

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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

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B6C3F1 MICE MALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice		3	2	3
Natural Death	7	9	3	2
Survivors				
Natural Death		1		
Terminal Sacrifice	43	37	45	45
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Intestine Large, Cecum	(47)	(46)	(48)	(50)
Intestine Small, Duodenum	(44)	(43)	(47)	(50)
Intestine Small, Jejunum	(46)	(43)	(47)	(48)
Hyperplasia, Lymphoid	1 (2%)	1 (2%)	3 (6%)	2 (4%)
Epithelium, Hyperplasia				1 (2%)
Liver	(50)	(50)	(50)	(50)
Angiectasis				1 (2%)
Basophilic Focus	1 (2%)	3 (6%)	3 (6%)	3 (6%)
Clear Cell Focus	10 (20%)	10 (20%)	11 (22%)	12 (24%)
Cyst		1 (2%)		1 (2%)
Eosinophilic Focus	7 (14%)	14 (28%)	14 (28%)	24 (48%)
Fibrosis			1 (2%)	
Hematopoietic Cell Proliferation		1 (2%)	1 (2%)	
Hemorrhage		1 (2%)		
Hepatodiaphragmatic Nodule	1 (2%)	1 (2%)		
Infiltration Cellular, Lymphocyte	1 (2%)	1 (2%)	4 (8%)	3 (6%)
Infiltration Cellular, Mixed Cell	3 (6%)	6 (12%)	3 (6%)	4 (8%)
Mixed Cell Focus	1 (2%)	7 (14%)	9 (18%)	6 (12%)
Necrosis, Focal	2 (4%)	3 (6%)	5 (10%)	6 (12%)
Tension Lipidosis		1 (2%)		
Bile Duct, Hyperplasia		1 (2%)		
Hepatocyte, Hyperplasia, Focal			1 (2%)	
Hepatocyte, Hypertrophy			1 (2%)	
Hepatocyte, Vacuolization Cytoplasmic	6 (12%)	11 (22%)	15 (30%)	7 (14%)
Hepatocyte, Vacuolization Cytoplasmic, Focal			1 (2%)	
Kupffer Cell, Pigmentation	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Mesentery	(6)	(3)	(12)	(1)
Fibrosis	1 (17%)		1 (8%)	1 (100%)
Inflammation, Suppurative		1 (33%)	1 (8%)	
Fat, Necrosis	5 (83%)	1 (33%)	6 (50%)	

a - Number of animals examined microscopically at site and number of animals with lesion

B6C3F1 MICE MALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Pancreas	(49)	(50)	(50)	(50)
Atrophy			1 (2%)	
Cyst			1 (2%)	
Infiltration Cellular, Lymphocyte				1 (2%)
Acinus, Cytoplasmic Alteration	2 (4%)	5 (10%)		2 (4%)
Acinus, Hyperplasia, Focal	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Inflammation, Chronic	1 (2%)			
Ulcer	1 (2%)	2 (4%)		
Epithelium, Hyperplasia	3 (6%)	5 (10%)	3 (6%)	2 (4%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Cyst		5 (10%)	3 (6%)	1 (2%)
Edema		1 (2%)		
Erosion	1 (2%)			4 (8%)
Epithelium, Hyperplasia				1 (2%)
Glands, Cyst	1 (2%)			

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	45 (90%)	42 (84%)	44 (88%)	44 (88%)
Thrombosis	1 (2%)			
Artery, Inflammation, Chronic	1 (2%)			

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule		1 (2%)	1 (2%)	
Hypertrophy			3 (6%)	
Hypertrophy, Focal	13 (26%)	18 (36%)	10 (20%)	5 (10%)
Capsule, Hyperplasia	39 (78%)	37 (74%)	41 (82%)	37 (74%)
Adrenal Medulla	(50)	(50)	(50)	(49)
Hyperplasia			1 (2%)	
Islets, Pancreatic	(49)	(50)	(50)	(50)
Hyperplasia	4 (8%)	12 (24%)	11 (22%)	4 (8%)
Parathyroid Gland	(45)	(45)	(47)	(49)
Cyst			3 (6%)	
Pituitary Gland	(50)	(49)	(49)	(50)
Pars Distalis, Cyst	2 (4%)	2 (4%)	1 (2%)	3 (6%)
Pars Distalis, Hyperplasia, Focal	2 (4%)			1 (2%)
Thyroid Gland	(50)	(50)	(50)	(50)
Follicle, Cyst		2 (4%)	4 (8%)	

B6C3F1 MICE MALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Follicle, Degeneration, Focal Follicular Cell, Hyperplasia	5 (10%)	6 (12%)	6 (12%)	4 (8%) 1 (2%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(0)	(1)	(0)	(0)
Inflammation, Suppurative		1 (100%)		
Epididymis	(50)	(50)	(50)	(50)
Cyst		1 (2%)		
Granuloma Sperm			1 (2%)	
Preputial Gland	(50)	(50)	(50)	(50)
Atrophy			1 (2%)	
Cyst	19 (38%)	17 (34%)	25 (50%)	13 (26%)
Hyperplasia		1 (2%)	4 (8%)	2 (4%)
Inflammation, Suppurative	1 (2%)	3 (6%)	4 (8%)	2 (4%)
Inflammation, Chronic	1 (2%)	4 (8%)	3 (6%)	2 (4%)
Bilateral, Cyst			1 (2%)	
Prostate	(50)	(50)	(50)	(50)
Inflammation, Suppurative		1 (2%)		
Inflammation, Granulomatous			1 (2%)	
Inflammation, Chronic		2 (4%)		
Epithelium, Hyperplasia	2 (4%)	1 (2%)	1 (2%)	3 (6%)
Seminal Vesicle	(50)	(50)	(50)	(50)
Inflammation, Suppurative		1 (2%)		
Testes	(50)	(50)	(50)	(50)
Germinal Epithelium, Atrophy	1 (2%)		5 (10%)	2 (4%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Angiectasis	1 (2%)			
Depletion Cellular		1 (2%)		
Hyperplasia	6 (12%)	17 (34%)	14 (28%)	14 (28%)
Lymph Node	(2)	(5)	(2)	(2)
Bronchial, Hyperplasia				1 (50%)
Iliac, Hemorrhage	1 (50%)			
Pancreatic, Hemorrhage		1 (20%)		
Renal, Hemorrhage		1 (20%)		
Lymph Node, Mandibular	(46)	(46)	(50)	(49)

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B6C3F1 MICE MALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Atrophy			1 (2%)	
Hyperplasia, Lymphoid		3 (7%)	2 (4%)	2 (4%)
Lymph Node, Mesenteric	(48)	(44)	(49)	(48)
Atrophy		1 (2%)		
Hemorrhage		1 (2%)		
Hyperplasia, Histiocytic	2 (4%)		1 (2%)	1 (2%)
Hyperplasia, Lymphoid	3 (6%)	2 (5%)	2 (4%)	2 (4%)
Hyperplasia, Plasma Cell			1 (2%)	
Spleen	(50)	(49)	(50)	(50)
Atrophy		2 (4%)	1 (2%)	
Hematopoietic Cell Proliferation	23 (46%)	33 (67%)	27 (54%)	20 (40%)
Hyperplasia	2 (4%)			1 (2%)
Lymphoid Follicle, Hyperplasia	4 (8%)	3 (6%)	4 (8%)	3 (6%)
Thymus	(44)	(39)	(43)	(41)
Atrophy	3 (7%)	8 (21%)	1 (2%)	2 (5%)
Cyst			2 (5%)	
Hyperplasia, Lymphoid		1 (3%)		
Necrosis, Lymphoid				1 (2%)
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion			1 (2%)	
Inflammation, Chronic	1 (2%)	1 (2%)		
Ulcer		1 (2%)		
Epidermis, Hyperplasia	1 (2%)	1 (2%)		
Hair Follicle, Cyst	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Cranium, Hyperostosis	1 (2%)			
Maxilla, Fibrosis		1 (2%)		
Skeletal Muscle	(0)	(1)	(3)	(0)
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)

a - Number of animals examined microscopically at site and number of animals with lesion

B6C3F1 MICE MALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Edema		1 (2%)		
Fibrosis	1 (2%)			
Infiltration Cellular, Histiocyte	2 (4%)		1 (2%)	2 (4%)
Infiltration Cellular, Lymphocyte	3 (6%)			1 (2%)
Alveolar Epithelium, Hyperplasia	6 (12%)	2 (4%)	3 (6%)	5 (10%)
Nose	(50)	(50)	(50)	(50)
Inflammation, Suppurative			1 (2%)	
Glands, Degeneration, Cystic		1 (2%)		
Nasolacrimal Duct, Inflammation, Suppurative	1 (2%)			
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(46)	(50)	(49)	(50)
Cataract			1 (2%)	
Inflammation, Acute	1 (2%)			
Cornea, Inflammation, Chronic		1 (2%)		
Harderian Gland	(50)	(50)	(50)	(50)
Atrophy			1 (2%)	
Hyperplasia	1 (2%)			
Hyperplasia, Focal		1 (2%)		1 (2%)
Infiltration Cellular, Lymphocyte			1 (2%)	
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Cyst	4 (8%)	3 (6%)	9 (18%)	2 (4%)
Glomerulosclerosis			1 (2%)	
Hydronephrosis		1 (2%)		
Infarct	2 (4%)	4 (8%)		1 (2%)
Infiltration Cellular, Lymphocyte	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Inflammation, Suppurative	1 (2%)	1 (2%)		
Metaplasia, Osseous	1 (2%)	1 (2%)	2 (4%)	3 (6%)
Nephropathy	42 (84%)	43 (86%)	46 (92%)	48 (96%)
Thrombosis	1 (2%)			
Bilateral, Hydronephrosis		1 (2%)		
Papilla, Inflammation, Suppurative			1 (2%)	
Papilla, Necrosis		1 (2%)		
Renal Tubule, Accumulation, Hyaline Droplet			1 (2%)	
Renal Tubule, Pigmentation				2 (4%)
Urinary Bladder	(49)	(50)	(50)	(50)
Calculus Gross Observation		1 (2%)		
Hemorrhage				1 (2%)
Infiltration Cellular, Lymphocyte		1 (2%)	1 (2%)	1 (2%)

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B6C3F1 MICE MALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Inflammation, Chronic		1 (2%)		
Transitional Epithelium, Hyperplasia		1 (2%)		

*** END OF MALE ***

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B6C3F1 MICE FEMALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	4	2	2	3
Natural Death	1	4	12	4
Survivors				
Natural Death	1			
Terminal Sacrifice	44	44	36	43
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Gallbladder	(48)	(46)	(39)	(47)
Inflammation, Chronic		1 (2%)		
Intestine Large, Cecum	(48)	(46)	(41)	(47)
Cyst				1 (2%)
Intestine Large, Rectum	(48)	(47)	(43)	(47)
Intestine Small, Ileum	(48)	(46)	(39)	(47)
Hyperplasia, Lymphoid	1 (2%)			
Intestine Small, Jejunum	(48)	(46)	(43)	(48)
Hyperplasia, Lymphoid		1 (2%)	2 (5%)	
Inflammation, Suppurative			1 (2%)	
Liver	(50)	(50)	(49)	(50)
Angiectasis				1 (2%)
Basophilic Focus	1 (2%)		3 (6%)	1 (2%)
Clear Cell Focus		2 (4%)		2 (4%)
Cyst			1 (2%)	2 (4%)
Eosinophilic Focus	3 (6%)	3 (6%)	2 (4%)	4 (8%)
Hematopoietic Cell Proliferation	3 (6%)	2 (4%)	2 (4%)	1 (2%)
Hepatodiaphragmatic Nodule				1 (2%)
Infarct				1 (2%)
Infiltration Cellular, Lymphocyte	24 (48%)	24 (48%)	26 (53%)	21 (42%)
Infiltration Cellular, Mixed Cell	7 (14%)	9 (18%)	10 (20%)	6 (12%)
Inflammation, Acute				1 (2%)
Mixed Cell Focus		3 (6%)	2 (4%)	4 (8%)
Necrosis, Focal	1 (2%)	1 (2%)		
Tension Lipidosis	3 (6%)	1 (2%)		
Capsule, Fibrosis			1 (2%)	
Hepatocyte, Vacuolization Cytoplasmic	1 (2%)	3 (6%)	7 (14%)	4 (8%)
Kupffer Cell, Pigmentation				1 (2%)
Mesentery	(10)	(6)	(9)	(2)
Hemorrhage	1 (10%)		1 (11%)	

B6C3F1 MICE FEMALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Infiltration Cellular, Lymphocyte Fat, Necrosis	8 (80%)	6 (100%)	1 (11%) 7 (78%)	2 (100%)
Pancreas	(48)	(48)	(47)	(50)
Atrophy	1 (2%)	1 (2%)		1 (2%)
Cyst	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Infiltration Cellular, Lymphocyte Inflammation, Granulomatous, Chronic		1 (2%)		2 (4%)
Acinus, Cytoplasmic Alteration	4 (8%)	2 (4%)	1 (2%)	1 (2%)
Artery, Inflammation			1 (2%)	
Salivary Glands	(50)	(50)	(50)	(50)
Fibrosis	1 (2%)	1 (2%)	1 (2%)	
Infiltration Cellular, Lymphocyte	2 (4%)	2 (4%)	5 (10%)	3 (6%)
Stomach, Forestomach	(49)	(50)	(48)	(50)
Cyst			2 (4%)	
Edema		1 (2%)		
Infiltration Cellular, Lymphocyte Inflammation, Granulomatous, Chronic		1 (2%)	1 (2%)	1 (2%)
Inflammation, Chronic	1 (2%)			
Ulcer		1 (2%)	2 (4%)	2 (4%)
Epithelium, Hyperplasia		3 (6%)	3 (6%)	2 (4%)
Stomach, Glandular	(49)	(49)	(48)	(50)
Cyst	7 (14%)	4 (8%)	2 (4%)	6 (12%)
Ulcer			1 (2%)	
Glands, Ectasia				1 (2%)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	39 (78%)	38 (76%)	37 (74%)	33 (66%)
Mineralization	1 (2%)			
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(48)	(50)
Accessory Adrenal Cortical Nodule	1 (2%)			
Angiectasis		1 (2%)	1 (2%)	
Degeneration, Cystic	1 (2%)		2 (4%)	1 (2%)
Degeneration, Fatty		1 (2%)		
Hematopoietic Cell Proliferation	1 (2%)			
Hyperplasia, Focal	1 (2%)	1 (2%)		
Hypertrophy, Focal	1 (2%)	1 (2%)		4 (8%)
Inflammation, Granulomatous, Chronic		1 (2%)		
Vacuolization Cytoplasmic				1 (2%)
Capsule, Hyperplasia	49 (98%)	50 (100%)	47 (98%)	49 (98%)

B6C3F1 MICE FEMALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Adrenal Medulla	(50)	(50)	(49)	(50)
Amyloid Deposition			1 (2%)	
Hyperplasia	1 (2%)	2 (4%)	2 (4%)	
Islets, Pancreatic	(48)	(49)	(48)	(50)
Hyperplasia	4 (8%)	2 (4%)	1 (2%)	1 (2%)
Parathyroid Gland	(45)	(44)	(48)	(47)
Cyst		1 (2%)		1 (2%)
Infiltration Cellular, Lymphocyte	1 (2%)	1 (2%)		
Pituitary Gland	(50)	(49)	(49)	(49)
Angiectasis	1 (2%)	1 (2%)	1 (2%)	
Pars Distalis, Cyst			2 (4%)	3 (6%)
Pars Distalis, Hyperplasia, Focal	8 (16%)	5 (10%)	6 (12%)	4 (8%)
Thyroid Gland	(50)	(50)	(48)	(50)
Inflammation, Suppurative		1 (2%)		
Follicle, Cyst		3 (6%)	2 (4%)	2 (4%)
Follicle, Degeneration, Focal	18 (36%)	18 (36%)	16 (33%)	10 (20%)
Follicular Cell, Hyperplasia			1 (2%)	1 (2%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(49)	(50)
Cyst	2 (4%)	3 (6%)	4 (8%)	
Ovary	(49)	(48)	(50)	(50)
Angiectasis		1 (2%)		
Cyst	10 (20%)	14 (29%)	10 (20%)	12 (24%)
Hemorrhage	10 (20%)	6 (13%)	7 (14%)	5 (10%)
Mineralization			1 (2%)	
Pigmentation			1 (2%)	
Thrombosis		1 (2%)	1 (2%)	
Bilateral, Cyst		1 (2%)		1 (2%)
Corpus Luteum, Hyperplasia	4 (8%)	1 (2%)		2 (4%)
Granulosa Cell, Hyperplasia				2 (4%)
Uterus	(50)	(49)	(50)	(50)
Fibrosis				1 (2%)
Hyperplasia, Cystic	48 (96%)	46 (94%)	45 (90%)	44 (88%)
Infiltration Cellular, Histiocyte		1 (2%)		
Inflammation, Suppurative	1 (2%)			1 (2%)
Inflammation, Granulomatous, Chronic		1 (2%)		
Thrombosis		2 (4%)	1 (2%)	
Myometrium, Hypertrophy				1 (2%)

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B6C3F1 MICE FEMALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(50)	(50)	(50)
Depletion Cellular				1 (2%)
Hyperplasia	2 (4%)	2 (4%)	1 (2%)	2 (4%)
Inflammation, Chronic			1 (2%)	
Myelofibrosis	6 (12%)	1 (2%)	5 (10%)	5 (10%)
Lymph Node	(6)	(4)	(5)	(4)
Iliac, Hyperplasia, Lymphoid			1 (20%)	
Pancreatic, Hyperplasia, Lymphoid	1 (17%)		1 (20%)	
Renal, Hyperplasia, Lymphoid	1 (17%)		1 (20%)	
Lymph Node, Mandibular	(50)	(49)	(48)	(49)
Hyperplasia, Lymphoid	6 (12%)	2 (4%)	4 (8%)	7 (14%)
Pigmentation	1 (2%)			
Lymph Node, Mesenteric	(48)	(43)	(48)	(49)
Ectasia		3 (7%)	3 (6%)	2 (4%)
Hyperplasia, Histiocytic	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Hyperplasia, Lymphoid	4 (8%)	1 (2%)	3 (6%)	4 (8%)
Inflammation, Granulomatous, Chronic		1 (2%)		
Spleen	(48)	(48)	(47)	(49)
Atrophy			1 (2%)	
Hematopoietic Cell Proliferation	5 (10%)	7 (15%)	8 (17%)	4 (8%)
Lymphoid Follicle, Hyperplasia	24 (50%)	26 (54%)	18 (38%)	22 (45%)
Thymus	(49)	(48)	(50)	(48)
Atrophy		1 (2%)	1 (2%)	
Hemorrhage	1 (2%)			
Hyperplasia, Lymphoid	4 (8%)	2 (4%)	4 (8%)	7 (15%)
Necrosis, Lymphoid		1 (2%)		
INTEGUMENTARY SYSTEM				
Mammary Gland	(49)	(49)	(48)	(50)
Cyst		1 (2%)		
Hyperplasia		1 (2%)		
Skin	(50)	(50)	(50)	(50)
Edema	1 (2%)			
Mineralization				1 (2%)
Pigmentation				1 (2%)
Subcutaneous Tissue, Infiltration Cellular, Lymphocyte				1 (2%)
MUSCULOSKELETAL SYSTEM				

a - Number of animals examined microscopically at site and number of animals with lesion

B6C3F1 MICE FEMALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
Bone	(50)	(50)	(50)	(50)
Fracture			1 (2%)	
Maxilla, Fibrosis				1 (2%)
Skeletal Muscle	(1)	(1)	(2)	(0)
Necrosis			1 (50%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression		1 (2%)		
Hemorrhage			1 (2%)	
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Foreign Body			1 (2%)	
Hemorrhage	2 (4%)		2 (4%)	1 (2%)
Hyperplasia, Lymphoid				1 (2%)
Infiltration Cellular, Histiocyte				1 (2%)
Infiltration Cellular, Lymphocyte	7 (14%)	2 (4%)	1 (2%)	2 (4%)
Inflammation, Suppurative			1 (2%)	
Inflammation, Chronic	1 (2%)			
Metaplasia, Osseous	1 (2%)			
Alveolar Epithelium, Hyperplasia	1 (2%)	3 (6%)	2 (4%)	
Nose	(50)	(50)	(50)	(50)
Foreign Body			1 (2%)	
Inflammation, Suppurative			1 (2%)	
Glands, Degeneration, Cystic			2 (4%)	1 (2%)
Glands, Inflammation				1 (2%)
Respiratory Epithelium, Hyperplasia				1 (2%)
Trachea	(50)	(50)	(49)	(50)
Glands, Degeneration, Cystic				1 (2%)
SPECIAL SENSES SYSTEM				
Eye	(49)	(47)	(41)	(46)
Atrophy	1 (2%)			
Cornea, Inflammation, Suppurative	1 (2%)			
Harderian Gland	(50)	(49)	(50)	(50)
Hyperplasia			1 (2%)	
Hyperplasia, Focal	5 (10%)	2 (4%)	4 (8%)	2 (4%)
Inflammation, Chronic	1 (2%)			

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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

B6C3F1 MICE FEMALE	0 PPM	3000 PPM	9000 PPM	25000 PPM
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(50)
Atrophy		1 (2%)		
Casts Protein	2 (4%)		1 (2%)	
Cyst	1 (2%)			
Hydronephrosis		1 (2%)		
Infarct		1 (2%)	3 (6%)	
Infiltration Cellular, Lymphocyte	7 (14%)	7 (14%)	4 (8%)	9 (18%)
Metaplasia, Osseous	1 (2%)	1 (2%)	1 (2%)	
Nephropathy	13 (26%)	19 (39%)	15 (30%)	15 (30%)
Renal Tubule, Accumulation, Hyaline Droplet				2 (4%)
Renal Tubule, Dilatation		1 (2%)		
Transitional Epithelium, Hyperplasia		1 (2%)		
Urinary Bladder	(49)	(49)	(50)	(50)
Infiltration Cellular, Lymphocyte	7 (14%)	6 (12%)	5 (10%)	3 (6%)

*** END OF REPORT ***