

**Experiment Number:** 20005-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/B6C3F1

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

**Test Compound:** Ginseng  
**CAS Number:** 50647-08-0

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:02:12  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C20005  
**Lock Date:** 10/28/2003  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** NONE

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 First Dose M/F: NA / NA  
 Lab: BAT

B6C3F1 Mouse MALE	0	MG/KG	1000	MG/KG	2000	MG/KG	3000	MG/KG	4000	MG/KG	5000	MG/KG
<b>Disposition Summary</b>												
Animals Initially In Study	10		10		10		10		10		10	
Early Deaths												
Survivors												
Terminal Sacrifice	10		10		10		10		10		10	
Animals Examined Microscopically	10		10		10		10		10		10	
<b>ALIMENTARY SYSTEM</b>												
Esophagus	(10)		(0)		(0)		(0)		(0)		(10)	
Gallbladder	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Large, Cecum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Large, Colon	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Large, Rectum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Small, Duodenum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Small, Ileum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Small, Jejunum	(10)		(0)		(0)		(0)		(0)		(10)	
Liver	(10)		(0)		(0)		(0)		(0)		(10)	
Inflammation	9 [1.0]										7 [1.0]	
Mixed Cell Focus	1											
Necrosis, Focal											1 [2.0]	
Pancreas	(10)		(0)		(0)		(0)		(0)		(10)	
Salivary Glands	(10)		(0)		(0)		(0)		(0)		(10)	
Stomach, Forestomach	(10)		(0)		(0)		(0)		(0)		(10)	
Stomach, Glandular	(10)		(0)		(0)		(0)		(0)		(10)	
Cyst	1											
<b>CARDIOVASCULAR SYSTEM</b>												
Blood Vessel	(10)		(0)		(0)		(0)		(0)		(10)	
Heart	(10)		(0)		(0)		(0)		(0)		(10)	

a - Number of animals examined microscopically at site and number of animals with lesion  
 b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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First Dose M/F: NA / NA

Lab: BAT

B6C3F1 Mouse MALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Subcapsular, Hyperplasia	4 [1.3]					6 [1.2]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(6)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation						1 [1.0]
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(9)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Skin	(10)	(1)	(0)	(0)	(0)	(10)
Hyperplasia, Squamous		1 [2.0]				
Inflammation		1 [3.0]				

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 Time Report Requested: 18:02:12  
 First Dose M/F: NA / NA  
 Lab: BAT

B6C3F1 Mouse MALE	0	MG/KG	1000	MG/KG	2000	MG/KG	3000	MG/KG	4000	MG/KG	5000	MG/KG
<b>MUSCULOSKELETAL SYSTEM</b>												
Bone	(10)		(0)		(0)		(0)		(0)		(10)	
<b>NERVOUS SYSTEM</b>												
Brain	(10)		(0)		(0)		(0)		(0)		(10)	
<b>RESPIRATORY SYSTEM</b>												
Lung	(10)		(0)		(0)		(0)		(0)		(10)	
Inflammation											1 [1.0]	
Nose	(10)		(0)		(0)		(0)		(0)		(10)	
Degeneration											1 [3.0]	
Lateral Wall, Inflammation											1 [1.0]	
Septum, Inflammation											1 [2.0]	
Turbinate, Inflammation											1 [2.0]	
Trachea	(10)		(0)		(0)		(0)		(0)		(10)	
<b>SPECIAL SENSES SYSTEM</b>												
Eye	(10)		(0)		(0)		(0)		(0)		(10)	
Harderian Gland	(10)		(0)		(0)		(0)		(0)		(10)	
<b>URINARY SYSTEM</b>												
Kidney	(10)		(0)		(0)		(0)		(0)		(10)	
Inflammation											2 [1.0]	
Mineralization											1 [1.0]	
Renal Tubule, Vacuolization Cytoplasmic											9 [1.8]	
Urinary Bladder	(10)		(0)		(0)		(0)		(0)		(10)	
Infiltration Cellular, Mononuclear CI											1 [1.0]	
											4 [1.0]	

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

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 Lab: BAT

B6C3F1 Mouse FEMALE	0	MG/KG	1000	MG/KG	2000	MG/KG	3000	MG/KG	4000	MG/KG	5000	MG/KG
<b>Disposition Summary</b>												
Animals Initially In Study	10		10		10		10		10		10	
Early Deaths												
Survivors												
Terminal Sacrifice	10		10		10		10		10		10	
Animals Examined Microscopically	10											10
<b>ALIMENTARY SYSTEM</b>												
Esophagus	(10)		(0)		(0)		(0)		(0)		(10)	
Gallbladder	(9)		(0)		(0)		(0)		(0)		(10)	
Inflammation											1 [1.0]	
Intestine Large, Cecum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Large, Colon	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Large, Rectum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Small, Duodenum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Small, Ileum	(10)		(0)		(0)		(0)		(0)		(10)	
Intestine Small, Jejunum	(10)		(0)		(0)		(0)		(0)		(10)	
Liver	(10)		(0)		(0)		(0)		(0)		(10)	
Hematopoietic Cell Proliferation	7 [1.0]										3 [1.0]	
Inflammation	9 [1.1]										8 [1.0]	
Necrosis	1 [1.0]											
Pancreas	(10)		(0)		(0)		(0)		(0)		(10)	
Salivary Glands	(10)		(0)		(0)		(0)		(0)		(10)	
Stomach, Forestomach	(10)		(0)		(0)		(0)		(0)		(10)	
Stomach, Glandular	(10)		(0)		(0)		(0)		(0)		(10)	
<b>CARDIOVASCULAR SYSTEM</b>												
Blood Vessel	(10)		(0)		(0)		(0)		(0)		(10)	
Heart	(10)		(0)		(0)		(0)		(0)		(10)	
Thrombosis											1 [2.0]	

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<b>B6C3F1 Mouse FEMALE</b>	<b>0</b>	<b>MG/KG</b>	<b>1000</b>	<b>MG/KG</b>	<b>2000</b>	<b>MG/KG</b>	<b>3000</b>	<b>MG/KG</b>	<b>4000</b>	<b>MG/KG</b>	<b>5000</b>	<b>MG/KG</b>
<b>ENDOCRINE SYSTEM</b>												
Adrenal Cortex	(10)		(0)		(0)		(0)		(0)		(10)	
Subcapsular, Hyperplasia	10 [1.9]										10 [2.0]	
Vacuolization Cytoplasmic	6 [1.5]										9 [1.4]	
Adrenal Medulla	(10)		(0)		(0)		(0)		(0)		(10)	
Islets, Pancreatic	(10)		(0)		(0)		(0)		(0)		(10)	
Parathyroid Gland	(7)		(0)		(0)		(0)		(0)		(8)	
Pituitary Gland	(10)		(0)		(0)		(0)		(0)		(10)	
Cyst	1										1	
Thyroid Gland	(10)		(0)		(0)		(0)		(0)		(10)	
Infiltration Cellular, Mononuclear Cl	1 [2.0]											
<b>GENERAL BODY SYSTEM</b>												
None												
<b>GENITAL SYSTEM</b>												
Clitoral Gland	(10)		(0)		(0)		(0)		(0)		(10)	
Ovary	(10)		(0)		(0)		(0)		(0)		(10)	
Uterus	(10)		(0)		(0)		(0)		(0)		(10)	
<b>HEMATOPOIETIC SYSTEM</b>												
Bone Marrow	(10)		(0)		(0)		(0)		(0)		(10)	
Lymph Node, Mandibular	(9)		(0)		(0)		(0)		(0)		(10)	
Lymph Node, Mesenteric	(10)		(0)		(0)		(0)		(0)		(10)	
Spleen	(10)		(0)		(0)		(0)		(0)		(10)	
Hematopoietic Cell Proliferation											1 [2.0]	
Lymph Follic, Depletion Cellular											1 [2.0]	
Thymus	(10)		(0)		(0)		(0)		(0)		(9)	
<b>INTEGUMENTARY SYSTEM</b>												
Mammary Gland	(10)		(0)		(0)		(0)		(0)		(10)	

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<b>B6C3F1 Mouse FEMALE</b>	<b>0</b>	<b>MG/KG</b>	<b>1000</b>	<b>MG/KG</b>	<b>2000</b>	<b>MG/KG</b>	<b>3000</b>	<b>MG/KG</b>	<b>4000</b>	<b>MG/KG</b>	<b>5000</b>	<b>MG/KG</b>
Skin	(10)		(0)		(0)		(0)		(0)		(10)	
<b>MUSCULOSKELETAL SYSTEM</b>												
Bone	(10)		(0)		(0)		(0)		(0)		(10)	
<b>NERVOUS SYSTEM</b>												
Brain	(10)		(0)		(0)		(0)		(0)		(10)	
<b>RESPIRATORY SYSTEM</b>												
Lung	(10)		(0)		(0)		(0)		(0)		(10)	
Inflammation	2 [1.0]										1 [2.0]	
Nose	(10)		(0)		(0)		(0)		(0)		(10)	
Trachea	(10)		(0)		(0)		(0)		(0)		(10)	
<b>SPECIAL SENSES SYSTEM</b>												
Eye	(10)		(0)		(0)		(0)		(0)		(10)	
Harderian Gland	(10)		(0)		(0)		(0)		(0)		(10)	
<b>URINARY SYSTEM</b>												
Kidney	(10)		(0)		(0)		(0)		(0)		(10)	
Inflammation	1 [1.0]										2 [1.0]	
Mineralization											1 [1.0]	
Urinary Bladder	(10)		(0)		(0)		(0)		(0)		(10)	
Infiltration Cellular, Mononuclear CI	3 [1.0]										2 [1.0]	

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

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)