TDMS No. 20005 - 06 Test Type: CHRONIC Route: GAVAGE P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

Species/Strain: MICE/B6C3F1

F1\_Rev.1\_M3

**C Number:** C20005

**Lock Date:** 10/10/2006

Cage Range: ALL

Date Range: ALL

**Reasons For Removal:** ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

**TDMSE Version:** 2.1.0

Test Type: CHRONIC

**TDMS No.** 20005 - 06

Route: GAVAGE

Species/Strain: MICE/B6C3F1

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

B6C3F1 MICE MALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
Disposition Summary					
Animals Initially in Study	50	50	50	50	
Early Deaths					
Accidently Killed			_	1	
Moribund Sacrifice	12	10 7	8 4	8	
Natural Death Survivors	6	,	4	8	
Moribund Sacrifice		1			
Natural Death		•		1	
Terminal Sacrifice	32	32	38	32	
Animals Examined Microscopically	50	50	50	50	
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(50)	
Arteriole, Periesophageal Tissue,	(30)	1 (2%)	(30)	(30)	
Inflammation		. (270)			
Periesophageal Tissue, Inflammation			1 (2%)		
Gallbladder	(49)	(50)	(49)	(50)	
Cyst	1 (2%)		1 (2%)		
Inflammation	(==)	(==)	(==)	2 (4%)	
Intestine Large, Cecum	(50)	(50)	(50)	(50)	
Inflammation	(50)	1 (2%)	(FO)	(50)	
Intestine Large, Colon Serosa, Inflammation	(50) 1 (2%)	(50)	(50)	(50)	
Intestine Small, Duodenum	(50)	(50)	(50)	(50)	
Intestine Small, Ileum	(50)	(50)	(50)	(50)	
Inflammation		(/	1 (2%)	1 (2%)	
Serosa, Inflammation	1 (2%)		, ,	, ,	
Intestine Small, Jejunum	(50)	(50)	(50)	(50)	
Inflammation			1 (2%)	0 (40)	
Peyer's Patch, Hyperplasia Serosa, Inflammation	4 /00/\			2 (4%)	
Serosa, Inflammation Liver	1 (2%) (50)	(50)	(50)	(50)	
Amyloid Deposition	1 (2%)	(30)	(30)	(50)	
Angiectasis	1 (2%)	1 (2%)			
Basophilic Focus	3 (6%)	3 (6%)	4 (8%)	1 (2%)	
Clear Cell Focus	11 (22%)	21 (42%)	21 (42%)	16 (32%)	
Eosinophilic Focus	17 (34%)	16 (32%)	18 (36%)	21 (42%)	
Fibrosis	1 (2%)				
Hyperplasia, Regenerative	1 (2%)			4 (00()	
Infarct				1 (2%)	

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

**TDMS No.** 20005 - 06 Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

B6C3F1 MICE MALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
Infiltration Cellular, Lymphocyte			1 (2%)		
Inflammation	8 (16%)	4 (8%)	7 (14%)	3 (6%)	
Mixed Cell Focus	8 (16%)	6 (12%)	5 (10%)	5 (10%)	
Tension Lipidosis	2 (4%)	3 (6%)	3 (6%)	1 (2%)	
Thrombosis	(/	- (,	1 (2%)	(,	
Bile Duct, Inflammation			(=7-7)	1 (2%)	
Hepatocyte, Atypia Cellular	1 (2%)	1 (2%)		(=73)	
Hepatocyte, Necrosis	3 (6%)	4 (8%)	4 (8%)	1 (2%)	
Hepatocyte, Vacuolization Cytoplasmic,	12 (24%)	15 (30%)	11 (22%)	17 (34%)	
Diffuse	12 (2170)	10 (0070)	11 (2270)	11 (0 170)	
Kupffer Cell, Pigmentation, Hemosiderin		1 (2%)			
Mesentery	(3)	(4)	(6)	(0)	
Necrosis	2 (67%)	2 (50%)	4 (67%)	(~)	
Artery, Inflammation	2 (07 70)	1 (25%)	4 (07 70)		
Pancreas	(50)	(50)	(50)	(50)	
Basophilic Focus	1 (2%)	1 (2%)	1 (2%)	(50)	
Infiltration Cellular, Lipocyte	1 (2%)	1 (270)	1 (276)		
Salivary Glands	(50)	(50)	(50)	(50)	
Infiltration Cellular, Mononuclear Cell	(50)	(30)	1 (2%)	(30)	
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Erosion	(50)	(50)		(30)	
Inflammation	1 (2%)		1 (2%) 2 (4%)		
	1 (2%)	4 (20()		4 (00/)	
Ulcer	2 (4%)	1 (2%)	5 (10%)	1 (2%)	
Epithelium, Diverticulum	1 (2%)	4 (00()	0 (00()	0 (40/)	
Epithelium, Hyperplasia	5 (10%)	4 (8%)	3 (6%)	2 (4%)	
Epithelium, Hyperplasia, Focal	(50)	1 (2%)	(50)	(50)	
Stomach, Glandular	(50)	(50)	(50)	(50)	
Inflammation	( ( ( ( ) )		1 (2%)		
Ulcer	1 (2%)	4 (00()	1 (2%)	4 (00()	
Epithelium, Mineralization	(12)	1 (2%)	1 (2%)	1 (2%)	
Tooth	(13)	(15)	(9)	(13)	
Dysplasia	11 (85%)	11 (73%)	8 (89%)	10 (77%)	
ARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(48)	(50)	(50)	
Inflammation	ζ/	1 (2%)	\ /	(/	
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	42 (84%)	43 (86%)	45 (90%)	41 (82%)	
Hemorrhage	(0 . 70)	1 (2%)	(50,0)	()	
Inflammation		2 (4%)			
Mineralization	1 (2%)	_ ( . , . ,	1 (2%)		
Artery, Inflammation	. (=,0)	3 (6%)	. (= /3)		
Artery, Mineralization		1 (2%)			
Ventricle, Thrombosis		. (270)		1 (2%)	
				· (= /0)	

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

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

B6C3F1 MICE MALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
ENDOCRINE SYSTEM					
Adrenal Cortex Hyperplasia Hypertrophy Subcapsular, Hyperplasia, Focal Adrenal Medulla Hyperplasia Islets, Pancreatic Hyperplasia Parathyroid Gland Cyst Pituitary Gland Pars Distalis, Cyst Pars Distalis, Hyperplasia	(50) 10 (20%) 28 (56%) 1 (2%) (50) 2 (4%) (50) 38 (76%) (49) (50) 2 (4%) 3 (6%)	(50) 16 (32%) 24 (48%) (50) (50) 38 (76%) (48) (50) 1 (2%) 4 (8%)	(50) 16 (32%) 31 (62%)  (50) 1 (2%) (50) 38 (76%) (45) 1 (2%) (50) 1 (2%) 2 (4%)	(50) 6 (12%) 35 (70%) (50) (50) 40 (80%) (48) (50) 5 (10%) 3 (6%)	
Pars Intermedia, Hyperplasia Thyroid Gland Follicle, Cyst	1 (2%) (50) 1 (2%)	(50)	(50) 2 (4%)	(50)	
GENERAL BODY SYSTEM  None					
GENITAL SYSTEM					
Epididymis Granuloma Sperm Inflammation Preputial Gland Inflammation Duct, Ectasia Prostate Inflammation Epithelium, Hyperplasia Seminal Vesicle Dilatation Inflammation Testes Mineralization	(50) 2 (4%) 2 (4%) (50) 5 (10%) 9 (18%) (50) 3 (6%)  (50)	(50) 4 (8%) 4 (8%) (50) 6 (12%) 7 (14%) (50)	(50) 1 (2%) 6 (12%) (50) 4 (8%) 6 (12%) (50) 2 (4%)  (50) 1 (2%)	(50) 1 (2%) 2 (4%) (50) 8 (16%) 12 (24%) (50)  1 (2%) (50)  1 (2%) (50)	
Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia	2 (4%)	4 (8%) 1 (2%)	5 (10%)	4 (8%)	

TDMS No. 20005 - 06 Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

B6C3F1 MICE MALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Hyperplasia	1 (2%)	4-3	1 (2%)	4.13	
Lymph Node	(2)	(2)	(2)	(1)	
Inguinal, Hyperplasia, Plasma Cell	(50)	(50)	(50)	1 (100%)	
Lymph Node, Mandibular Hyperplasia, Plasma Cell	(50) 1 (2%)	(50)	(50)	(50)	
Lymph Node, Mesenteric	(50)	(49)	(50)	(50)	
Hemorrhage	(00)	1 (2%)	(88)	(88)	
Hyperplasia, Lymphoid	1 (2%)	( /		1 (2%)	
Hyperplasia, Plasma Cell	1 (2%)		1 (2%)	, ,	
Necrosis		1 (2%)			
Artery, Inflammation	(50)	1 (2%)	(50)	(50)	
Spleen Hematopoietic Cell Proliferation	(50) 2 (4%)	(50) 5 (10%)	(50) 7 (14%)	(50) 6 (12%)	
Hyperplasia, Lymphoid	7 (14%)	11 (22%)	11 (22%)	4 (8%)	
Lymphoid Follicle, Atrophy	5 (10%)	7 (14%)	1 (2%)	4 (8%)	
Red Pulp, Atrophy	1 (2%)	(,	(/	(===)	
Vein, Inflammation		1 (2%)			
Thymus	(47)	(50)	(50)	(49)	
Cyst		4 (20()	1 (2%)		
Inflammation Arteriole, Inflammation		1 (2%) 1 (2%)			
Artenole, illiamination		1 (270)			
INTEGUMENTARY SYSTEM					
Skin	(50)	(50)	(50)	(50)	
Inflammation		1 (2%)	` ,	2 (4%)	
Ulcer	2 (4%)	1 (2%)	1 (2%)	2 (4%)	
Subcutaneous Tissue, Edema		1 (2%)			
MUSCULOSKELETAL SYSTEM					
Skeletal Muscle	(1)	(1)	(0)	(0)	
NERVOUS SYSTEM					
	<b>/</b> \	<b>/</b> >	(5.7)	(=0)	
Brain	(50)	(50)	(50)	(50)	
Hemorrhage Hippocampus, Neuron, Necrosis		1 (2%)	1 (20/.)		
r iippodampus, medion, mediosis			1 (2%)		

TDMS No. 20005 - 06 Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

TDMS No. 20005 - 06 Test Type: CHRONIC

Route: GAVAGE
Species/Strain: MICE/B6C3F1

Ginseng CAS Number: 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

B6C3F1 MICE MALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
Meninges, Hemorrhage				1 (2%)	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Hemorrhage	1 (2%)	0 (40()	2 (4%)	4 (00()	
Inflammation	4 (8%)	2 (4%)	2 (4%)	1 (2%)	
Pigmentation, Hemosiderin Thrombosis	1 (2%)		2 (4%)	1 (2%) 1 (2%)	
Alveolar Epithelium, Hyperplasia	3 (6%)	1 (2%)	6 (12%)	1 (276)	
Alveolus, Infiltration Cellular, Histiocyte	0 (070)	1 (270)	0 (1270)	1 (2%)	
Arteriole, Inflammation	1 (2%)			-	
Nose	(50)	(49)	(49)	(50)	
Inflammation	6 (12%)	5 (10%)	7 (14%)	6 (12%)	
Polyp, Inflammatory	(==)	3 (6%)	(==)	(==)	
Trachea	(50)	(50)	(50)	(50)	
SPECIAL SENSES SYSTEM					
Eye	(50)	(50)	(50)	(50)	
Cornea, Inflammation	3 (6%)	3 (6%)	1 (2%)	3 (6%)	
Optic Nerve, Atrophy	1 (2%)	( ,	( ,	- ()	
Retina, Dysplasia	1 (2%)			1 (2%)	
Retina, Hemorrhage	<b>/</b> >	1 (2%)	4	()	
Harderian Gland	(50)	(50)	(50)	(50)	
Hyperplasia Inflammation		2 (4%)	1 (2%) 1 (2%)	1 (2%)	
imanination			1 (2%)		
JRINARY SYSTEM					
Kidney	(50)	(50)	(50)	(50)	
Cyst	9 (18%)	6 (12%)	7 (14%)	7 (14%)	
Hydronephrosis	2 (4%)	2 (4%)	3 (6%)	3 (6%)	
Infarct	1 (2%)	0 (40()	1 (2%)	4 (8%)	
Inflammation	2 (4%)	2 (4%)	1 (2%)	1 (2%)	
Metaplasia, Osseous Mineralization			2 (4%) 2 (4%)		
Nephropathy	48 (96%)	47 (94%)	48 (96%)	47 (94%)	
Arteriole, Inflammation	<del>40</del> (30 /0)	1 (2%)	70 (00 /u)	71 (07/0)	
Artery, Inflammation		2 (4%)	1 (2%)		
Papilla, Necrosis	1 (2%)	, ,	· · · /		
Pelvis, Inflammation	. ,	1 (2%)		1 (2%)	
Renal Tubule, Hyperplasia		2 (4%)	2 (4%)		

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

TDMS No. 20005 - 06 Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

Route: GAVAGE

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

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20

First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

B6C3F1 MICE MALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG
Vein, Inflammation Urinary Bladder Inflammation Transitional Epithelium, Hyperplasia	(50) 1 (2%) 1 (2%)	(50)	1 (2%) (50) 1 (2%)	(50)

\*\*\* END OF MALE \*\*\*

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths			4	4
Dosing Accident Moribund Sacrifice	7	11	1 10	4 8
Natural Death	5	8	5	6
Survivors	<b>G</b>	G	· ·	ŭ
Terminal Sacrifice	38	31	34	32
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Perforation		, ,	2 (4%)	, ,
Muscularis, Degeneration	1 (2%)			
Periesophageal Tissue, Inflammation			3 (6%)	1 (2%)
Gallbladder	(49)	(50)	(50)	(50)
Cyst		2 (4%)	1 (2%)	1 (2%)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(49)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Angiectasis	2 (4%)		2 (4%)	0 (40/)
Basophilic Focus	1 (2%)	2 (00/)	2 (40/)	2 (4%)
Clear Cell Focus	4 (8%)	3 (6%)	2 (4%)	2 (4%)
Eosinophilic Focus	15 (30%)	14 (28%)	3 (6%)	9 (18%)
Hyperplasia, Regenerative Infiltration Cellular, Lymphocyte		1 (2%)	1 (2%)	
Inflammation Cellular, Lymphocyte Inflammation	14 (28%)	11 (22%)	10 (20%)	14 (28%)
Mixed Cell Focus	2 (4%)	5 (10%)	2 (4%)	2 (4%)
Tension Lipidosis	2 (4%)	5 (10%)	2 (4%) 4 (8%)	8 (16%)
Thrombosis	2 (470)	3 (1070)	1 (2%)	1 (2%)
Hepatocyte, Atypia Cellular		1 (2%)	1 (2/0)	1 (270)
Hepatocyte, Necrosis	4 (8%)	2 (4%)		1 (2%)
Hepatocyte, Vacuolization Cytoplasmic,	8 (16%)	10 (20%)	10 (20%)	5 (10%)
Diffuse	0 (1070)	10 (2070)	10 (2070)	0 (1070)
Mesentery	(8)	(9)	(7)	(4)
Inflammation	ν-/	ν-/	1 (14%)	` '
Necrosis	8 (100%)	8 (89%)	5 (71%)	4 (100%)
Fat, Necrosis	,	` ,	1 (14%)	,

TDMS No. 20005 - 06 Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

Test Type: CHRONIC

**TDMS No.** 20005 - 06

Route: GAVAGE
Species/Strain: MICE/B6C3F1

Ginseng CAS Number: 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

B6C3F1 MICE FEMALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
Pancreas	(50)	(50)	(50)	(50)	
Basophilic Focus		2 (4%)			
Hemorrhage		1 (2%)			
Infiltration Cellular, Lipocyte		3 (6%)			
Inflammation		2 (4%)			
Acinus, Hyperplasia	4 (8%)	1 (2%)	1 (2%)		
Artery, Inflammation			1 (2%)		
Duct, Cyst	1 (2%)				
Salivary Glands	(50)	(50)	(50)	(50)	
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Infiltration Cellular, Mast Cell			1 (2%)		
Inflammation		1 (2%)	1 (2%)		
Ulcer		,	1 (2%)		
Epithelium, Hyperplasia	2 (4%)	2 (4%)	3 (6%)	4 (8%)	
Epithelium, Hyperplasia, Focal	` ,	1 (2%)	2 (4%)	,	
Stomach, Glandular	(50)	(50)	(50)	(50)	
Erosion	()	1 (2%)	1 (2%)	()	
Ulcer		(=75)	1 (2%)		
Epithelium, Mineralization	1 (2%)	1 (2%)	(=,,,		
RDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(50)	(50)	(50)	
Inflammation	1 (2%)		1 (2%)	1 (2%)	
Mineralization		1 (2%)			
Media, Hyperplasia	1 (2%)				
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	35 (70%)	40 (80%)	38 (76%)	31 (62%)	
Inflammation		2 (4%)	3 (6%)	1 (2%)	
Mineralization		2 (4%)			
Artery, Inflammation				2 (4%)	
Atrium, Thrombosis		1 (2%)			
		4 (00()			
Epicardium, Hyperplasia		1 (2%)			
Myocardium, Hyperplasia, Reticulum Cell	1 (2%)	, ,			
Epicardium, Hyperplasia Myocardium, Hyperplasia, Reticulum Cell Valve, Thrombosis	• •	1 (2%) 2 (4%)			
Myocardium, Hyperplasia, Reticulum Cell	1 (2%) 1 (2%)	, ,		1 (2%)	
Myocardium, Hyperplasia, Reticulum Cell Valve, Thrombosis Ventricle, Thrombosis	• •	, ,		1 (2%)	
Myocardium, Hyperplasia, Reticulum Cell Valve, Thrombosis Ventricle, Thrombosis	1 (2%)	2 (4%)	(50)		
Myocardium, Hyperplasia, Reticulum Cell Valve, Thrombosis Ventricle, Thrombosis  DOCRINE SYSTEM  Adrenal Cortex	1 (2%)	2 (4%)	(50)	(50)	
Myocardium, Hyperplasia, Reticulum Cell Valve, Thrombosis Ventricle, Thrombosis  DOCRINE SYSTEM  Adrenal Cortex Hyperplasia	1 (2%) (50) 8 (16%)	(50) 1 (2%)	3 (6%)	(50) 6 (12%)	
Myocardium, Hyperplasia, Reticulum Cell Valve, Thrombosis Ventricle, Thrombosis  DOCRINE SYSTEM  Adrenal Cortex Hyperplasia Hypertrophy	1 (2%) (50) 8 (16%) 39 (78%)	(50) 1 (2%) 40 (80%)	3 (6%) 39 (78%)	(50) 6 (12%) 39 (78%)	
Myocardium, Hyperplasia, Reticulum Cell Valve, Thrombosis Ventricle, Thrombosis  DOCRINE SYSTEM  Adrenal Cortex Hyperplasia	1 (2%) (50) 8 (16%)	(50) 1 (2%)	3 (6%)	(50) 6 (12%)	

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

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
Hyperplasia	3 (6%)	3 (6%)	6 (12%)	2 (4%)	
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Hyperplasia	16 (32%)	15 (30%)	17 (34%)	15 (30%)	
Parathyroid Gland	(41)	(44)	(39)	(43)	
Hyperplasia	( ,	( /	()	1 (2%)	
Pituitary Gland	(50)	(50)	(50)	(49)	
Pars Distalis, Cyst	,	2 (4%)	` ,	,	
Pars Distalis, Hyperplasia	18 (36%)	18 (36%)	19 (38%)	18 (37%)	
Thyroid Gland	(49)	(50)	(50)	(50)	
Inflammation	,	, ,	, ,	1 (2%)	
C-cell, Hyperplasia			1 (2%)	` ,	
Follicle, Cyst		1 (2%)	2 (4%)	1 (2%)	
				. , ,	
SENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Clitoral Gland	(50)	(50)	(49)	(50)	
Inflammation	(00)	(00)	(40)	1 (2%)	
Ovary	(50)	(50)	(50)	(50)	
Cyst	4 (8%)	7 (14%)	6 (12%)	2 (4%)	
Hemorrhage	4 (070)	1 (2%)	2 (4%)	1 (2%)	
Inflammation	2 (4%)	1 (270)	2 (4%)	1 (270)	
Thrombosis	1 (2%)		2 (170)		
Uterus	(50)	(50)	(50)	(50)	
Angiectasis	(55)	1 (2%)	(55)	1 (2%)	
Atrophy		1 (2%)		(= / 5/	
Hemorrhage	1 (2%)	(=75)		1 (2%)	
Hydrometra	( /		1 (2%)	( /	
Inflammation	2 (4%)	2 (4%)	2 (4%)		
Thrombosis	,	,	1 (2%)		
Endometrium, Decidual Reaction			1 (2%)		
Endometrium, Hyperplasia, Cystic	47 (94%)	40 (80%)	35 (70%)	43 (86%)	
Myometrium, Atypia Cellular	1 (2%)	,	. ,	, ,	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(49)	(50)	
Angiectasis	1 (2%)	(30)	(49)	(50)	
Hyperplasia	1 (2/0)		1 (2%)	2 (4%)	
Lymph Node	(4)	(4)	(6)	(6)	
Lymphitiodo	(4)	(4)	(0)	(0)	

TDMS No. 20005 - 06 Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
Hyperplasia			1 (17%)		
Iliac, Hemorrhage			1 (17%)		
Lumbar, Hyperplasia, Plasma Cell	1 (25%)				
Renal, Degeneration, Cystic		- 4		1 (17%)	
Renal, Hemorrhage	(50)	2 (50%)	1 (17%)	(50)	
Lymph Node, Mandibular	(50)	(49)	(50)	(50)	
Amyloid Deposition Hyperplasia			1 (2%)	1 (2%) 1 (2%)	
Hyperplasia, Lymphoid			1 (2%)	1 (2%)	
Infiltration Cellular, Histiocyte			2 (4%)		
Lymph Node, Mesenteric	(49)	(50)	(50)	(50)	
Degeneration, Cystic	(10)	1 (2%)	(00)	(00)	
Hemorrhage		1 (2%)			
Hyperplasia, Lymphoid		1 (2%)			
Infiltration Cellular, Histiocyte		` '	2 (4%)		
Inflammation			2 (4%)	1 (2%)	
Spleen	(50)	(50)	(49)	(50)	
Amyloid Deposition			1 (2%)		
Atrophy	4 (00()	0 (404)	0 (40()	1 (2%)	
Hematopoietic Cell Proliferation	4 (8%)	2 (4%)	2 (4%)	2 (4%)	
Hyperplasia, Lymphoid Hyperplasia, Plasma Cell	22 (44%)	23 (46%)	24 (49%) 1 (2%)	12 (24%)	
Infarct	1 (2%)		1 (2/8)		
Lymphoid Follicle, Atrophy	2 (4%)	1 (2%)	4 (8%)	3 (6%)	
Thymus	(48)	(49)	(49)	(49)	
Cyst	1 (2%)	(12)	(15)	( /	
Hyperplasia, Lymphoid	,			1 (2%)	
Infiltration Cellular, Mast Cell			1 (2%)	, ,	
Inflammation			1 (2%)		
TEGUMENTARY SYSTEM					
Mammary Gland	(50)	(50)	(50)	(50)	
Hyperplasia, Focal	4 (00()	2 (4%)	3 (6%)	2 (4%)	
Inflammation Skin	1 (2%)	(50)	(50)	(50)	
Inflammation	(50) 1 (2%)	(50)	(50) 1 (2%)	(50)	
Ulcer	1 (2%)	1 (2%)	I (470)		
Subcutaneous Tissue, Fibrosis	2 (4%)	4 (8%)	1 (2%)	1 (2%)	
JSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Femur, Fibro-Osseous Lesion		4 (8%)	2 (4%)	4 (8%)	

TDMS No. 20005 - 06 Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

Ginseng

**CAS Number:** 50647-08-0

Date Report Requested: 06/24/2009 Time Report Requested: 13:38:20 First Dose M/F: 02/10/04 / 02/09/04

Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG	
NERVOUS SYSTEM					
Brain Hydrocephalus Inflammation Artery, Inflammation	(50)	(50) 2 (4%) 1 (2%)	(50) 1 (2%) 1 (2%)	(50)	
Meninges, Inflammation Spinal Cord Degeneration	(0)	(1)	1 (2%) 1 (2%) (1)	(1) 1 (100%)	
RESPIRATORY SYSTEM					
Lung Congestion	(50)	(50)	(50)	(50) 3 (6%)	
Hemorrhage Inflammation Thrombosis	2 (4%)	1 (2%) 6 (12%)	1 (2%) 2 (4%) 2 (4%)	6 (12%)	
Alveolar Epithelium, Hyperplasia Alveolus, Infiltration Cellular, Histiocyte	2 (4%)	3 (6%)	2 (4%) 2 (4%)	1 (2%)	
Nose Inflammation	(50) 1 (2%)	(50)	(50) 4 (8%)	(49) 3 (6%)	
SPECIAL SENSES SYSTEM					
Eye Developmental Malformation	(49) 1 (2%)	(50)	(50)	(50)	
Cornea, Inflammation Optic Nerve, Degeneration	2 (4%)	1 (2%)	3 (6%)	1 (2%)	
Harderian Gland Hyperplasia	(49) 2 (4%)	(50) 1 (2%)	(50) 1 (2%)	(50)	
JRINARY SYSTEM					
Kidney Cyst	(50)	(50) 1 (2%)	(50)	(50)	
Infarct Inflammation Metaplasia, Osseous	7 (14%)	2 (4%) 2 (4%) 3 (6%)	2 (4%)	6 (12%) 1 (2%)	
Mineralization Nephropathy Arteriole, Inflammation	39 (78%)	1 (2%) 39 (78%)	38 (76%)	33 (66%) 1 (2%)	

**TDMS No.** 20005 - 06

Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

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

TDMS No. 20005 - 06 Test Type: CHRONIC

Species/Strain: MICE/B6C3F1

Route: GAVAGE

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

Ginseng

**CAS Number:** 50647-08-0

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Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG
Artery, Inflammation Urinary Bladder Inflammation	(49)	1 (2%) (50)	1 (2%) (50)	(50) 1 (2%)

\*\*\* END OF REPORT \*\*\*