



Experiment Number: 00058 - 04  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1/N

**P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)**  
 Black Cohosh  
 CAS Number: 84776-26-1

Date Report Requested: 12/10/2020  
 Time Report Requested: 11:32:38  
 First Dose M/F: NA / 04/09/12  
 Lab: BAT

B6C3F1/N MICE FEMALE	0 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg
<b>Disposition Summary</b>					
Animals Initially In Study	70	70	70	70	70
Early Deaths					
Accidentally Killed				1	
Moribund Sacrifice	4	2	3	3	6
Natural Death	6	8	3	7	6
Survivors					
Natural Death		1			
Terminal Sacrifice	40	39	44	39	38
Animals Examined Microscopically	50	50	50	50	50

**ALIMENTARY SYSTEM**

Esophagus	(50)	(50)	(50)	(50)	(50)
Gallbladder	(46)	(50)	(50)	(49)	(50)
Lymphoma Malignant				1 (2%)	2 (4%)
Intestine Large, Cecum	(50)	(50)	(50)	(50)	(50)
Lymphoma Malignant	1 (2%)				
Intestine Large, Colon	(50)	(50)	(50)	(50)	(50)
Lymphoma Malignant	1 (2%)				
Intestine Large, Rectum	(50)	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)	(50)
Lymphoma Malignant		2 (4%)		2 (4%)	2 (4%)
Liver	(50)	(50)	(50)	(50)	(50)
Hemangiosarcoma		1 (2%)	1 (2%)		
Hepatocellular Adenoma	1 (2%)	9 (18%)	3 (6%)	4 (8%)	4 (8%)
Hepatocellular Adenoma, Multiple	5 (10%)		1 (2%)		
Hepatocellular Carcinoma	3 (6%)	3 (6%)		2 (4%)	1 (2%)
Histiocytic Sarcoma	2 (4%)	2 (4%)	2 (4%)	1 (2%)	
Leukemia Mononuclear	1 (2%)			1 (2%)	
Lymphoma Malignant	5 (10%)	3 (6%)	5 (10%)	7 (14%)	4 (8%)
Osteosarcoma, Metastatic, Uncertain Primary Site	1 (2%)				

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

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Stellate Cell Tumor, Benign				1 (2%)	
Mesentery	(6)	(2)	(0)	(2)	(1)
Hemangiosarcoma, Metastatic, Spleen	1 (17%)				
Histiocytic Sarcoma		1 (50%)		1 (50%)	
Lymphoma Malignant	1 (17%)			1 (50%)	1 (100%)
Pancreas	(50)	(50)	(50)	(49)	(50)
Histiocytic Sarcoma		1 (2%)			
Leiomyosarcoma, Metastatic, Uterus				1 (2%)	
Lymphoma Malignant	5 (10%)	2 (4%)	3 (6%)	1 (2%)	
Salivary Glands	(50)	(50)	(50)	(50)	(50)
Lymphoma Malignant	1 (2%)	1 (2%)	1 (2%)	1 (2%)	5 (10%)
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Lymphoma Malignant		1 (2%)		1 (2%)	
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Lymphoma Malignant		1 (2%)		1 (2%)	3 (6%)
Tongue	(0)	(0)	(1)	(0)	(0)
Squamous Cell Carcinoma			1 (100%)		
Tooth	(0)	(3)	(0)	(2)	(0)
Histiocytic Sarcoma		2 (67%)			
<b>CARDIOVASCULAR SYSTEM</b>					
Aorta	(1)	(0)	(0)	(0)	(1)
Lymphoma Malignant					1 (100%)
Blood Vessel	(50)	(48)	(49)	(49)	(49)
Heart	(50)	(50)	(50)	(50)	(50)
Leukemia Mononuclear	1 (2%)			1 (2%)	
Lymphoma Malignant		1 (2%)			1 (2%)
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Adenoma					1 (2%)
Histiocytic Sarcoma		1 (2%)			
Leukemia Mononuclear	1 (2%)			1 (2%)	

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B6C3F1/N MICE FEMALE	0 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg
Lymphoma Malignant	1 (2%)	1 (2%)	1 (2%)	2 (4%)	2 (4%)
Adrenal Medulla	(50)	(50)	(50)	(50)	(50)
Leukemia Mononuclear	1 (2%)				
Lymphoma Malignant					1 (2%)
Pheochromocytoma Benign					1 (2%)
Rhabdomyosarcoma, Metastatic, Skeletal Muscle	1 (2%)				
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)
Parathyroid Gland	(41)	(45)	(42)	(41)	(42)
Pituitary Gland	(49)	(49)	(50)	(50)	(50)
Pars Distalis, Adenoma	2 (4%)		5 (10%)	1 (2%)	3 (6%)
Thyroid Gland	(50)	(50)	(49)	(49)	(50)
Lymphoma Malignant	1 (2%)			1 (2%)	1 (2%)
Follicular Cell, Carcinoma	1 (2%)				
<b>GENERAL BODY SYSTEM</b>					
Peritoneum	(0)	(0)	(0)	(1)	(0)
Leiomyosarcoma, Metastatic, Uterus				1 (100%)	
Tissue NOS	(0)	(0)	(1)	(0)	(0)
<b>GENITAL SYSTEM</b>					
Clitoral Gland	(50)	(49)	(50)	(50)	(49)
Lymphoma Malignant					1 (2%)
Ovary	(49)	(50)	(50)	(50)	(50)
Cystadenoma	2 (4%)	3 (6%)	4 (8%)	4 (8%)	1 (2%)
Hemangiosarcoma		1 (2%)			
Histiocytic Sarcoma		2 (4%)	1 (2%)		
Luteoma					1 (2%)
Lymphoma Malignant	3 (6%)	2 (4%)	2 (4%)	3 (6%)	2 (4%)
Tubulostromal Adenoma					1 (2%)
Bilateral, Cystadenoma					1 (2%)
Uterus	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma				1 (2%)	

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B6C3F1/N MICE FEMALE	0 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg
Granular Cell Tumor Benign	1 (2%)				
Hemangioma	1 (2%)			1 (2%)	1 (2%)
Hemangiosarcoma		1 (2%)			
Histiocytic Sarcoma		2 (4%)			
Leiomyoma			1 (2%)		1 (2%)
Leiomyosarcoma				1 (2%)	
Lymphoma Malignant	1 (2%)	2 (4%)	2 (4%)	2 (4%)	2 (4%)
Polyp Stromal	1 (2%)				3 (6%)
Cervix, Sarcoma	1 (2%)				
Vagina	(50)	(50)	(49)	(49)	(50)
Lymphoma Malignant		2 (4%)			1 (2%)

**HEMATOPOIETIC SYSTEM**

Bone Marrow	(50)	(50)	(50)	(50)	(50)
Histiocytic Sarcoma		1 (2%)	1 (2%)	1 (2%)	
Lymphoma Malignant	1 (2%)	1 (2%)	2 (4%)	2 (4%)	3 (6%)
Lymph Node	(6)	(1)	(2)	(5)	(7)
Axillary, Lymphoma Malignant			1 (50%)		
Inguinal, Lymphoma Malignant			1 (50%)		
Lumbar, Histiocytic Sarcoma		1 (100%)			
Lumbar, Leiomyosarcoma, Metastatic, Uterus				1 (20%)	
Lumbar, Lymphoma Malignant	2 (33%)			2 (40%)	3 (43%)
Mediastinal, Lymphoma Malignant	2 (33%)			4 (80%)	2 (29%)
Mediastinal, Osteosarcoma, Metastatic, Uncertain Primary Site	1 (17%)				
Mediastinal, Rhabdomyosarcoma, Metastatic, Skeletal Muscle	1 (17%)				
Pancreatic, Lymphoma Malignant	2 (33%)			2 (40%)	
Renal, Histiocytic Sarcoma		1 (100%)			
Renal, Leiomyosarcoma, Metastatic, Uterus				1 (20%)	
Renal, Lymphoma Malignant	2 (33%)		1 (50%)	4 (80%)	5 (71%)
Renal, Rhabdomyosarcoma, Metastatic, Skeletal Muscle	1 (17%)				
Thoracic, Lymphoma Malignant					1 (14%)
Lymph Node, Mandibular	(50)	(49)	(50)	(50)	(50)

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B6C3F1/N MICE FEMALE	0 mg/kg	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg
Leukemia Mononuclear	1 (2%)				
Lymphoma Malignant	4 (8%)	2 (4%)	3 (6%)	2 (4%)	5 (10%)
Mast Cell Tumor Benign					1 (2%)
Lymph Node, Mesenteric	(50)	(49)	(50)	(49)	(50)
Hemangiosarcoma			1 (2%)		
Hemangiosarcoma, Metastatic, Liver			1 (2%)		
Histiocytic Sarcoma		1 (2%)	1 (2%)	1 (2%)	
Leiomyosarcoma, Metastatic, Uterus				1 (2%)	
Leukemia Mononuclear	1 (2%)				
Lymphoma Malignant	7 (14%)	4 (8%)	6 (12%)	3 (6%)	8 (16%)
Plasma Cell Tumor Benign			1 (2%)		
Spleen	(50)	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)				
Histiocytic Sarcoma			1 (2%)	1 (2%)	
Leukemia Mononuclear	1 (2%)			1 (2%)	
Lymphoma Malignant	9 (18%)	6 (12%)	9 (18%)	8 (16%)	12 (24%)
Thymus	(48)	(46)	(48)	(49)	(46)
Leukemia Mononuclear	1 (2%)				
Lymphoma Malignant	5 (10%)	3 (7%)	2 (4%)	2 (4%)	2 (4%)

**INTEGUMENTARY SYSTEM**

Mammary Gland	(50)	(50)	(50)	(47)	(50)
Lymphoma Malignant			1 (2%)	1 (2%)	1 (2%)
Skin	(50)	(50)	(50)	(50)	(50)
Basal Cell Adenoma					1 (2%)
Fibrosarcoma		1 (2%)	1 (2%)		1 (2%)
Keratoacanthoma				1 (2%)	
Lymphoma Malignant				1 (2%)	2 (4%)
Myxosarcoma			1 (2%)		
Sarcoma	1 (2%)		2 (4%)	1 (2%)	

**MUSCULOSKELETAL SYSTEM**

Bone	(50)	(50)	(50)	(50)	(50)
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Hemangiosarcoma, Metastatic, Spleen	1 (2%)				
Osteosarcoma	1 (2%)				
Rhabdomyosarcoma, Metastatic, Skeletal Muscle	1 (2%)				
Skeletal Muscle	(1)	(2)	(0)	(1)	(1)
Lymphoma Malignant		1 (50%)		1 (100%)	1 (100%)
Rhabdomyosarcoma	1 (100%)	1 (50%)			
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(50)
Leukemia Mononuclear				1 (2%)	
Lipoma		1 (2%)			
Lymphoma Malignant			1 (2%)	1 (2%)	1 (2%)
Meningioma Malignant	1 (2%)				
Peripheral Nerve	(2)	(0)	(0)	(1)	(1)
Sciatic, Lymphoma Malignant					1 (100%)
Spinal Cord	(2)	(0)	(0)	(1)	(1)
Astrocytoma Malignant	1 (50%)				
Lymphoma Malignant					1 (100%)
<b>RESPIRATORY SYSTEM</b>					
Lung	(50)	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	2 (4%)	4 (8%)	2 (4%)	2 (4%)	1 (2%)
Alveolar/Bronchiolar Carcinoma			1 (2%)	2 (4%)	1 (2%)
Hemangiosarcoma, Metastatic, Uterus		1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver					1 (2%)
Histiocytic Sarcoma	1 (2%)	2 (4%)		1 (2%)	
Leukemia Mononuclear	1 (2%)			1 (2%)	
Lymphoma Malignant	2 (4%)	2 (4%)	4 (8%)	4 (8%)	6 (12%)
Osteosarcoma, Metastatic, Uncertain Primary Site	1 (2%)				
Rhabdomyosarcoma, Metastatic, Skeletal Muscle	1 (2%)				

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Nose	(50)	(50)	(50)	(50)	(50)
Histiocytic Sarcoma		1 (2%)			
Lymphoma Malignant	1 (2%)	1 (2%)		1 (2%)	1 (2%)
Trachea	(50)	(50)	(50)	(50)	(50)
<b>SPECIAL SENSES SYSTEM</b>					
Ear	(0)	(0)	(0)	(0)	(1)
Eye	(50)	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	3 (6%)	2 (4%)	3 (6%)	1 (2%)
Histiocytic Sarcoma				1 (2%)	
Lymphoma Malignant	3 (6%)				2 (4%)
<b>URINARY SYSTEM</b>					
Kidney	(50)	(50)	(50)	(50)	(50)
Histiocytic Sarcoma		1 (2%)	1 (2%)	1 (2%)	
Leukemia Mononuclear	1 (2%)			1 (2%)	
Lymphoma Malignant	5 (10%)	1 (2%)	4 (8%)	6 (12%)	7 (14%)
Urinary Bladder	(50)	(50)	(50)	(50)	(49)
Leukemia Mononuclear	1 (2%)				
Lymphoma Malignant	3 (6%)	2 (4%)	1 (2%)	1 (2%)	4 (8%)
<b>SYSTEMIC LESIONS</b>					
Multiple Organ	*(50)	*(50)	*(50)	*(50)	*(50)
Amyloid			1 (2%)	1 (2%)	
Histiocytic Sarcoma	2 (4%)	2 (4%)	3 (6%)	1 (2%)	
Leukemia Mononuclear	1 (2%)			1 (2%)	
Lymphoma Malignant	10 (20%)	8 (16%)	9 (18%)	9 (18%)	13 (26%)

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\* Number of animals with any tissue examined microscopically



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### Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	30	27	26	26	28
Total Primary Neoplasms	41	38	39	35	38
Total Animals with Benign Neoplasms	15	16	14	15	19
Total Benign Neoplasms	17	20	19	17	22
Total Animals with Malignant Neoplasms	21	15	16	15	15
Total Malignant Neoplasms	24	18	20	18	16
Total Animals with Metastatic Neoplasms	3	1	1	1	1
Total Metastatic Neoplasms	10	1	1	5	1
Total Animals with Malignant Neoplasms Uncertain Primary Site	1				
Total Animals with Neoplasms Uncertain- Benign or Malignant					
Total Uncertain Neoplasms					

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

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b - Primary tumors: all tumors except metastatic tumors