoid Pigmentation																									3	6	2.8	
	2																									1	2.0	
Lymph Node, Mesenteric Hyperplasia, Histiocytic Hyperplasia, Lymphoid	+																								M	48	1	1.0
	3																									4	2.5	
Spleen Hematopoietic Cell Proliferation Lymphoid Follicle, Hyperplasia	+																								A	48	5	3.0
	2																								3	24	2.4	
Thymus Hemorrhage Hyperplasia, Lymphoid	+																								M	49	1	2.0
	2																								3	4	2.5	

INTEGUMENTARY SYSTEM

Mammary Gland	+																								49		
Skin Edema	+																								50	1	3.0

MUSCULOSKELETAL SYSTEM

Bone	+																								50
Skeletal Muscle																									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 73



TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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

**B6C3F1 MICE FEMALE**  
**0 PPM**

Atrophy																									<b>1</b>	<b>2.0</b>
Cornea, Inflammation, Suppurative																									<b>1</b>	<b>3.0</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Hyperplasia, Focal																										
Inflammation, Chronic																										

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>																	
Casts Protein																																										
Cyst																																										
Infiltration Cellular, Lymphocyte																																										
Metaplasia, Osseous																																										
Nephropathy	1	1																					1	2	1	1															<b>13</b>	<b>1.1</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>																	
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  
 Page 75

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

**B6C3F1 MICE FEMALE**

**3000 PPM**

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gallbladder Inflammation, Chronic	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Large, Cecum	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Large, Rectum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Small, Duodenum	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Small, Ileum	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Small, Jejunum Hyperplasia, Lymphoid	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Clear Cell Focus																										
Eosinophilic Focus																										
Hematopoietic Cell Proliferation																										
Infiltration Cellular, Lymphocyte																										
Infiltration Cellular, Mixed Cell																										
Mixed Cell Focus																										

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

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

B6C3F1 MICE FEMALE

3000 PPM

Necrosis, Focal  
Tension Lipidosis  
Hepatocyte, Vacuolization Cytoplasmic

1 3

Mesentery  
Fat, Necrosis

+ 3 + 2 + 3

Pancreas  
Atrophy  
Cyst  
Inflammation, Granulomatous, Chronic  
Acinus, Cytoplasmic Alteration

+ + + + + + + + 1 X + + + + + + + + + + A + +  
1 X  
1 1

Salivary Glands  
Fibrosis  
Infiltration Cellular, Lymphocyte

+  
2 2

Stomach, Forestomach  
Edema  
Inflammation, Granulomatous, Chronic  
Ulcer  
Epithelium, Hyperplasia

+  
1

Stomach, Glandular  
Cyst

+ + + + + + + + + + + X X + + + + + + + + A + +

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  
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1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
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Page 77

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|                           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(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 |                      |   |
|                           | 5           | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                      |   |
|                           | 2           | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3                    |   |
|                           | 2           | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 9 | 3                    | 3 |
| <b>B6C3F1 MICE FEMALE</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 |
| <b>3000 PPM</b>           | 0           | 0 | 0 | 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 |
|                           | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7                    | 7 |
|                           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |                      |   |

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy |   | 1 | 2 | 1 |   | 1 |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   | 1 |

**ENDOCRINE SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Angiectasis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Degeneration, Fatty                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Focal                   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hypertrophy, Focal                   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Granulomatous, Chronic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Capsule, Hyperplasia                 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 |   |
| Adrenal Medulla                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                          | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland                    | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | M |   |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Infiltration Cellular, Lymphocyte    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Hyperplasia, Focal    |   |   |   |   |   |   |   |   |   |   | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |
| 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  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

| DAY ON TEST                    | Animals   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5                              | 7         | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
| 2                              | 3         | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 |   |
| 2                              | 3         | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 9 |   |
| <hr/>                          |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| B6C3F1 MICE FEMALE<br>3000 PPM | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0                              | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| 2                              | 2         | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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...)

Inflammation, Suppurative  
Follicle, Cyst  
Follicle, Degeneration, Focal

|   |   |  |  |   |  |   |  |  |  |   |  |  |  |  |  |  |  |   |   |  |  |  |   |   |
|---|---|--|--|---|--|---|--|--|--|---|--|--|--|--|--|--|--|---|---|--|--|--|---|---|
| X |   |  |  |   |  |   |  |  |  |   |  |  |  |  |  |  |  |   |   |  |  |  |   |   |
|   | 3 |  |  | 2 |  | 1 |  |  |  | 2 |  |  |  |  |  |  |  | 2 | 1 |  |  |  | 2 | 2 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                                 |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary                                | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cyst                                 |   | X |   |   | X |   |   | X |   | X | X |   | X |   |   | X |   |   |   | X |   |   |   |   |
| Hemorrhage                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                           | 4 |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 1 |   |   |
| Bilateral, Cyst                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Corpus Luteum, Hyperplasia           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Uterus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Cystic                  | 2 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 |   | 3 |
| Infiltration Cellular, Histiocyte    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Granulomatous, Chronic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |

HEMATOPOIETIC SYSTEM

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

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

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

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

| DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(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 |                      |
| 5           | 7         | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                      |
| 2           | 3         | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3                    |
| 2           | 3         | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 9 | 3                    |

**B6C3F1 MICE FEMALE**

**3000 PPM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow<br>Hyperplasia<br>Myelofibrosis  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| Lymph Node   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |
| Lymph Node, Mandibular<br>Hyperplasia, Lymphoid  | + | + | + | + | + | 3 |   |   |   | + | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric<br>Ectasia<br>Hyperplasia, Histiocytic<br>Hyperplasia, Lymphoid<br>Inflammation, Granulomatous, Chronic | + | M | + | + | + | + | + | + | + | M | + | 3 |   |   |   |   |   |   |   |   |   |   | 3 |   | A | + |
| Spleen<br>Hematopoietic Cell Proliferation<br>Lymphoid Follicle, Hyperplasia   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Thymus<br>Atrophy<br>Hyperplasia, Lymphoid<br>Necrosis, Lymphoid   | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 |

**INTEGUMENTARY SYSTEM**

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

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

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|                           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
|                           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|                           | 5           | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                          |
|                           | 2           | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3                        |
|                           | 2           | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 9 | 3 | 3                        |
| <b>B6C3F1 MICE FEMALE</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                        |
| <b>3000 PPM</b>           | 0           | 0 | 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                        |
|                           | 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 | 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 | <b>females (cont...)</b> |

Cyst  
 Hyperplasia  
 Skin +

**MUSCULOSKELETAL SYSTEM**

Bone +  
 Skeletal Muscle +

**NERVOUS SYSTEM**

Brain  
 Compression +

**RESPIRATORY SYSTEM**

Lung  
 Infiltration Cellular, Lymphocyte  
 Alveolar Epithelium, Hyperplasia +  
 2 2  
 Nose +  
 Trachea +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 81







TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|                           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|                           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|                           | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 |          |
|                           | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 9 | 3 |          |
|                           | 3           | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 6 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 2 | 2 | 6 | 2 |          |
| <b>B6C3F1 MICE FEMALE</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
| <b>3000 PPM</b>           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|                           | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |          |
|                           | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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        |

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Cardiomyopathy | 1 | 2 |   | 1 |   | 1 | 1 | 1 | 1 | 1 | 2 | 1 |   | 1 | 2 | 1 | 1 |   | 1 | 1 |   |   | 1 | 2 | 1  | 38 1.1 |

**ENDOCRINE SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |        |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Adrenal Cortex                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
| Angiectasis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 1 3.0 |        |
| Degeneration, Fatty                  |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |        |
| Hyperplasia, Focal                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |        |
| Hypertrophy, Focal                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0 |        |
| Inflammation, Granulomatous, Chronic |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |        |
| Capsule, Hyperplasia                 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 2     | 50 1.8 |
| Adrenal Medulla                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   | 1 | 2 1.0 |        |
| Islets, Pancreatic                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |        |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | A |   |   |   |   |   | 2 1.5 |        |
| Parathyroid Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44    |        |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1     |        |
| Infiltration Cellular, Lymphocyte    |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |        |
| Pituitary Gland                      | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |        |
| Angiectasis                          |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |        |
| Pars Distalis, Hyperplasia, Focal    |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 5 1.8 |        |
| Thyroid Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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  
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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST                                  | 0         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|  | 7         | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 |          |
|  | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 9 | 3 |          |
|  | 3         | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 2 | 2 | 6 | 2        |
| <b>B6C3F1 MICE FEMALE</b><br><b>3000 PPM</b> | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|  | 0         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|  | 0         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|  | 2         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|  | 7         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| 6  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 3 | 2 2.5  |
| Myelofibrosis                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0  |
| Lymph Node                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 4      |
| Lymph Node, Mandibular               | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5  |
| Lymph Node, Mesenteric               | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | A | + | M | + | + | + | + | 43     |
| Ectasia                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   | 3 3.0  |
| Hyperplasia, Histiocytic             |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Inflammation, Granulomatous, Chronic |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   | 1 4.0  |
| Spleen                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 48     |
| Hematopoietic Cell Proliferation     |   |   |   | 2 | 2 |   |   |   |   |   | 3 |   | 2 |   |   |   |   |   |   |   |   |   | 3 |   | 7 2.4  |
| Lymphoid Follicle, Hyperplasia       | 2 |   |   | 3 | 2 |   |   | 3 |   |   |   | 2 | 3 | 3 |   | 2 | 2 |   | 1 | 2 |   |   |   | 2 | 26 2.1 |
| Thymus                               | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
| Atrophy                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5  |
| Necrosis, Lymphoid                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   | 1 3.0  |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 87

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|                           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |  |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
|                           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |  |
|                           | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 7 |          |  |
|                           | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 9 | 3 |          |  |
|                           | 3           | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 6 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 2 | 2 | 6 | 2 |          |  |
| <b>B6C3F1 MICE FEMALE</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |  |
| <b>3000 PPM</b>           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |  |
|                           | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |          |  |
|                           | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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        |  |

|                  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |       |
|------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-------|
| Cyst Hyperplasia |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | 1     |
|                  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 1 2.0 |
| Skin             | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | 50    |

**MUSCULOSKELETAL SYSTEM**

|                 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|-----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Bone            | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |
| Skeletal Muscle |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |

**NERVOUS SYSTEM**

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

**RESPIRATORY SYSTEM**

|                                   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |       |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----|-------|
| Lung                              | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | 50 |       |
| Infiltration Cellular, Lymphocyte | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    | 2 2.0 |
| Alveolar Epithelium, Hyperplasia  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2  | 3 2.0 |
| Nose                              | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | 50 |       |
| Trachea                           | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | 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. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

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

**B6C3F1 MICE FEMALE**  
**9000 PPM**

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder                                     | + | M | + | + | + | A | + | + | + | + | A | + | + | + | A | + | + | + | + | M | A | + | + | + |
| Intestine Large, Cecum                          | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Intestine Large, Colon                          | + | A | + | + | + | A | + | + | + | + | A | + | + | + | A | + | + | + | + | A | A | + | + | + |
| Intestine Large, Rectum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Intestine Small, Duodenum                       | + | A | + | + | + | A | + | + | + | + | A | + | + | + | A | + | + | + | + | A | A | + | + | + |
| Intestine Small, Ileum                          | + | A | + | + | + | A | + | + | + | + | A | + | + | + | A | + | + | + | + | A | A | + | + | + |
| Intestine Small, Jejunum                        | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + |
| Hyperplasia, Lymphoid Inflammation, Suppurative |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cyst  |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |
| Eosinophilic Focus                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hematopoietic Cell Proliferation                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Lymphocyte               | 1 |   | 1 |   | 1 | 1 |   | 1 |   | 1 | 1 |   | 1 | 1 | 1 |   | 1 | 1 |   |   |   | 1 | 1 |   |
| Infiltration Cellular, Mixed Cell               |   |   |   | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST                    | 0         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                                | 7         | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 0 | 7 | 7 | 7 |  |
| 3                              | 0         | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 |   |  |
| 3                              | 8         | 3 | 3 | 3 | 2 | 7 | 2 | 2 | 2 | 3 | 3 | 9 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 6 | 5 | 2 | 2 | 2 |   |  |
| B6C3F1 MICE FEMALE<br>9000 PPM | 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 |  |
|                                |           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
|                                |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |  |
| 1                              | 2         | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |  |

females (cont...)

**CARDIOVASCULAR SYSTEM**

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

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Adrenal Cortex                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + |   |  |  |  |  |
| Angiectasis                               | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Degeneration, Cystic Capsule, Hyperplasia | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |   | 2 | 2 | 2 |   |  |  |  |  |
| Adrenal Medulla                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + |   |  |  |  |  |
| Amyloid Deposition                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Hyperplasia                               | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Islets, Pancreatic                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + |  |  |  |  |
| Hyperplasia                               | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Parathyroid Gland                         | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Pituitary Gland                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |  |  |  |  |
| Angiectasis                               | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Pars Distalis, Cyst                       | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Pars Distalis, Hyperplasia, Focal         | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |

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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
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 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST                    | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
|                                | 7 7 7 7 7 7 6 7 7 7 7 7 7 7 6 7 7 7 7 5 0 7 7 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| B6C3F1 MICE FEMALE<br>9000 PPM | 3 0 3 3 3 3 5 3 3 3 3 0 1 3 3 5 3 3 3 1 0 3 3 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|                                | 3 8 3 3 3 2 7 2 2 2 3 3 9 3 3 4 2 2 2 6 5 2 2 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| ANIMAL ID                      | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|                                | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| 9000 PPM                       | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|                                | 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|                                |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 |

females (cont...)

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland                 | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicle, Cyst                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicle, Degeneration, Focal |   |   |   | 2 |   | 1 |   |   |   |   |   |   |   | 1 |   | 1 |   |   | 1 |   | 1 |   |   |   |
| Follicular Cell, Hyperplasia  |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| Cyst                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Ovary               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mineralization      |   |   |   | 2 |   | 2 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pigmentation        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Cystic | 2 | 3 | 1 | 3 | 2 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 1 |   |   |   |   | 2 | 2 | 3 |
| Thrombosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

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

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

|                                   | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
|                                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                          |
|                                   | 7           | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 0 | 7 | 7 | 7 |   |   |                          |
|                                   | 3           | 0 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 5 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 |   |   |                          |
|                                   | 3           | 8 | 3 | 3 | 3 | 2 | 7 | 2 | 2 | 2 | 3 | 3 | 9 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 6 | 5 | 2 | 2 |   |   |                          |
| <b>B6C3F1 MICE FEMALE</b>         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |                          |
|                                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |                          |
| <b>9000 PPM</b>                   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |   |                          |
|                                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |   |   |                          |
|                                   | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | <b>females (cont...)</b> |
| Bone Marrow                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                          |
| Hyperplasia                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
| Inflammation, Chronic             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
| Myelofibrosis                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
| Lymph Node                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
| Iliac, Hyperplasia, Lymphoid      |             |   |   | + |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
| Pancreatic, Hyperplasia, Lymphoid |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
| Renal, Hyperplasia, Lymphoid      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
| Lymph Node, Mandibular            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                          |
| Hyperplasia, Lymphoid             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
| Lymph Node, Mesenteric            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                          |
| Ectasia                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
| Hyperplasia, Histiocytic          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
| Hyperplasia, Lymphoid             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
| Spleen                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                          |
| Atrophy                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
| Hematopoietic Cell Proliferation  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
| Lymphoid Follicle, Hyperplasia    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4                        |
| Thymus                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                          |
| Atrophy                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
| Hyperplasia, Lymphoid             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3                        |
|                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1                        |

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|                           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
|                           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|                           | 7           | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 0 | 7 | 7 | 7 |                          |
|                           | 3           | 0 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 |                          |
|                           | 3           | 8 | 3 | 3 | 3 | 2 | 7 | 2 | 2 | 2 | 3 | 3 | 9 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 6 | 5 | 2 | 2 | 2 |                          |
| <b>B6C3F1 MICE FEMALE</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|                           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
| <b>9000 PPM</b>           | 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 |                          |
|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females (cont...)</b> |

Mammary Gland

+ + + + + + M +

Skin

+ +

**MUSCULOSKELETAL SYSTEM**

Bone  
Fracture

+ +

Skeletal Muscle  
Necrosis

**NERVOUS SYSTEM**

Brain  
Hemorrhage

+ 2

Peripheral Nerve

+

Spinal Cord

+

**RESPIRATORY SYSTEM**

Lung

+ +

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

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST               | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 7 7 7 7 7 6 7 7 7 7 7 7 7 7 6 7 7 7 7 5 0 7 7 7 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ANIMAL ID                 | 3 0 3 3 3 3 5 3 3 3 3 0 1 3 3 5 3 3 3 1 0 3 3 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                           | 3 8 3 3 3 2 7 2 2 2 3 3 9 3 3 4 2 2 2 6 5 2 2 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>B6C3F1 MICE FEMALE</b> | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>9000 PPM</b>           | 0   | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

|                                   |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Foreign Body                      | 1   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hemorrhage                        |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration Cellular, Lymphocyte |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inflammation, Suppurative         | 2   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alveolar Epithelium, Hyperplasia  | 2   |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nose                              | + |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Foreign Body                      | 2   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inflammation, Suppurative         | 2   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glands, Degeneration, Cystic      | 3   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trachea                           | + |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**SPECIAL SENSES SYSTEM**

|                    |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye                | + A + + + + + + + + + + A + + + A + + + + + A + + + |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Harderian Gland    | +   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hyperplasia        | 4   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hyperplasia, Focal | 2 1   |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**URINARY SYSTEM**

|                                   |   |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney                            | + |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Casts Protein                     |   |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infarct                           | 1   |  |  |  |  |  |  |  |  |  | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration Cellular, Lymphocyte | 2   |  |  |  |  |  |  |  |  |  | 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 96

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|   | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|   | 7           | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 0 | 7 | 7 | 7 |                          |
|   | 3           | 0 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 |                          |
|   | 3           | 8 | 3 | 3 | 3 | 2 | 7 | 2 | 2 | 2 | 3 | 3 | 9 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 6 | 5 | 2 | 2 | 2 |                          |
| <b>B6C3F1 MICE FEMALE</b>                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
| <b>9000 PPM</b>                                   | 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 | <b>females (cont...)</b> |
| Metaplasia, Osseous Nephropathy                   |             |   |   |   | 1 | 1 |   |   | 1 |   |   |   | 1 |   |   |   | 1 | 1 | 1 |   |   | 1 |   |   | 2 |                          |
| Urinary Bladder Infiltration Cellular, Lymphocyte | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                          |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 97

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

| DAY ON TEST                    | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | * TOTALS |
|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
|                                | 6 7 7 3 7 7 7 6 7 7 7 6 7 7 7 6 7 7 6 7 7 6 7 7   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| B6C3F1 MICE FEMALE<br>9000 PPM | 7 3 3 5 3 3 3 3 3 3 3 5 3 3 3 3 7 3 3 7 3 3 9 3 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | * TOTALS |
|                                | 2 2 2 9 2 6 6 3 6 6 2 2 2 2 2 3 9 3 3 7 3 3 3 3 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| ANIMAL ID                      | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | * TOTALS |
|                                | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| ANIMAL ID                      | 3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | * TOTALS |
|                                | 2 2 2 2 3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| ANIMAL ID                      | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 4 4 4 4 4   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | * TOTALS |
|                                | 2 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |

ALIMENTARY SYSTEM

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------|
| Esophagus                                       | + M + +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 49             |
| Gallbladder                                     | + + + + + + + M + + + A + + + + A + + A + + A + +     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 39             |
| Intestine Large, Cecum                          | A + + + + + + + A + + + A + + + + + + + + A + + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 41             |
| Intestine Large, Colon                          | A + + + + + + + A + + + A + + + + + + + + A + + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 39             |
| Intestine Large, Rectum                         | A + + + + + + + A + + + A + + + + + + + + A + + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43             |
| Intestine Small, Duodenum                       | A + + + + + + + A + + + A + + + + A + + A + + A + +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 38             |
| Intestine Small, Ileum                          | A + + + + + + + A + + + A + + + + + + + + A + + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 39             |
| Intestine Small, Jejunum                        | A + + + + + + + + + + + A + + + + + + + + A + + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43             |
| Hyperplasia, Lymphoid Inflammation, Suppurative | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 2.0<br>1 1.0 |
| Liver   | + A + + + + +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 49             |
| Basophilic Focus                                |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3              |
| Cyst  | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1              |
| Eosinophilic Focus                              | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2              |
| Hematopoietic Cell Proliferation                |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 1.5          |
| Infiltration Cellular, Lymphocyte               | 1 2 1 1 1   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 26 1.1         |
| Infiltration Cellular, Mixed Cell               | 1 1 1 1 1   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 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. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

| DAY ON TEST                           | 0   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | * TOTALS |   |       |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|----------|---|-------|
|                                       | 6 7 7 3 7 7 7 6 7 7 7 6 7 7 7 6 7 7 6 7 7 6 7 7   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |          |   |       |
| B6C3F1 MICE FEMALE<br>9000 PPM        | 7 3 3 5 3 3 3 3 3 3 3 5 3 3 3 3 7 3 3 7 3 3 9 3 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | * TOTALS |   |       |
|                                       | 2 2 2 9 2 6 6 3 6 6 2 2 2 2 2 2 3 9 3 3 7 3 3 3 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |          |   |       |
| ANIMAL ID                             | 0   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | * TOTALS |   |       |
| ANIMAL ID                             | 0   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |          |   |       |
| ANIMAL ID                             | 3   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | * TOTALS |   |       |
| ANIMAL ID                             | 2 2 2 2 3   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |          |   |       |
| 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 |   |       |
| 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |          |   |       |
| Mixed Cell Focus                      | X   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 2        |   |       |
| Capsule, Fibrosis                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 2.0    |   |       |
| Hepatocyte, Vacuolization Cytoplasmic | 1   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 2        | 1 | 7 1.9 |
| Mesentery                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 9        |   |       |
| Hemorrhage                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 4.0    |   |       |
| Infiltration Cellular, Lymphocyte     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 3.0    |   |       |
| Fat, Necrosis                         | 3   |   |   | 2 |   |   | 2 |   |   | 2 |   |   | 3 |   |   |   |   |   |   |   |   |   |       |   | 7 2.3    |   |       |
| Pancreas                              | A   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | +     | + | +        | + | 47    |
| Cyst                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1        |   |       |
| Acinus, Cytoplasmic Alteration        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 1.0    |   |       |
| Artery, Inflammation                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 3.0    |   |       |
| Salivary Glands                       | +   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | + | +        | + | 50    |
| Fibrosis                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 2.0    |   |       |
| Infiltration Cellular, Lymphocyte     | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1 | 5 1.6 |   |          |   |       |
| Stomach, Forestomach                  | +   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | +     | + | +        | + | 48    |
| Cyst                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 2        |   |       |
| Infiltration Cellular, Lymphocyte     | 2   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 2.0    |   |       |
| Ulcer                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 2 2.0    |   |       |
| Epithelium, Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 3 2.0    |   |       |
| Stomach, Glandular                    | +   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | +     | + | +        | + | 48    |
| Cyst                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 2        |   |       |
| Ulcer                                 | 2   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   | 1 2.0    |   |       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 99

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| 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 |          | 0 |
|  | 6         | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |          |   |
|  | 7         | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 3 | 9 | 3 | 3        |   |
|  | 2         | 2 | 2 | 9 | 2 | 6 | 6 | 3 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 9 | 3 | 3 | 7 | 3 | 3 | 3 | 3 |          |   |
| <b>B6C3F1 MICE FEMALE</b><br><b>9000 PPM</b> | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |
|  | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |   |
|  | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |   |
|  | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        |   |
|  | 2         | 2 | 2 | 2 | 3 | 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 |          |   |

**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |     |
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Cardiomyopathy |   | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 |   | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 |   | 1 | 1 | 37 | 1.0 |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex                    | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |     |     |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0 |     |
| Degeneration, Cystic              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3.0 |     |
| Capsule, Hyperplasia              | 1 | 2 | 2 | 1 | 2 | 2 | 2 |   | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 |   | 1 | 2 | 2 | 2 | 2  | 47  | 1.6 |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Amyloid Deposition                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0 |     |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.0 |     |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |     |     |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |     |
| Parathyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |     |     |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0 |     |
| Pars Distalis, Cyst               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |     |     |
| Pars Distalis, Hyperplasia, Focal | 2 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 6  | 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. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST                    | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |  |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
|                                | 6   | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |          |  |
|                                | 7   | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 3 | 9 | 3 | 3 |          |  |
|                                | 2   | 2 | 2 | 9 | 2 | 6 | 6 | 3 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 9 | 3 | 3 | 7 | 3 | 3 | 3 | 3 |          |  |
| B6C3F1 MICE FEMALE<br>9000 PPM | 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 |          |  |
|                                | 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 |          |  |

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Thyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 48  |
| Follicle, Cyst                |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 2   |
| Follicle, Degeneration, Focal |   |   |   |   |   | 1 | 2 |   |   |   |   | 1 |   |   | 2 | 2 |   |   | 1 |   | 2 | 1 |   | 2 | 2   |
| Follicular Cell, Hyperplasia  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 16  |
|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.4 |
|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Clitoral Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49  |
| Cyst                |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   | X |   |   | 4   |
| Ovary               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Cyst                |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   | X |   | X | X |   | X | X | 10  |
| Hemorrhage          |   |   |   |   |   |   | 2 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 7   |
| Mineralization      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 1   |
| Pigmentation        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   | 3   |
| Thrombosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3   |
| Uterus              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Hyperplasia, Cystic |   | 2 | 2 | 2 | 2 | 1 | 2 |   | 1 | 3 | 2 |   | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 45  |
| Thrombosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.3 |
|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.0 |

**HEMATOPOIETIC SYSTEM**

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

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

|                                   | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                 |
|                                   | 6           | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |   |                 |
|                                   | 7           | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 3 | 9 | 3 | 3 |                 |
|                                   | 2           | 2 | 2 | 9 | 2 | 6 | 6 | 3 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 9 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 |                 |
| <b>B6C3F1 MICE FEMALE</b>         | .....       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|                                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                   | 0           | 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 |                 |
| <b>9000 PPM</b>                   | 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 | <b>* TOTALS</b> |
| Bone Marrow                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |
| Hyperplasia                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b>    |
| Inflammation, Chronic             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |
| Myelofibrosis                     |             | 3 |   |   |   | 2 |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   | <b>5 2.6</b>    |
| Lymph Node                        | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>        |
| Iliac, Hyperplasia, Lymphoid      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |
| Pancreatic, Hyperplasia, Lymphoid |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |
| Renal, Hyperplasia, Lymphoid      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |
| Lymph Node, Mandibular            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b>       |
| Hyperplasia, Lymphoid             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>4 2.5</b>    |
| Lymph Node, Mesenteric            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b>       |
| Ectasia                           |             |   |   |   |   | 3 |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3 3.3</b>    |
| Hyperplasia, Histiocytic          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 1.0</b>    |
| Hyperplasia, Lymphoid             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3 2.7</b>    |
| Spleen                            | +           | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | <b>47</b>       |
| Atrophy                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |
| Hematopoietic Cell Proliferation  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>8 2.5</b>    |
| Lymphoid Follicle, Hyperplasia    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>18 2.3</b>   |
| Thymus                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |
| Atrophy                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b>    |
| Hyperplasia, Lymphoid             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>4 1.8</b>    |

**INTEGUMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked





TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|   | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   | 6           | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |                 |
|   | 7           | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 3 | 9 | 3 |                 |
|   | 2           | 2 | 2 | 9 | 2 | 6 | 6 | 3 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 9 | 3 | 3 | 7 | 3 | 3 | 3 | 3 |                 |
| <b>B6C3F1 MICE FEMALE</b>                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>9000 PPM</b>                                   | 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 |                 |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |
| Metaplasia, Osseous Nephropathy                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |
|   | 1           |   |   |   |   | 1 |   | 1 | 1 |   |   |   |   |   | 1 |   | 1 |   |   |   |   |   | 1 |   |                 |
| Urinary Bladder Infiltration Cellular, Lymphocyte |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50 1.2</b>   |
|   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |
|   |             |   |   |   |   | 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:  
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 2) Mild 4) Marked  
 Page 105

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST                                   | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|   | 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 6 7 6   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANIMAL ID                                     | 3 3 3 3 3 2 2 2 6 2 3 3 3 3 3 3 3 3 3 3 3 2 2 9 2 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 3 3 3 3 3 9 9 9 3 9 6 6 6 6 6 6 6 6 6 6 6 9 9 2 9 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>B6C3F1 MICE FEMALE</b><br><b>25000 PPM</b> | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 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...)

**ALIMENTARY SYSTEM**

|                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus                        | +     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gallbladder                      | + A   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Cecum<br>Cyst   | + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Colon           | + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Rectum          | + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Duodenum        | + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Ileum           | + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Jejunum         | + A + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Liver                            | +     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Angiectasis                      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basophilic Focus                 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Clear Cell Focus                 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cyst                             | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eosinophilic Focus               | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hematopoietic Cell Proliferation | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hepatodiaphragmatic Nodule       | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

|                                       | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  | females<br>(cont...) |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|----------------------|
|                                       | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>5<br>6<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>6 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>9<br>2 | 0<br>7<br>2<br>9 | 0<br>6<br>2<br>9 |  |                      |
| <b>B6C3F1 MICE FEMALE</b>             | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |  |                      |
| <b>25000 PPM</b>                      | 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                |                  |  |                      |
|                                       | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 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                |                  |  |                      |
| Infarct                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Infiltration Cellular, Lymphocyte     |                  | 1                |                  | 1                | 1                |                  | 1                |                  | 2                | 1                | 1                | 1                |                  |                  |                  |                  |                  | 1                | 1                | 1                |                  |                  | 1                |                  |  |                      |
| Infiltration Cellular, Mixed Cell     |                  |                  | 1                |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |  |                      |
| Inflammation, Acute                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Mixed Cell Focus                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |  |                      |
| Hepatocyte, Vacuolization Cytoplasmic |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |  |                      |
| Kupffer Cell, Pigmentation            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Mesentery                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | +                |                  |  |                      |
| Fat, Necrosis                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 3                |                  |  |                      |
| Pancreas                              | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                  |  |                      |
| Atrophy                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |  |                      |
| Cyst                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |  |                      |
| Infiltration Cellular, Lymphocyte     |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Acinus, Cytoplasmic Alteration        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Salivary Glands                       | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                  |  |                      |
| Infiltration Cellular, Lymphocyte     |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |  |                      |
| Stomach, Forestomach                  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                  |  |                      |
| Infiltration Cellular, Lymphocyte     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Ulcer                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |  |                      |
| Epithelium, Hyperplasia               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Stomach, Glandular                    | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                  |  |                      |
| Cyst                                  | X                |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |
| Glands, Ectasia                       |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |  |                      |

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Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST                                   | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females (cont...) |   |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|---|
|   | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                   |   |
| 7   | 7         | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 0 |                   |   |
| 3   | 3         | 3 | 3 | 3 | 2 | 2 | 2 | 6 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 9 | 2 | 8                 | 0 |
| 3   | 3         | 3 | 3 | 3 | 9 | 9 | 9 | 3 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 2 | 9 | 4                 | 0 |
| <hr/>   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                   |   |
| <b>B6C3F1 MICE FEMALE</b><br><b>25000 PPM</b> | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                 | 0 |
|   | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                 | 0 |
|   | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                 | 3 |
|   | 5         | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7                 | 3 |
|   | 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 | 7                 |   |

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Follicle, Cyst                |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |  |
| Follicle, Degeneration, Focal |   |   |   |   | 1 |   |   |   | 2 |   |   |   |   |   |   |   | 2 |   |   | 2 |   | 1 |   | 2 |   |  |
| Follicular Cell, Hyperplasia  |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Ovary                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Cyst                        |   |   |   |   |   |   |   |   |   | X | X |   | X |   | X | X |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage                  |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 2 |   |   |   |
| Bilateral, Cyst             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Corpus Luteum, Hyperplasia  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Granulosa Cell, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Fibrosis                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Cystic         | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 |   | 2 | 3 | 2 | 2 | 2 | 2 | 3 |   | 3 | 3 |   |
| Inflammation, Suppurative   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myometrium, Hypertrophy     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |

**HEMATOPOIETIC SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

| DAY ON TEST               | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 7 7 7 7 7 7 6 7 6   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ANIMAL ID                 | 3 3 3 3 3 2 2 2 6 2 3 3 3 3 3 3 3 3 3 3 2 2 9 2 8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                           | 3 3 3 3 3 9 9 9 3 9 6 6 6 6 6 6 6 6 6 6 9 9 2 9 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>B6C3F1 MICE FEMALE</b> | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>25000 PPM</b>          | 0   | 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...)

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Depletion Cellular               |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                      |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myelofibrosis                    |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 1 | 2 |   |   |   |   | 2 |   |   | 1 |   |   |
| Lymph Node                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Lymph Node, Mandibular           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphoid            |   |   |   |   |   |   |   | 2 | 3 |   |   |   | 2 | 2 |   |   | 2 |   | 2 |   |   |   |   |   |   |
| Lymph Node, Mesenteric           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Ectasia                          |   |   |   |   |   | 4 |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Histiocytic         |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   | 3 |   |   |   |   |
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |   |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |
| Lymphoid Follicle, Hyperplasia   |   | 3 |   |   | 1 | 3 | 2 | 2 |   |   | 3 | 2 | 2 | 3 | 3 |   | 3 | 4 | 1 | 2 | 2 |   |   |   |   |
| Thymus                           | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia, Lymphoid            |   | 2 |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 3 | 3 |   | 2 |   |   |   |   |   |   |

INTEGUMENTARY SYSTEM

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

\* .. Total animals with tissue examined microscopically; Total animals with lesion 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. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| DAY ON TEST                                   | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|   | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
| 7   | 7         | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 0 |                      |
| 3   | 3         | 3 | 3 | 3 | 2 | 2 | 2 | 6 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 9 | 2 | 8 | 0                    |
| 3   | 3         | 3 | 3 | 3 | 9 | 9 | 9 | 3 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 2 | 9 | 4 | 0                    |
| <hr/>   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| <b>B6C3F1 MICE FEMALE</b><br><b>25000 PPM</b> | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                    |
|   | 5         | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 3                    |
|   | 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 | 3                    |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Glands, Degeneration, Cystic<br>Glands, Inflammation<br>Respiratory Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Trachea<br>Glands, Degeneration, Cystic   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |

**SPECIAL SENSES SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A |
| Harderian Gland<br>Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                                       | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney<br>Infiltration Cellular, Lymphocyte<br>Nephropathy<br>Renal Tubule, Accumulation, Hyaline<br>Droplet | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   | 2 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 |   |
|  |   |   |   | 1 | 1 | 1 |   |   | 1 |   | 1 |   | 1 | 1 |   |   |   |   |   |   |   | 1 | 1 |   |   |
| Urinary Bladder<br>Infiltration Cellular, Lymphocyte   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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  
 Page 112



TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

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First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

|                                       | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | * TOTALS |  |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|--|
|                                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |          |  |
| <b>B6C3F1 MICE FEMALE</b>             | 5           | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5  |          |  |
| <b>25000 PPM</b>                      | 2           | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4  |          |  |
|                                       | 1           | 7 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 4  |          |  |
|                                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |          |  |
|                                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |          |  |
|                                       | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4  |          |  |
|                                       | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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        |  |
|                                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
| Infarct                               | 2           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0    |  |
| Infiltration Cellular, Lymphocyte     |             | 1 |   |   | 1 |   |   |   |   |   |   |   | 2 | 1 |   |   | 1 |   | 1 | 1 | 1 |   | 1 |    | 21 1.1   |  |
| Infiltration Cellular, Mixed Cell     |             |   |   | 1 |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   | 1 |   |   |   |   |    | 6 1.2    |  |
| Inflammation, Acute                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0    |  |
| Mixed Cell Focus                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X | X |   |   |   |    | 4        |  |
| Hepatocyte, Vacuolization Cytoplasmic |             |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 2 |   |   |   | 4 |    | 4 2.0    |  |
| Kupffer Cell, Pigmentation            |             |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |    | 1 2.0    |  |
| Mesentery                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
| Fat, Necrosis                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | 2  | 2 2.5    |  |
| Pancreas                              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Atrophy                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0    |  |
| Cyst                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1        |  |
| Infiltration Cellular, Lymphocyte     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 2.0    |  |
| Acinus, Cytoplasmic Alteration        |             |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0    |  |
| Salivary Glands                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Infiltration Cellular, Lymphocyte     |             |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    | 3 1.0    |  |
| Stomach, Forestomach                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Infiltration Cellular, Lymphocyte     |             |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |    | 1 2.0    |  |
| Ulcer                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |    | 2 2.0    |  |
| Epithelium, Hyperplasia               | 2           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |    | 2 2.0    |  |
| Stomach, Glandular                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Cyst                                  |             |   | X | X |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 6        |  |
| Glands, Ectasia                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0    |  |

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

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| 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 |          | 0 |
|                           | 5 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5        |   |
|                           | 2 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4        |   |
|                           | 1 | 7 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 4        |   |
| <b>B6C3F1 MICE FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |   |
| <b>25000 PPM</b>          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |   |
| ANIMAL ID                 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4        |   |
|                           | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0        |   |
|                           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0        |   |

**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 1  |     |
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Cardiomyopathy | 1 |   | 1 |   | 1 |   |   | 1 | 1 |   | 1 | 2 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 |   | 33 | 1.2 |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |   |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|---|-----|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |   |     |
| Degeneration, Cystic              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 4.0 |     |   |     |
| Hypertrophy, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |     |   |     |
| Vacuolization Cytoplasmic         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3   | 2.0 |   |     |
| Capsule, Hyperplasia              | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 1 | 49 | 2.0 |     |   |     |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |   |     |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |   |     |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0 |     |   |     |
| Parathyroid Gland                 | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | +  | 47  |     |   |     |
| Cyst                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   |     |   |     |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |   |     |
| Pars Distalis, Cyst               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3   |     |   |     |
| Pars Distalis, Hyperplasia, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2   | 2   | 2 | 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 115

TDMS No. 99007 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008

Time Report Requested: 12:25:59

First Dose M/F: 05/12/03 / 05/12/03

Lab: SRI

| DAY ON TEST                     | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                                 | 5 3 7 7 7 7 7 7 7 7 7 7 7 6 7 7 7 7 7 7 7 7 7 5   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B6C3F1 MICE FEMALE<br>25000 PPM | 2 0 3 3 3 3 3 3 3 3 3 3 3 3 9 3 3 3 3 3 3 3 3 4   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                 | 1 7 3 3 3 6 6 6 6 6 6 6 6 5 6 6 6 6 6 6 3 3 3 4   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANIMAL ID                       | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                 | 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                 | 3 4   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                 | 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 0   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                 | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* TOTALS

|                               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |
|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Thyroid Gland                 | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50     |
| Follicle, Cyst                |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2      |
| Follicle, Degeneration, Focal |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 1.6 |
| Follicular Cell, Hyperplasia  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 1.0  |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |
|-----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Clitoral Gland              | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50     |
| Ovary                       | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50     |
| Cyst                        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12     |
| Hemorrhage                  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 1.8  |
| Bilateral, Cyst             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1      |
| Corpus Luteum, Hyperplasia  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 2.5  |
| Granulosa Cell, Hyperplasia |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 2.0  |
| Uterus                      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50     |
| Fibrosis                    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 2.0  |
| Hyperplasia, Cystic         |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 44 2.4 |
| Inflammation, Suppurative   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 2.0  |
| Myometrium, Hypertrophy     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 3.0  |

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|                                  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |     |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----------------|-----|
|                                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |                 |     |
|                                  | 5           | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5  |                 |     |
|                                  | 2           | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4  |                 |     |
|                                  | 1           | 7 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 4  |                 |     |
| <b>B6C3F1 MICE FEMALE</b>        | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |                 |     |
| <b>25000 PPM</b>                 | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |                 |     |
|                                  | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4  |                 |     |
|                                  | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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  | <b>* TOTALS</b> |     |
| Bone Marrow                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |                 |     |
| Depletion Cellular               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0             |     |
| Hyperplasia                      |             |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3.5             |     |
| Myelofibrosis                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  | 1.6             |     |
| Lymph Node                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | +  | 4               |     |
| Lymph Node, Mandibular           | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 |                 |     |
| Hyperplasia, Lymphoid            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |    | 7               |     |
| Lymph Node, Mesenteric           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 49 |                 |     |
| Ectasia                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 4.0             |     |
| Hyperplasia, Histiocytic         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0             |     |
| Hyperplasia, Lymphoid            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  | 2.8             |     |
| Spleen                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |                 |     |
| Hematopoietic Cell Proliferation | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 | 3 |   |   |   |   |   |   |   | 4  | 2.8             |     |
| Lymphoid Follicle, Hyperplasia   |             |   |   |   |   | 3 | 2 | 1 |   |   |   |   |   |   | 3 |   |   |   | 2 |   |   | 3 | 3 | 22 | 2.4             |     |
| Thymus                           | +           | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |                 |     |
| Hyperplasia, Lymphoid            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |    | 7               |     |
|                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |    | 2.3             |     |
| <b>INTEGUMENTARY SYSTEM</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |     |
| Mammary Gland                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50              |     |
| Skin                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50              |     |
| Mineralization                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1               | 2.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

| 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 |          | 0 |
| 5                         | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5        |   |
| 2                         | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4        |   |
| 1                         | 7 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 4        |   |
| <b>B6C3F1 MICE FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |   |
| <b>25000 PPM</b>          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |   |
| ANIMAL ID                 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4        |   |
|                           | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0        |   |
|                           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0        |   |

Pigmentation 2 **1 2.0**  
 Subcutaneous Tissue, Infiltration Cellular, Lymphocyte **1 3.0**

**MUSCULOSKELETAL SYSTEM**

Bone + **50**  
 Maxilla, Fibrosis **1 3.0**

**NERVOUS SYSTEM**

Brain + **50**  
 Peripheral Nerve **2**  
 Spinal Cord **2**

**RESPIRATORY SYSTEM**

Lung + **50**  
 Hemorrhage **1 2.0**  
 Hyperplasia, Lymphoid **1 3.0**  
 Infiltration Cellular, Histiocyte **1 1.0**  
 Infiltration Cellular, Lymphocyte 2 **2 2.0**  
 Nose + **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  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
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TDMS No. 99007 - 06  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 08/14/2008  
 Time Report Requested: 12:25:59  
 First Dose M/F: 05/12/03 / 05/12/03  
 Lab: SRI

|   | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |               |                 |              |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---|---|---|---|---|---|---|---|---------------|-----------------|--------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             |                 |              |
|   | 5           | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6            | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5             |                 |              |
|   | 2           | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9            | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4             |                 |              |
|   | 1           | 7 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5            | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 4             |                 |              |
| <b>B6C3F1 MICE FEMALE</b>                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             |                 |              |
| <b>25000 PPM</b>                            | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0             |                 |              |
|   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3            | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4             |                 |              |
|   | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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             | <b>* TOTALS</b> |              |
| Glands, Degeneration, Cystic                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   | 2             | <b>1 2.0</b>    |              |
| Glands, Inflammation                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |               | 2               | <b>1 2.0</b> |
| Respiratory Epithelium, Hyperplasia         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |               |                 | <b>1 1.0</b> |
| Trachea                                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | +            | + | + | + | + | + | + | + | + | +             | <b>50</b>       |              |
| Glands, Degeneration, Cystic                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |               |                 | <b>1 3.0</b> |
| <b>SPECIAL SENSES SYSTEM</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |               |                 |              |
| Eye   | +           | A | + | + | + | + | + | + | + | + | + | + | + | A | +            | + | + | + | + | + | + | + | + | +             | <b>46</b>       |              |
| Harderian Gland                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | +            | + | + | + | + | + | + | + | + | +             | <b>50</b>       |              |
| Hyperplasia, Focal                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |               |                 | <b>2 1.5</b> |
| <b>URINARY SYSTEM</b>                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |               |                 |              |
| Kidney                                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | +            | + | + | + | + | + | + | + | + | +             | <b>50</b>       |              |
| Infiltration Cellular, Lymphocyte           |             |   |   |   | 1 | 2 |   | 1 |   |   |   | 1 |   |   |              |   | 2 |   | 1 |   | 1 |   |   | <b>9 1.4</b>  |                 |              |
| Nephropathy                                 |             |   |   | 1 | 1 |   | 1 |   |   |   |   |   |   |   | 1            |   | 2 |   |   |   |   |   |   | <b>15 1.1</b> |                 |              |
| Renal Tubule, Accumulation, Hyaline Droplet |             |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   | 2             |                 | <b>2 2.5</b> |
| Urinary Bladder                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | +            | + | + | + | + | + | + | + | + | +             | <b>50</b>       |              |
| Infiltration Cellular, Lymphocyte           |             |   |   |   |   |   |   |   |   |   |   |   | 1 |   | <b>3 1.3</b> |   |   |   |   |   |   |   |   |               |                 |              |

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