

**Experiment Number:** 99031 - 02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

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

Ginkgo biloba extract  
**CAS Number:** 90045-36-6

**Date Report Requested:** 09/12/2016  
**Time Report Requested:** 13:11:35  
**First Dose M/F:** 02/12/04 / 02/11/04  
**Lab:** BAT

**NTP Study Number:** C99031  
**Lock Date:** 10/07/2004  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

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B6C3F1 MICE MALE	0 MG/KG	125 MG/KG	250 MG/KG	500 MG/KG	1000 MG/KG	2000 MG/KG
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Early Deaths</b>						
<b>Survivors</b>						
<b>Terminal Sacrifice</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Animals Examined Microscopically</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Focal						1 (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)	(10)	(10)	(10)	(10)	(10)
Inflammation	8 (80%)	6 (60%)	9 (90%)	10 (100%)	9 (90%)	10 (100%)
Necrosis, Focal			1 (10%)		5 (50%)	9 (90%)
Artery, Inflammation, Chronic						1 (10%)
Hepatocyte, Hypertrophy			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Lymphocyte	1 (10%)					1 (10%)
Duct, Mineralization	1 (10%)					
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

## CARDIOVASCULAR SYSTEM

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

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B6C3F1 MICE MALE	0 MG/KG	125 MG/KG	250 MG/KG	500 MG/KG	1000 MG/KG	2000 MG/KG
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	4 (40%)					
Subcapsular, Hyperplasia	6 (60%)					4 (40%)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(7)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(9)	(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)
Infiltration Cellular, Lymphocyte	1 (10%)					2 (20%)
Inflammation						1 (10%)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Germinal Epithelium, Degeneration, Diffuse	1 (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)

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

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B6C3F1 MICE MALE	0 MG/KG	125 MG/KG	250 MG/KG	500 MG/KG	1000 MG/KG	2000 MG/KG
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(4)	(0)	(0)	(0)	(0)	(4)
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)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation						1 (10%)
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 (10%)	1 (10%)	4 (40%)	9 (90%)	8 (80%)	5 (50%)
Olfactory Epithelium, Atrophy			1 (10%)	2 (20%)	5 (50%)	3 (30%)
Olfactory Epithelium, Pigmentation				7 (70%)	7 (70%)	8 (80%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 (10%)	3 (30%)	4 (40%)	9 (90%)	2 (20%)	4 (40%)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Optic Nerve, Infiltration Cellular, Lymphocyte	1 (10%)					
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)

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B6C3F1 MICE MALE	0 MG/KG	125 MG/KG	250 MG/KG	500 MG/KG	1000 MG/KG	2000 MG/KG
<hr/>						
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Crystals					1 (10%)	
Inflammation	2 (20%)				1 (10%)	
Mineralization	1 (10%)			1 (10%)	3 (30%)	3 (30%)
Nephropathy	3 (30%)		5 (50%)	4 (40%)	6 (60%)	5 (50%)
Cortex, Vacuolization Cytoplasmic	10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

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B6C3F1 MICE FEMALE	0 MG/KG	125 MG/KG	250 MG/KG	500 MG/KG	1000 MG/KG	2000 MG/KG
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Early Deaths</b>						
<b>Dosing Accident</b>					<b>1</b>	
<b>Survivors</b>						
<b>Terminal Sacrifice</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>9</b>	<b>10</b>
<b>Animals Examined Microscopically</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(1)	(10)
Muscularis, Inflammation						1 (10%)
Gallbladder	(10)	(0)	(0)	(0)	(1)	(10)
Mucosa, Cyst						1 (10%)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Large, Rectum	(9)	(0)	(0)	(0)	(1)	(10)
Inflammation	1 (11%)					
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(1)	(10)
Intestine Small, Jejunum	(9)	(0)	(0)	(0)	(1)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation	10 (100%)	10 (100%)	9 (90%)	10 (100%)	9 (90%)	9 (90%)
Necrosis, Focal						1 (10%)
Hepatocyte, Hypertrophy			4 (40%)	10 (100%)	9 (90%)	10 (100%)
Pancreas	(10)	(0)	(0)	(0)	(1)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(1)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(1)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(1)	(10)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(9)	(0)	(0)	(0)	(1)	(10)
Adventitia, Aorta, Inflammation, Acute					1 (100%)	

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Aorta, Inflammation, Chronic Active	1 (11%)					
Heart	(9)	(0)	(0)	(0)	(1)	(10)
Vacuolization Cytoplasmic						1 (10%)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(9)	(0)	(0)	(0)	(1)	(10)
Accessory Adrenal Cortical Nodule	1 (11%)					1 (10%)
Hyperplasia	1 (11%)					2 (20%)
Subcapsular, Hyperplasia	8 (89%)				1 (100%)	8 (80%)
Adrenal Medulla	(9)	(0)	(0)	(0)	(1)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(1)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(1)	(9)
Pituitary Gland	(9)	(0)	(0)	(0)	(1)	(10)
Thyroid Gland	(9)	(0)	(0)	(0)	(1)	(10)
Infiltration Cellular, Mononuclear Cell						1 (10%)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(9)	(0)	(0)	(0)	(1)	(10)
Ovary	(10)	(0)	(0)	(0)	(1)	(10)
Uterus	(10)	(0)	(0)	(0)	(1)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(1)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(1)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(1)	(8)
Spleen	(10)	(0)	(0)	(0)	(1)	(10)

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Lymphoid Follicle, Atrophy, Diffuse Thymus Necrosis, Diffuse	(9)	(0)	(0)	(0)	1 (100%) (1)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(0)	(1)	(10)
Skin Inflammation, Chronic Active	(10) 1 (10%)	(0)	(0)	(0)	(1)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(1)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(1)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung Interstitium, Inflammation, Acute Perivascular, Inflammation	(10)	(0)	(0)	(0)	(1) 1 (100%)	(10) 1 (10%)
Nose Inflammation	(10)	(10)	(10)	(10)	(10) 1 (10%)	(10) (10)
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 (10%)	7 (70%)	3 (30%)	6 (60%)	8 (80%)	5 (50%)
Olfactory Epithelium, Atrophy					5 (50%)	1 (10%)
Olfactory Epithelium, Pigmentation				3 (30%)	7 (70%)	6 (60%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	2 (20%)	4 (40%)	4 (40%)	6 (60%)	9 (90%)	8 (80%)
Trachea Inflammation, Acute	(10)	(0)	(0)	(0)	(1) 1 (100%)	(10)

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B6C3F1 MICE FEMALE	0 MG/KG	125 MG/KG	250 MG/KG	500 MG/KG	1000 MG/KG	2000 MG/KG
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SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(1)	(10)
Harderian Gland	(9)	(0)	(0)	(0)	(1)	(10)
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URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(1)	(10)
Inflammation	1 (10%)					
Mineralization	3 (30%)					3 (30%)
Nephropathy	2 (20%)					
Urinary Bladder	(10)	(0)	(0)	(0)	(1)	(10)

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

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