

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
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

2-year Core Mice\_Final 1

<b>NTP Study Number:</b>	C00058B		
<b>Lock Date:</b>	10/02/2018		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25022 ACCK	25021 TSAC	25020 NATD
	25019 MSAC		
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include ALL		
<b>Study Gender:</b>	Female		
<b>TDMSE Version:</b>	3.0.2.3_002		
<b>PWG Approval Date:</b>	NONE		

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Lab: BAT

B6C3F1/N MICE FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	6	7	6	7	7	4
		2	3	2	3	3	3	3	3	3	9	3	3	3	3	3	3	3	3	4	3	9	2	3	3
		9	2	9	1	0	1	3	0	2	1	1	3	1	1	3	1	2	2	9	2	1	9	2	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 mg/kg	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	
		2	3	4	5	6	7	9	0	1	2	5	6	8	9	0	1	3	4	5	6	7	9	0	
																							females (cont...)		

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant														X									
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant														X									
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma																							
Hepatocellular Adenoma, Multiple						X				X											X		
Hepatocellular Carcinoma					X														X				
Histiocytic Sarcoma										X	X												
Leukemia Mononuclear	X																						
Lymphoma Malignant													X								X		
Osteosarcoma, Metastatic, Uncertain Primary Site																							
Mesentery									+					+									+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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B6C3F1/N MICE FEMALE	DAY ON TEST																								females (cont...)	
	0729	0732	0779	0771	0773	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		
0 mg/kg	ANIMAL ID																									
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
	23456790	125689	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	
Hemangiosarcoma, Metastatic, Spleen																										
Lymphoma Malignant																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>CARDIOVASCULAR SYSTEM</b>																										
Aorta																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear	X																									
<b>ENDOCRINE SYSTEM</b>																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear	X																									
Lymphoma Malignant																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear	X																									

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B6C3F1/N MICE FEMALE	DAY ON TEST																								females (cont...)
	0729	0732	0729	0731	0733	0735	0737	0739	0741	0743	0745	0747	0749	0751	0753	0755	0757	0759	0761	0763	0765	0767	0769	0771	
0 mg/kg	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
	2	3	4	5	6	7	9	0	1	2	5	6	8	9	0	1	3	4	5	6	7	9	0	1	

Rhabdomyosarcoma, Metastatic, Skeletal Muscle

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland  
 Pars Distalis, Adenoma

Thyroid Gland  
 Lymphoma Malignant  
 Follicular Cell, Carcinoma

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland

Ovary  
 Cystadenoma  
 Lymphoma Malignant

Uterus  
 Granular Cell Tumor Benign  
 Hemangioma  
 Lymphoma Malignant  
 Polyp Stromal

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	females (cont...)		
B6C3F1/N MICE FEMALE		7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	6	7	6	7	7	7	4			
0 mg/kg		2	3	2	3	3	3	3	3	9	3	3	3	3	3	3	3	4	3	9	2	3	3	9			
ANIMAL ID		9	2	9	1	0	1	3	0	2	1	3	1	1	3	1	2	2	9	2	1	9	2	1			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	females (cont...)		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3			
		2	3	4	5	6	7	9	0	1	2	5	6	8	9	0	1	3	4	5	6	7	9	0	1	2	females (cont...)
Cervix, Sarcoma																											
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<b>HEMATOPOIETIC SYSTEM</b>																											
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Lymphoma Malignant												X															
Lymph Node														+							+						
Lumbar, Lymphoma Malignant													X								X						
Mediastinal, Lymphoma Malignant																	X				X						
Mediastinal, Osteosarcoma, Metastatic, Uncertain Primary Site																											
Mediastinal, Rhabdomyosarcoma, Metastatic, Skeletal Muscle																											
Pancreatic, Lymphoma Malignant																	X										
Renal, Lymphoma Malignant																	X					X					
Renal, Rhabdomyosarcoma, Metastatic, Skeletal Muscle																											
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Leukemia Mononuclear		X																									
Lymphoma Malignant														X								X					
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Leukemia Mononuclear		X																									
Lymphoma Malignant														X			X				X						
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hemangiosarcoma																	X										

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B6C3F1/N MICE FEMALE 0 mg/kg	DAY ON TEST																								females (cont...)
	0729	0732	0779	0771	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	
ANIMAL ID	0002	0003	0004	0005	0006	0007	0009	0000	0001	0002	0005	0006	0008	0009	0000	0001	0003	0004	0005	0006	0007	0009	0000	0001	
Leukemia Mononuclear	X																								
Lymphoma Malignant			X			X						X									X	X			
Thymus	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	
Leukemia Mononuclear	X																								
Lymphoma Malignant												X									X				
<b>INTEGUMENTARY SYSTEM</b>																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Sarcoma										X															
<b>MUSCULOSKELETAL SYSTEM</b>																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemangiosarcoma, Metastatic, Spleen																								X	
Osteosarcoma																									
Rhabdomyosarcoma, Metastatic, Skeletal Muscle																									
Skeletal Muscle																									
Rhabdomyosarcoma																									
<b>NERVOUS SYSTEM</b>																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Meningioma Malignant																									
Peripheral Nerve																								+	

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Lab: BAT

B6C3F1/N MICE FEMALE	DAY ON TEST																									females (cont...)
	0729	0732	0772	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773		
<b>0 mg/kg</b>	0002	0002	0009	0001	0000	0001	0003	0000	0002	0001	0003	0001	0001	0003	0001	0002	0002	0009	0002	0001	0009	0002	0003	0003	0001	
ANIMAL ID	0002	0003	0004	0005	0006	0007	0009	0000	0001	0002	0005	0006	0008	0009	0000	0001	0003	0004	0005	0006	0007	0009	0000	0001	0002	
Leukemia Mononuclear	X																									
Lymphoma Malignant			X									X											X			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear	X																									
Lymphoma Malignant												X											X			
<b>SYSTEMIC LESIONS</b>																										
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma											X	X														
Leukemia Mononuclear	X																									
Lymphoma Malignant			X			X						X				X						X	X			

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B6C3F1/N MICE FEMALE	DAY ON TEST																								* TOTALS
	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	
0 mg/kg	0033	0033	0033	0033	0044	0044	0044	0044	0044	0044	0055	0055	0055	0055	0055	0066	0066	0066	0066	0066	0066	0066	0066	0066	50

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	M	M	+	+	46
Intestine Large, Cecum Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Intestine Large, Colon Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocellular Adenoma											X														1
Hepatocellular Adenoma, Multiple					X																	X			5
Hepatocellular Carcinoma																X									3
Histiocytic Sarcoma																									2
Leukemia Mononuclear																									1
Lymphoma Malignant								X								X					X				5
Osteosarcoma, Metastatic, Uncertain Primary Site														X											1
Mesentery		+								+															6

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B6C3F1/N MICE FEMALE	DAY ON TEST																								* TOTALS	
	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752		
0 mg/kg	ANIMAL ID																								* TOTALS	
	00333	00334	00338	00339	00341	00342	00343	00344	00345	00346	00348	00351	00353	00355	00356	00358	00360	00362	00363	00364	00365	00366	00367	00368		00370
Hemangiosarcoma, Metastatic, Spleen																									1	
Lymphoma Malignant																									1	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymphoma Malignant							X									X						X			5	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymphoma Malignant							X																		1	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>CARDIOVASCULAR SYSTEM</b>																										
Aorta					+																				1	
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																									1	
<b>ENDOCRINE SYSTEM</b>																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																									1	
Lymphoma Malignant																									1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																									1	

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 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	DAY ON TEST																								* TOTALS		
	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751				
0 mg/kg	ANIMAL ID																								* TOTALS		
	000333	000334	000338	000339	000341	000342	000343	000344	000345	000346	000348	000349	000351	000353	000355	000356	000358	000360	000362	000363	000364	000365	000367	000368			
Rhabdomyosarcoma, Metastatic, Skeletal Muscle																									X	1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	41	
Pituitary Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Pars Distalis, Adenoma												X														2	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymphoma Malignant																										1	
Follicular Cell, Carcinoma																										1	
<b>GENERAL BODY SYSTEM</b>																											
NONE																											
<b>GENITAL SYSTEM</b>																											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	49	
Cystadenoma																			X					X		2	
Lymphoma Malignant												X														3	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granular Cell Tumor Benign												X														1	
Hemangioma																										1	
Lymphoma Malignant																										1	
Polyp Stromal													X													1	

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																								* TOTALS	
	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752		
0 mg/kg	ANIMAL ID																								* TOTALS	
	000333	000334	000338	000339	000341	000342	000343	000344	000345	000346	000348	000349	000351	000353	000355	000356	000358	000360	000362	000363	000364	000365	000366	000367		000368
Cervix, Sarcoma																									X	1
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>HEMATOPOIETIC SYSTEM</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																										1
Lymph Node																										6
Lumbar, Lymphoma Malignant																										2
Mediastinal, Lymphoma Malignant																										2
Mediastinal, Osteosarcoma, Metastatic, Uncertain Primary Site																										1
Mediastinal, Rhabdomyosarcoma, Metastatic, Skeletal Muscle																										1
Pancreatic, Lymphoma Malignant																										2
Renal, Lymphoma Malignant																										2
Renal, Rhabdomyosarcoma, Metastatic, Skeletal Muscle																										1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																										1
Lymphoma Malignant																										4
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																										1
Lymphoma Malignant																										7
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemangiosarcoma																										1

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																								* TOTALS
	0729	0730	0739	0779	0771	0777	0775	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	
ANIMAL ID	000333	000444	000888	000999	000111	000222	000333	000444	000555	000666	000777	000888	000999	000111	000222	000333	000444	000555	000666	000777	000888	000999	000111	000222	
Leukemia Mononuclear																								1	
Lymphoma Malignant							X		X						X						X			9	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Leukemia Mononuclear																								1	
Lymphoma Malignant							X								X						X			5	
<b>INTEGUMENTARY SYSTEM</b>																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Sarcoma																								1	
<b>MUSCULOSKELETAL SYSTEM</b>																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemangiosarcoma, Metastatic, Spleen																								1	
Osteosarcoma									X															1	
Rhabdomyosarcoma, Metastatic, Skeletal Muscle							X																	1	
Skeletal Muscle																								1	
Rhabdomyosarcoma							X																	1	
<b>NERVOUS SYSTEM</b>																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Meningioma Malignant																						X		1	
Peripheral Nerve																								2	

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 mg/kg	7	7	7	7	7	7	5	7	7	7	7	4	7	4	7	5	7	7	7	7	7	7	7	7	
	2	3	2	2	3	3	7	3	3	3	2	3	9	3	6	3	1	2	3	3	3	0	3	3	
	9	0	9	9	1	0	9	3	3	2	2	1	0	2	0	6	9	3	3	3	0	6	1	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6	7	
	3	4	8	9	1	2	3	4	5	6	8	1	3	5	6	8	0	2	3	4	5	6	7	8	

Spinal Cord + 2  
 Astrocytoma Malignant 1

**RESPIRATORY SYSTEM**

Lung + 50  
 Alveolar/Bronchiolar Adenoma X 2  
 Histiocytic Sarcoma 1  
 Leukemia Mononuclear 1  
 Lymphoma Malignant 2  
 Osteosarcoma, Metastatic, Uncertain Primary Site X 1  
 Rhabdomyosarcoma, Metastatic, Skeletal Muscle X 1

Nose + 50  
 Lymphoma Malignant 1

Trachea + 50

**SPECIAL SENSES SYSTEM**

Eye + 50

Harderian Gland + 50  
 Adenoma X 2  
 Lymphoma Malignant X 3

**URINARY SYSTEM**

Kidney + 50

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																				* TOTALS		
	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07		07	07
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
Leukemia Mononuclear																							1
Lymphoma Malignant							X														X		5
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																							1
Lymphoma Malignant							X																3
<b>SYSTEMIC LESIONS</b>																							
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																							2
Leukemia Mononuclear																							1
Lymphoma Malignant							X			X					X						X		10

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																								females (cont...)
	0600	0702	0707	0622	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	
30 mg/kg	0071	0072	0073	0074	0075	0077	0079	0080	0081	0082	0083	0084	0086	0087	0088	0089	0090	0093	0095	0098	0099	0100	0103	0104	0107

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant				X																				
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangiosarcoma																								
Hepatocellular Adenoma		X															X	X						
Hepatocellular Carcinoma																								X
Histiocytic Sarcoma																								
Lymphoma Malignant	X			X																				
Mesentery																								
Histiocytic Sarcoma																								
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																								

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 + .. Tissue examined microscopically  
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Experiment Number: 00058 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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 30 mg/kg	DAY ON TEST		0 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 5 7 7 7 7 7 7 0 2 2 2 3 3 3 3 3 3 3 3 3 3 2 3 2 3 7 2 3 3 3 3 0 7 9 4 1 1 2 2 0 0 3 0 1 3 9 0 9 1 0 8 1 1 2 2 3 0																				ANIMAL ID	females (cont...)
	ANIMAL ID		0 1 1 1 1 1 1 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 9 9 9 9 0 0 0 0 0 1 2 3 4 5 7 9 0 1 2 3 4 6 7 8 0 3 5 8 0 3 4 6 7 8																					
Lymphoma Malignant			X																					
Salivary Glands Lymphoma Malignant			+ X																					
Stomach, Forestomach Lymphoma Malignant			+ X																					
Stomach, Glandular Lymphoma Malignant			+ X																					
Tooth Histiocytic Sarcoma																								
<b>CARDIOVASCULAR SYSTEM</b>																								
Blood Vessel			+ M + M +																					
Heart Lymphoma Malignant			+ X																					
<b>ENDOCRINE SYSTEM</b>																								
Adrenal Cortex Histiocytic Sarcoma Lymphoma Malignant			+ X																					
Adrenal Medulla			+ +																					
Islets, Pancreatic			+ +																					

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
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 30 mg/kg	DAY ON TEST																								ANIMAL ID	females (cont...)	
	0600	0727	0776	0776	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777				
Histiocytic Sarcoma																											
Lymphoma Malignant	X																										
Lymph Node																											
Lumbar, Histiocytic Sarcoma																											
Renal, Histiocytic Sarcoma																											
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant	X									X																	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																											
Lymphoma Malignant				X																							
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant	X			X						X																	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Lymphoma Malignant				X						X																	
<b>INTEGUMENTARY SYSTEM</b>																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosarcoma																											
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

<b>B6C3F1/N MICE FEMALE</b>  <b>30 mg/kg</b>	DAY ON TEST	0600	0722	0772	0663	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	<b>females (cont...)</b>
	ANIMAL ID	0007	0007	0007	0007	0007	0007	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0009	0009	0009	0009	0009	0009	
		12	3	4	5	7	9	0	1	2	3	4	6	7	8	0	3	5	8	0	3	4	6	7	

Skeletal Muscle +  
 Lymphoma Malignant X  
 Rhabdomyosarcoma

**NERVOUS SYSTEM**

Brain +  
 Lipoma X

**RESPIRATORY SYSTEM**

Lung +  
 Alveolar/Bronchiolar Adenoma X  
 Hemangiosarcoma, Metastatic, Uterus X  
 Histiocytic Sarcoma  
 Lymphoma Malignant X X  
 Nose +  
 Histiocytic Sarcoma  
 Lymphoma Malignant X  
 Trachea +

**SPECIAL SENSES SYSTEM**

Eye +  
 Harderian Gland  
 Adenoma X X

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

<b>B6C3F1/N MICE FEMALE</b>  <b>30 mg/kg</b>	DAY ON TEST	06	07	07	06	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07
		00	02	02	02	03	03	03	03	03	03	03	03	03	02	03	02	03	07	03	03	03	03	03	03	03	03	03
	ANIMAL ID	0071	0072	0073	0074	0075	0077	0079	0080	0081	0082	0083	0084	0086	0087	0088	0089	0090	0093	0095	0098	0099	0100	0101	0103	0104	0106	0107

females  
(cont...)

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																												
Lymphoma Malignant	X																											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X									X																		

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																													
Lymphoma Malignant	X			X						X																			

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Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 12/10/2020

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First Dose M/F: NA / 04/09/12

Lab: BAT

B6C3F1/N MICE FEMALE	DAY ON TEST																							* TOTALS
	0733	0734	0750	0772	0773	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	
30 mg/kg	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	91456780123456780123456789013347890

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant							X																	2
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemangiosarcoma																					X			1
Hepatocellular Adenoma					X	X			X				X								X	X		9
Hepatocellular Carcinoma											X									X				3
Histiocytic Sarcoma			X	X																				2
Lymphoma Malignant																				X				3
Mesentery																							+	2
Histiocytic Sarcoma																								1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma					X																			1

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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 30 mg/kg	DAY ON TEST																								* TOTALS
	0733	0732	0540	0721	0772	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	
ANIMAL ID	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	
Lymphoma Malignant																								X	2
Salivary Glands Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Stomach, Forestomach Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Stomach, Glandular Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Tooth Histiocytic Sarcoma				+	+																			+	3 2
<b>CARDIOVASCULAR SYSTEM</b>																									
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Heart Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
<b>ENDOCRINE SYSTEM</b>																									
Adrenal Cortex Histiocytic Sarcoma Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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Experiment Number: 00058 - 04  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Black Cohosh  
 CAS Number: 84776-26-1

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

B6C3F1/N MICE FEMALE 30 mg/kg	DAY ON TEST																				* TOTALS					
	0733	0732	0540	0721	0772	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773		0773				
ANIMAL ID	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011					
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	M	+	+	+	45
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>GENERAL BODY SYSTEM</b>																										
NONE																										
<b>GENITAL SYSTEM</b>																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cystadenoma														X	X											3
Hemangiosarcoma																										1
Histiocytic Sarcoma			X	X																						2
Lymphoma Malignant																										2
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemangiosarcoma																										1
Histiocytic Sarcoma			X	X																						2
Lymphoma Malignant																										2
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																										2
<b>HEMATOPOIETIC SYSTEM</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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 30 mg/kg	DAY ON TEST																								* TOTALS				
	0733	0732	0540	0721	0772	0773	0773	0733	0733	0733	0729	0729	0700	0700	0700	0700	0700	0700	0668	0733	0733	0665	0722	0733		0730	0772	0773	0733
ANIMAL ID	0010	0001	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
Histiocytic Sarcoma				X																									1
Lymphoma Malignant																													1
Lymph Node					+																								1
Lumbar, Histiocytic Sarcoma					X																								1
Renal, Histiocytic Sarcoma					X																								1
Lymph Node, Mandibular Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	49	
																													2
Lymph Node, Mesenteric Histiocytic Sarcoma	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymphoma Malignant			X																										1
					X																								4
Spleen Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
												X																	6
Thymus Lymphoma Malignant	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	46	
										X																			3
<b>INTEGUMENTARY SYSTEM</b>																													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skin Fibrosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																													1
<b>MUSCULOSKELETAL SYSTEM</b>																													
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	30 mg/kg	DAY ON TEST																				* TOTALS		
		0733	0734	0750	0771	0772	0773	0774	0775	0776	0777	0778	0779	0780	0781	0782	0783	0784	0785	0786	0787		0788	0789
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	4	
		9	1	4	5	6	7	8	0	1	2	3	4	5	6	7	8	9	0	1	3	4	0	

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma				X																				1
Lymphoma Malignant																								1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																								2

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma			X	X																				2
Lymphoma Malignant					X	X					X							X	X					8

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

		DAY ON TEST																				females (cont...)				
<b>B6C3F1/N MICE FEMALE</b>	<b>100 mg/kg</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		
		7	7	6	7	7	7	6	7	7	7	7	7	6	7	7	7	7	6	7	7		7	7	7	
		3	2	7	3	3	3	9	3	3	3	2	3	2	7	3	3	3	8	3	3	3	3	3		
		0	9	5	2	2	1	0	2	2	0	9	3	9	3	1	1	1	2	1	2	1	3	3	0	1
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		4	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7
		1	3	5	6	7	8	9	2	3	4	5	7	8	9	0	1	2	3	4	6	7	0	1	4	5

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangiosarcoma																										
Hepatocellular Adenoma																										
Hepatocellular Adenoma, Multiple																										
Histiocytic Sarcoma																										
Lymphoma Malignant																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant																										

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 00058 - 04  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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		DAY ON TEST																								females (cont...)
100 mg/kg		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		7	7	6	7	7	7	6	7	7	7	7	7	6	7	7	7	7	6	7	7	7	7	7	7	
		3	2	7	3	3	3	9	3	3	3	2	3	2	7	3	3	3	3	8	3	3	3	3	3	
Stomach, Forestomach		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stomach, Glandular		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Tongue		4	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	
Squamous Cell Carcinoma		1	3	5	6	7	8	9	2	3	4	5	7	8	9	0	1	2	3	4	6	7	0	1	4	5
<b>CARDIOVASCULAR SYSTEM</b>																										
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>ENDOCRINE SYSTEM</b>																										
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant																										
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland		M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma					X										X					X			X			
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>GENERAL BODY SYSTEM</b>																										

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Experiment Number: 00058 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

		DAY ON TEST																									
<b>B6C3F1/N MICE FEMALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		7	7	6	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	7	6	7	7	7	
<b>100 mg/kg</b>		3	2	7	3	3	3	9	3	3	3	2	3	2	7	3	3	3	3	3	3	8	3	3	3	3	
		0	9	5	2	2	1	0	2	2	0	9	3	9	3	1	1	1	2	1	2	1	2	1	3	3	
	<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		4	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7		
		1	3	5	6	7	8	9	2	3	4	5	7	8	9	0	1	2	3	4	6	7	0	1	4	5	<b>females (cont...)</b>

Tissue NOS

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cystadenoma									X			X												
Histiocytic Sarcoma																								
Lymphoma Malignant							X																	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leiomyoma																							X	
Lymphoma Malignant							X																	
Vagina	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																								
Lymphoma Malignant							X																	
Lymph Node					+		+																	
Axillary, Lymphoma Malignant							X																	
Inguinal, Lymphoma Malignant							X																	
Renal, Lymphoma Malignant							X																	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant							X																	

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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 100 mg/kg	DAY ON TEST																				females (cont...)
	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	
ANIMAL ID	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	00161
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangiosarcoma																				X	
Hemangiosarcoma, Metastatic, Liver																					
Histiocytic Sarcoma																					X
Lymphoma Malignant							X				X			X			X				
Plasma Cell Tumor Benign			X																		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																					
Lymphoma Malignant							X				X			X		X	X		X		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant							X				X										
<b>INTEGUMENTARY SYSTEM</b>																					
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant							X														
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosarcoma										X											
Myxosarcoma																					
Sarcoma																				X	
<b>MUSCULOSKELETAL SYSTEM</b>																					
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>NERVOUS SYSTEM</b>																					
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																								ANIMAL ID	females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
100 mg/kg	7	7	6	7	7	7	6	7	7	7	7	7	6	7	7	7	6	7	7	7	6	7	7	7	0	
	3	2	7	3	3	3	9	3	3	3	2	3	2	7	3	3	3	8	3	3	3	3	3	3	0	
	0	9	5	2	2	1	0	2	2	0	9	3	9	3	1	1	1	2	1	2	1	3	3	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	4	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	
	1	3	5	6	7	8	9	2	3	4	5	7	8	9	0	1	2	3	4	6	7	0	1	4	5	

Lymphoma Malignant

X

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma																								
Alveolar/Bronchiolar Carcinoma																								
Lymphoma Malignant							X					X										X		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																								
Lymphoma Malignant							X					X										X		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant							X																	

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically





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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																						* TOTALS	
	0733	0651	0730	0771	0771	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		0777
100 mg/kg	00176	00080	00081	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088
	00176	00080	00081	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088	00088

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemangiosarcoma																							X		1
Hepatocellular Adenoma																X								X	3
Hepatocellular Adenoma, Multiple																									1
Histiocytic Sarcoma																									2
Lymphoma Malignant																		X						X	5
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																								X	3
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																									1

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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 100 mg/kg	DAY ON TEST																				* TOTALS			
	0733	0651	0730	0731	0771	0772	0773	0774	0775	0776	0777	0778	0779	0780	0781	0782	0783	0784	0785	0786		0787	0788	0789
ANIMAL ID	001766	001767	001768	001769	001770	001771	001772	001773	001774	001775	001776	001777	001778	001779	001780	001781	001782	001783	001784	001785	001786	001787	001788	001789

Tissue NOS + 1

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cystadenoma														X	X										4
Histiocytic Sarcoma																									1
Lymphoma Malignant																							X		2
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leiomyoma																									1
Lymphoma Malignant																									2
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																									1
Lymphoma Malignant										X															2
Lymph Node																									2
Axillary, Lymphoma Malignant																									1
Inguinal, Lymphoma Malignant																									1
Renal, Lymphoma Malignant																									1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant										X															3

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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Experiment Number: 00058 - 04  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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 100 mg/kg	DAY ON TEST																				* TOTALS			
	0733	0651	0730	0731	0771	0772	0773	0774	0775	0776	0777	0778	0779	0780	0781	0782	0783	0784	0785	0786		0787	0788	0789
ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemangiosarcoma																								1
Hemangiosarcoma, Metastatic, Liver																					X			1
Histiocytic Sarcoma																								1
Lymphoma Malignant																	X						X	6
Plasma Cell Tumor Benign																								1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																					X			1
Lymphoma Malignant										X							X						X	9
Thymus	+	+	+	+	+	+	+	+	+	M	+	+	+	I	+	+	+	+	+	+	+	+	+	48
Lymphoma Malignant																								2
<b>INTEGUMENTARY SYSTEM</b>																								
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																								1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrosarcoma																								1
Myxosarcoma																						X		1
Sarcoma																						X		2
<b>MUSCULOSKELETAL SYSTEM</b>																								
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>NERVOUS SYSTEM</b>																								
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																								* TOTALS
	0733	0651	0730	0731	0733	0739	0731	0730	0733	0733	0732	0733	0733	0732	0739	0730	0739	0739	0732	0739	0730	0739	0732	0733	
100 mg/kg	00176	00080	00088	00088	00088	00088	00088	00088	00089	00090	00091	00093	00094	00096	00097	00099	00099	00099	00099	00099	00099	00099	00099	00099	1

Lymphoma Malignant

1

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma		X																							2
Alveolar/Bronchiolar Carcinoma	X																								1
Lymphoma Malignant																							X		4
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Harderian Gland Adenoma	+	+	+	+		X								X											50
																									2

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																									1
Lymphoma Malignant																							X		4
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																									1

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
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\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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	DAY ON TEST																								females (cont...)
	0731	0733	0732	0733	0733	0731	0731	0731	0733	0733	0739	0647	0645	0726	0663	0672	0673	0673	0653	0733	0733	0730	0662	0730	
300 mg/kg	0011	0012	0013	0014	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0037	0038	
ANIMAL ID	0011	0012	0013	0014	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0037	0038	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant																							
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant																						X	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma		X																					
Hepatocellular Carcinoma												X											
Histiocytic Sarcoma																							
Leukemia Mononuclear																							
Lymphoma Malignant																							
Stellate Cell Tumor, Benign																							
Mesentery																							
Histiocytic Sarcoma																							

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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Experiment Number: 00058 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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 300 mg/kg	DAY ON TEST																						females (cont...)	
	0731	0733	0732	0732	0732	0731	0731	0731	0731	0733	0739	0647	0464	0747	0667	0735	0737	0722	0733	0635	0733	0730		0662
ANIMAL ID	0011	0012	0013	0014	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036

Lymphoma Malignant

X

Pancreas

+ +

Leiomyosarcoma, Metastatic, Uterus

Lymphoma Malignant

X

Salivary Glands

+ +

Lymphoma Malignant

Stomach, Forestomach

+ +

Lymphoma Malignant

X

Stomach, Glandular

+ +

Lymphoma Malignant

X

Tooth

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Leukemia Mononuclear

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Leukemia Mononuclear

Lymphoma Malignant

X

X

Adrenal Medulla

+ +

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+ .. Tissue examined microscopically  
X .. Lesion present  
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M .. Missing tissue  
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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

| DAY ON TEST           | B6C3F1/N MICE FEMALE  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...) |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|                       | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>9      | 0<br>6<br>4<br>5      | 0<br>7<br>6<br>9      | 0<br>7<br>3<br>5      | 0<br>5<br>7<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>9      | 0<br>6<br>5<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>0      | 0<br>6<br>6<br>2      | 0<br>7<br>3<br>3      |                       |                      |
| ANIMAL ID             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |
| 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>4<br>7 | 0<br>0<br>2<br>7<br>8 |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland                         | + | + | M | + | + | + | + | + | M | + | + | + | + | + | M | + | M | M | + | + | + | + | + | + |
| Pituitary Gland<br>Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland<br>Lymphoma Malignant       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum<br>Leiomyosarcoma, Metastatic, Uterus |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

GENITAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary<br>Cystadenoma<br>Lymphoma Malignant                                     | + | + |   | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + |
| Uterus<br>Adenocarcinoma<br>Hemangioma<br>Leiomyosarcoma<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Vagina   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                             |           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |   |   |   |
|-----------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|
|                             |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      | 0 | 0 |   |
| <b>B6C3F1/N MICE FEMALE</b> |           | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7                    | 6 | 7 |   |
|                             |           | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 7 | 5 | 2 | 6 | 3 | 7 | 3 | 3 | 5 | 3 | 3                    | 6 | 3 |   |
| <b>300 mg/kg</b>            |           | 1           | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 9 | 7 | 5 | 9 | 5 | 3 | 2 | 2 | 9 | 3 | 3 | 0                    | 2 | 0 |   |
|                             |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 | 0 |   |
|                             | ANIMAL ID | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 | 0 |   |
|                             |           | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2                    | 2 | 2 |   |
|                             |           | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4                    | 4 | 4 |   |
|                             |           | 1           | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 2 | 4 | 7 | 8                    | 9 | 2 | 3 |

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Histiocytic Sarcoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |
| Lymph Node                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   | + |   |   | + |
| Lumbar, Leiomyosarcoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Lymphoma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Mediastinal, Lymphoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   | X |
| Pancreatic, Lymphoma Malignant             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Renal, Leiomyosarcoma, Metastatic, Uterus  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal, Lymphoma Malignant                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   | X |
| Lymph Node, Mandibular                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric                     | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leiomyosarcoma, Metastatic, Uterus         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Spleen                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   | X |
| Thymus                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 00058 - 04

Test Type: CHRONIC

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Species/Strain: MICE/B6C3F1/N

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 12/10/2020

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First Dose M/F: NA / 04/09/12

Lab: BAT

| B6C3F1/N MICE FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |
|----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
|                      | 0731        | 0733 | 0732 | 0732 | 0731 | 0731 | 0731 | 0733 | 0733 | 0739 | 0767 | 0745 | 0772 | 0766 | 0773 | 0757 | 0772 | 0739 | 0733 | 0765 | 0773 | 0766 |                      | 0773 |
| 300 mg/kg            | 0011        | 0012 | 0013 | 0014 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035                 |      |

**INTEGUMENTARY SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Skin               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Sarcoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | X |   |   |   |   |   |   |

**NERVOUS SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Peripheral Nerve     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spinal Cord          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 Lab: BAT

|                                |  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...)  |                       |                       |                       |  |  |  |  |  |  |
|--------------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--|--|--|--|
| B6C3F1/N MICE FEMALE           |  | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>5<br>7      | 0<br>6<br>2<br>5      | 0<br>4<br>6<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>6<br>5<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>0      | 0<br>6<br>6<br>2      |                       | 0<br>7<br>3<br>3      |                       |                       |  |  |  |  |  |  |
| 300 mg/kg                      |  | ANIMAL ID             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
|                                |  | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>1<br>3 | 0<br>0<br>2<br>1<br>4 | 0<br>0<br>2<br>1<br>7 | 0<br>0<br>2<br>1<br>8 | 0<br>0<br>2<br>2<br>9 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>8 | 0<br>0<br>2<br>3<br>0 | 0<br>0<br>2<br>3<br>2 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>3<br>8 | 0<br>0<br>2<br>3<br>9 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>4<br>2 |  |  |  |  |  |  |
| Alveolar/Bronchiolar Carcinoma |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Histiocytic Sarcoma            |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Leukemia Mononuclear           |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Lymphoma Malignant             |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |  |  |  |  |  |  |
| Nose                           |  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Lymphoma Malignant             |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Trachea                        |  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| <b>SPECIAL SENSES SYSTEM</b>   |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Eye                            |  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Harderian Gland                |  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Adenoma                        |  | +                     |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |  |  |  |  |  |  |
| Histiocytic Sarcoma            |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| <b>URINARY SYSTEM</b>          |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Kidney                         |  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Histiocytic Sarcoma            |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Leukemia Mononuclear           |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Lymphoma Malignant             |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |  |  |  |  |  |  |
| Urinary Bladder                |  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Lymphoma Malignant             |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| <b>SYSTEMIC LESIONS</b>        |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |
| Multiple Organ                 |  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                             |                  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1/N MICE FEMALE</b> |                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                             | <b>300 mg/kg</b> | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 |                      | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 |
|                             | ANIMAL ID        | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 7 | 5 | 2 | 6 | 3 | 7 | 3 | 2 | 3 | 2 | 3 | 5 | 3 | 3 | 3                    | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                             |                  | 1           | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 9 | 7 | 5 | 9 | 5 | 3 | 2 | 2 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3                    | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                             |                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                             |                  | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2                    | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|                             |                  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2                    | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|                             |                  | 1           | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 2 | 4 | 7 | 8 | 9 | 1 | 2 | 3 | 4                    | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 |   |

Amyloid  
 Histiocytic Sarcoma  
 Leukemia Mononuclear  
 Lymphoma Malignant

X

X

X

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                             |                  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |
|-----------------------------|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|                             |                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
| <b>B6C3F1/N MICE FEMALE</b> |                  | 7           | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 |          |
|                             |                  | 3           | 3 | 3 | 3 | 5 | 2 | 0 | 7 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |          |
|                             |                  | 2           | 2 | 0 | 0 | 2 | 9 | 3 | 1 | 9 | 0 | 2 | 0 | 3 | 9 | 2 | 0 | 7 | 0 | 1 | 9 | 1 | 4 | 1 | 3 |          |
|                             | <b>300 mg/kg</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|                             | 0                | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |          |
|                             | 2                | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |          |
|                             | 4                | 4           | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |   |          |
|                             | 4                | 5           | 6 | 7 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 0 | 1 | 3 | 4 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 9 |   |          |

**ALIMENTARY SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Intestine Large, Cecum      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 2  |
| Liver                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma      |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   | 4  |
| Hepatocellular Carcinoma    |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Histiocytic Sarcoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear        |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant          |   |   |   |   |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   |   | X |   |   |   | 7  |
| Stellate Cell Tumor, Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Mesentery                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | 2  |
| Histiocytic Sarcoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>300 mg/kg  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    | * TOTALS |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----------|
|                                    | 0732        | 0732 | 0730 | 0730 | 0652 | 0762 | 0666 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 |    |          |
| ANIMAL ID                          | 0044        | 0045 | 0006 | 0007 | 0009 | 0000 | 0001 | 0002 | 0004 | 0005 | 0006 | 0008 | 0000 | 0001 | 0003 | 0004 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0007 |    |          |
| Lymphoma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Pancreas                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | 49 |          |
| Leiomyosarcoma, Metastatic, Uterus |             |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Lymphoma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Salivary Glands                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |    |          |
| Lymphoma Malignant                 |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Stomach, Forestomach               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |    |          |
| Lymphoma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Stomach, Glandular                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |    |          |
| Lymphoma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Tooth                              |             |      |      |      |      |      |      |      |      |      |      |      | +    |      |      |      |      |      |      |      | +    |      | 2    |    |          |
| <b>CARDIOVASCULAR SYSTEM</b>       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |          |
| Blood Vessel                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M 49 |    |          |
| Heart                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |    |          |
| Leukemia Mononuclear               |             |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| <b>ENDOCRINE SYSTEM</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |          |
| Adrenal Cortex                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |    |          |
| Leukemia Mononuclear               |             |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |    |          |
| Lymphoma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2    |    |          |
| Adrenal Medulla                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |    |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>300 mg/kg         | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |  |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--|
|   | 0732        | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 |          | 0756 |  |
| ANIMAL ID                                 | 0044        | 0045 | 0046 | 0047 | 0049 | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069     |      |  |
| Islets, Pancreatic                        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |  |
| Parathyroid Gland                         | +           | M    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | M    | +    | +    | +    | +    | +    | +    | 41       |      |  |
| Pituitary Gland<br>Pars Distalis, Adenoma | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50<br>1  |      |  |
| Thyroid Gland<br>Lymphoma Malignant       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | I    | 49<br>1  |      |  |
| <b>GENERAL BODY SYSTEM</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |  |
| Peritoneum                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |      |  |
| Leiomyosarcoma, Metastatic, Uterus        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X        | 1    |  |
| <b>GENITAL SYSTEM</b>                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |  |
| Clitoral Gland                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |  |
| Ovary                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |  |
| Cystadenoma                               |             |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      | 4        |      |  |
| Lymphoma Malignant                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 3        |      |  |
| Uterus                                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |  |
| Adenocarcinoma                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 1        |      |  |
| Hemangioma                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |      |  |
| Leiomyosarcoma                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 1        |      |  |
| Lymphoma Malignant                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 2        |      |  |
| Vagina                                    | +           | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |      |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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 Black Cohosh  
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Date Report Requested: 12/10/2020  
 Time Report Requested: 11:32:38  
 First Dose M/F: NA / 04/09/12  
 Lab: BAT

|                             |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 |
|-----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| <b>B6C3F1/N MICE FEMALE</b> | DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7               | 7 |
|                             |             | 3 | 3 | 3 | 3 | 5 | 2 | 0 | 7 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 2               | 3 |
|                             |             | 2 | 2 | 0 | 0 | 2 | 9 | 3 | 1 | 9 | 0 | 2 | 0 | 3 | 9 | 2 | 0 | 7 | 0 | 1 | 9 | 1 | 4               | 3 |
| <b>300 mg/kg</b>            | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 |
|                             |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 |
|                             |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               | 2 |
|                             |             | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7               | 8 |
|                             | 4           | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 0 | 1 | 3 | 4 | 0 | 1 | 2 | 3 | 4 | 5 | 7               |   |
|                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |

### INTEGUMENTARY SYSTEM

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland      | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 47 |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Skin               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Keratoacanthoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |

### MUSCULOSKELETAL SYSTEM

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

### NERVOUS SYSTEM

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Peripheral Nerve     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Spinal Cord          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

### RESPIRATORY SYSTEM

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>300 mg/kg  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |      |  |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|--|
|                                    | 0732        | 0732 | 0730 | 0730 | 0652 | 0672 | 0666 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |          | 0777 |      |      |      |  |
| ANIMAL ID                          | 0044        | 0045 | 0046 | 0047 | 0049 | 0040 | 0041 | 0042 | 0044 | 0045 | 0046 | 0048 | 0040 | 0041 | 0043 | 0044 | 0040 | 0041 | 0042 | 0043 | 0044     | 0045 | 0047 | 0049 | 0040 |  |
| Alveolar/Bronchiolar Carcinoma     |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | X    |      |      |      |      |          |      |      |      | 2    |  |
| Histiocytic Sarcoma                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |          |      |      |      | 1    |  |
| Leukemia Mononuclear               |             |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      | 1    |  |
| Lymphoma Malignant                 |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | X        |      |      |      | 4    |  |
| Nose Lymphoma Malignant            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50   |  |
| Trachea                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50   |  |
| <b>SPECIAL SENSES SYSTEM</b>       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |  |
| Eye                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50   |  |
| Harderian Gland Adenoma            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | X    | +    | 50   |  |
| Histiocytic Sarcoma                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | X    | 1    |  |
| <b>URINARY SYSTEM</b>              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |  |
| Kidney Histiocytic Sarcoma         | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | X    | 1    |  |
| Leukemia Mononuclear               |             |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      | 1    |  |
| Lymphoma Malignant                 |             |      |      |      |      | X    |      |      |      |      |      | X    | X    |      |      |      |      |      |      |      |          | X    |      |      | 6    |  |
| Urinary Bladder Lymphoma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | X    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50   |  |
|                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | 1    |      |  |
| <b>SYSTEMIC LESIONS</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |  |
| Multiple Organ                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>1000 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|                                    | 0733        | 0738  | 0736  | 0766  | 0769  | 0773  | 0773  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  |       |                      |
| ANIMAL ID                          | 00281       | 00282 | 00283 | 00284 | 00285 | 00289 | 00291 | 00292 | 00293 | 00294 | 00295 | 00297 | 00298 | 00299 | 00300 | 00301 | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 |                      |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder<br>Lymphoma Malignant   | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Lymphoma Malignant                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma<br>Hepatocellular Carcinoma<br>Lymphoma Malignant | + | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Lymphoma Malignant   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>1000 mg/kg                               | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|--|
|  | 0733        | 0731  | 0382  | 0666  | 0695  | 0730  | 0771  | 0773  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0676  | 0772  | 0772  | 0661  | 0773  | 0773  | 0773  | 0773  |                      |  |
| ANIMAL ID  | 00281       | 00282 | 00283 | 00284 | 00285 | 00289 | 00291 | 00292 | 00293 | 00294 | 00295 | 00297 | 00298 | 00299 | 00300 | 00301 | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 |                      |  |
| Lymphoma Malignant   |             |       |       | X     |       |       |       |       |       |       |       | X     | X     | X     |       |       |       |       |       |       |       |       |       |       |                      |  |
| Stomach, Forestomach   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |  |
| Stomach, Glandular<br>Lymphoma Malignant                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |  |
| <b>CARDIOVASCULAR SYSTEM</b>                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Aorta<br>Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Blood Vessel   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |  |
| Heart<br>Lymphoma Malignant                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |  |
| <b>ENDOCRINE SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Adrenal Cortex<br>Adenoma<br>Lymphoma Malignant                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |                      |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Adrenal Medulla<br>Lymphoma Malignant<br>Pheochromocytoma Benign | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |  |
|  | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |  |
| Islets, Pancreatic   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |  |
| Parathyroid Gland  | +           | +     | +     | +     | +     | +     | +     | +     | M     | +     | M     | +     | +     | M     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     |                      |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 00058 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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<br>1000 mg/kg | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females<br>(cont...) |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|                                    | 7           | 7 | 3 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |           |                      |
|                                    | 3           | 3 | 8 | 6 | 9 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 0         |                      |
|                                    | 3           | 1 | 2 | 6 | 5 | 0 | 1 | 0 | 1 | 0 | 9 | 2 | 1 | 5 | 1 | 0 | 1 | 9 | 9 | 0 | 2 | 3 | 3 | 1 | 3 | 1 | 0         |                      |
|                                    | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                      |
|                                    | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0         |                      |
|                                    | 8           | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                      |
|                                    | 1           | 2 | 3 | 4 | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |           |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland<br>Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Thyroid Gland<br>Lymphoma Malignant       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Ovary<br>Cystadenoma                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Luteoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tubulostromal Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Cystadenoma               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Uterus<br>Hemangioma                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Leiomyoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Polyp Stromal                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Vagina<br>Lymphoma Malignant         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 00058 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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<br>1000 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |   |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|---|
|                                    | 0733        | 0733 | 0738 | 0736 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |           |                      |   |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00281                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00282                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00283                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00284                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00285                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00289                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00291                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00292                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00293                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00294                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00295                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00296                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00297                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00298                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00299                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00300                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00301                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00302                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00303                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00304                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00305                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00306                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00307                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00308                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00309                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00310                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00311                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00312                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00313                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00314                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00315                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00316                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00317                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00318                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00319                | 0 |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00320                | 0 |

HEMATOPOIETIC SYSTEM

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant              |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Lymph Node                      | + |   |   | + |   |   |   |   |   |   |   |   | + |   |   |   | + |   |   | + |   |
| Lumbar, Lymphoma Malignant      | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Lymphoma Malignant |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Renal, Lymphoma Malignant       | X |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |
| Thoracic, Lymphoma Malignant    |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant              |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Mast Cell Tumor Benign          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant              | X |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   | X | X |   |   |   |
| Spleen                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant              | X |   |   | X |   |   |   |   |   | X | X | X |   |   |   | X | X | X |   |   |   |
| Thymus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |

INTEGUMENTARY SYSTEM

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 00058 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

|                      |  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | females<br>(cont...) |
|----------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----------------------|
| B6C3F1/N MICE FEMALE |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |                      |
| 1000 mg/kg           |  | 7           | 7 | 3 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 |  |                      |
| ANIMAL ID            |  | 3           | 3 | 8 | 6 | 9 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | 9 | 2 | 2 | 1 | 3 | 3 | 3 | 3 |  |                      |
|                      |  | 3           | 1 | 2 | 6 | 5 | 0 | 1 | 0 | 0 | 9 | 2 | 1 | 5 | 1 | 0 | 1 | 9 | 9 | 0 | 2 | 3 | 3 | 1 |  |                      |
|                      |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |                      |
|                      |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |                      |
|                      |  | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |                      |
|                      |  | 8           | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |                      |
|                      |  | 1           | 2 | 3 | 4 | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |                      |
|                      |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |                      |

Fibrosarcoma  
Lymphoma Malignant

**MUSCULOSKELETAL SYSTEM**

Bone +

Skeletal Muscle  
Lymphoma Malignant

**NERVOUS SYSTEM**

Brain +  
Lymphoma Malignant X

Peripheral Nerve +  
Sciatic, Lymphoma Malignant X

Spinal Cord +  
Lymphoma Malignant X

**RESPIRATORY SYSTEM**

Lung +

Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma  
Hepatocellular Carcinoma, Metastatic, Liver  
Lymphoma Malignant

X  
Nose +  
Lymphoma Malignant X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>1000 mg/kg    | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|                                       | 0733        | 0731  | 0822  | 0666  | 0665  | 0770  | 0771  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  |       |                      |
| ANIMAL ID                             | 00281       | 00282 | 00283 | 00284 | 00285 | 00289 | 00281 | 00282 | 00283 | 00284 | 00285 | 00287 | 00288 | 00289 | 00290 | 00291 | 00292 | 00293 | 00294 | 00295 | 00296 | 00297 | 00298 | 00299 |                      |
| Trachea                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| <b>SPECIAL SENSES SYSTEM</b>          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Ear                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +     |                      |
| Eye                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Harderian Gland<br>Adenoma            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     |                      |
| Lymphoma Malignant                    |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| <b>URINARY SYSTEM</b>                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Kidney<br>Lymphoma Malignant          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Urinary Bladder<br>Lymphoma Malignant | +           | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| <b>SYSTEMIC LESIONS</b>               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Multiple Organ<br>Lymphoma Malignant  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
|                                       | X           |       | X     |       |       |       |       |       |       | X     | X     | X     |       |       |       | X     | X     | X     | X     |       |       |       |       |       |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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 | 1000 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |
|----------------------|------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
|                      |            | 0730        | 0733  | 0732  | 0733  | 0737  | 0772  | 0773  | 0771  | 0777  | 0775  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  |          | 0777  | 0777  |
| ANIMAL ID            |            | 00313       | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333    | 00333 |       |
|                      |            | 33133       | 33433 | 33533 | 33633 | 33733 | 33833 | 33433 | 33533 | 33633 | 33733 | 33833 | 33033 | 33133 | 33333 | 33433 | 33533 | 33733 | 33833 | 33033 | 33133 | 33233    | 33533 | 33633 |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma    |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 4  |
| Hepatocellular Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   | 4  |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant        |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>1000 mg/kg       | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|----------|
|  | 0730        | 0733 | 0732 | 0733 | 0770 | 0772 | 0773 | 0771 | 0777 | 0775 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777    |          |
| ANIMAL ID                                | 0001        | 0003 | 0003 | 0003 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000    |          |
| Lymphoma Malignant                       |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | 5       |          |
| Stomach, Forestomach                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50      |          |
| Stomach, Glandular<br>Lymphoma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | X    |      |      |      |      |      |      |      |      |      |      |      |      | 50<br>3 |          |
| <b>CARDIOVASCULAR SYSTEM</b>             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |          |
| Aorta                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1       |          |
| Lymphoma Malignant                       |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | 1       |          |
| Blood Vessel                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    |      | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49      |          |
| Heart                                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    |      | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50      |          |
| Lymphoma Malignant                       |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | 1       |          |
| <b>ENDOCRINE SYSTEM</b>                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |          |
| Adrenal Cortex                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50      |          |
| Adenoma                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1       |          |
| Lymphoma Malignant                       |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | 2       |          |
| Adrenal Medulla                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    |      | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50      |          |
| Lymphoma Malignant                       |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | 1       |          |
| Pheochromocytoma Benign                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1       |          |
| Islets, Pancreatic                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50      |          |
| Parathyroid Gland                        | +           | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | M       | 42       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>1000 mg/kg        | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0730        | 0733  | 0732  | 0733  | 0770  | 0772  | 0773  | 0771  | 0777  | 0773  | 0772  | 0773  | 0772  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  |          |
| ANIMAL ID                                 | 00313       | 00333 | 00332 | 00333 | 00370 | 00372 | 00373 | 00371 | 00377 | 00373 | 00372 | 00373 | 00372 | 00373 | 00373 | 00373 | 00373 | 00373 | 00373 | 00373 | 00373 | 00373 | 00373 | 00373 |          |
| Pituitary Gland<br>Pars Distalis, Adenoma | +           | +     | +     | +     | +     | X     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     | +     | +     | 503      |
| Thyroid Gland<br>Lymphoma Malignant       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 501      |
| <b>GENERAL BODY SYSTEM</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| NONE                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| <b>GENITAL SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Clitoral Gland<br>Lymphoma Malignant      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | 491      |
| Ovary<br>Cystadenoma                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 501      |
| Luteoma                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                        |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       | X     |       | 2        |
| Tubulostromal Adenoma                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       | 1        |
| Bilateral, Cystadenoma                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Uterus<br>Hemangioma                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 501      |
| Leiomyoma                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Lymphoma Malignant                        |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Polyp Stromal                             |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |
| Vagina<br>Lymphoma Malignant              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | X     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 501      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>1000 mg/kg | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                    | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>4<br>7<br>0      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>0      | 0<br>1<br>7<br>1      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>2      | 0<br>5<br>4<br>8      | 0<br>7<br>3<br>2      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>2      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>6<br>3<br>6      | 0<br>5<br>8<br>9      | 0<br>7<br>1<br>6      | 0<br>7<br>2<br>9      |                       |                       |
| ANIMAL ID                          | 0<br>0<br>3<br>1<br>3 | 0<br>0<br>3<br>1<br>4 | 0<br>0<br>3<br>1<br>5 | 0<br>0<br>3<br>1<br>6 | 0<br>0<br>3<br>1<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>4 | 0<br>0<br>3<br>2<br>5 | 0<br>0<br>3<br>2<br>6 | 0<br>0<br>3<br>2<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>9 |

**HEMATOPOIETIC SYSTEM**

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Lymph Node                      |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   | + |   |   |   |   | 7  |
| Lumbar, Lymphoma Malignant      |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Mediastinal, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Renal, Lymphoma Malignant       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 5  |
| Thoracic, Lymphoma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymph Node, Mandibular          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   | X |   | 5  |
| Mast Cell Tumor Benign          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymph Node, Mesenteric          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   | X |   | 8  |
| Spleen                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   | X |   |   | X |   | 12 |
| Thymus                          | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Lymphoma Malignant              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 2  |

**INTEGUMENTARY SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Skin               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basal Cell Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Black Cohosh  
 CAS Number: 84776-26-1

Date Report Requested: 12/10/2020  
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 Lab: BAT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|---|---|---|
| <b>B6C3F1/N MICE FEMALE</b><br><b>1000 mg/kg</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 1 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 6 | 5 | 7 | 7               | 6 | 5 | 7 | 7 | 6 | 5 | 7 | 7 |
|  |             | 3 | 3 | 3 | 3 | 7 | 2 | 3 | 7 | 3 | 3 | 4 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 6 | 8 | 1 | 2 | 6 | 8 | 1 | 2               | 6 | 8 | 1 | 2 | 6 | 8 | 1 | 2 |
|  |             | 0 | 3 | 2 | 3 | 0 | 9 | 0 | 1 | 0 | 2 | 8 | 2 | 9 | 2 | 9 | 0 | 3 | 3 | 3 | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9               | 6 | 9 | 6 | 9 | 6 | 9 | 6 | 9 |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |             | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4               | 4 | 4 | 4 | 4 | 4 | 5 | 5 |   |
|  |             | 3 | 4 | 5 | 6 | 7 | 8 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 5 | 6 | 9 | 0 | 0 | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |

|                    |   |   |
|--------------------|---|---|
| Fibrosarcoma       | X | 1 |
| Lymphoma Malignant | X | 2 |

**MUSCULOSKELETAL SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 1 |   |   |   |   |   |   |   |   |   |    |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1 |   |   |   |   |   |   |   |   |   |    |

**NERVOUS SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    |
| Peripheral Nerve            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    |
| Sciatic, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    |
| Spinal Cord                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    |
| Lymphoma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1 |   |   |   |   |   |   |   |   |    |
| Alveolar/Bronchiolar Carcinoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1 |   |   |   |   |   |   |   |   |    |
| Hepatocellular Carcinoma, Metastatic, Liver |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |    |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 6 |   |   |   |   |   |   |   |   |    |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 00058 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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<br>1000 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                    | 0730        | 0733  | 0732  | 0733  | 0770  | 0774  | 0777  | 0771  | 0777  | 0775  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  |          | 0777  |       |       |       |       |       |       |       |       |       |       |
| ANIMAL ID                          | 00313       | 00333 | 00332 | 00333 | 00370 | 00378 | 00373 | 00371 | 00370 | 00372 | 00378 | 00372 | 00379 | 00372 | 00379 | 00370 | 00373 | 00372 | 00371 | 00373 | 00376    | 00375 | 00377 | 00377 | 00366 | 00365 | 00378 | 00377 | 00368 | 00368 | 00369 | 00369 |
| Trachea                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |
| <b>SPECIAL SENSES SYSTEM</b>       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |
| Ear                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       | 1     |
| Eye                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |
| Harderian Gland                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |
| Adenoma                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       | 1     |
| Lymphoma Malignant                 |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       | 2     |
| <b>URINARY SYSTEM</b>              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |
| Kidney                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |
| Lymphoma Malignant                 |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |          |       |       |       | X     |       |       |       |       |       |       | 7     |
| Urinary Bladder                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |
| Lymphoma Malignant                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       | 4     |
| <b>SYSTEMIC LESIONS</b>            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |
| Multiple Organ                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |
| Lymphoma Malignant                 |             |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |          |       |       |       | X     |       |       |       |       |       |       | 13    |

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

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+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically