

**Experiment Number:** 00058 - 03

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Black Cohosh

**CAS Number:** 84776-26-1

**Date Report Requested:** 11/13/2020

**Time Report Requested:** 09:33:45

**First Dose M/F:** 07/03/12 / 07/02/12

**Lab:** BAT

Rats Final 2

**NTP Study Number:** C00058B  
**Lock Date:** 10/02/2018  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE



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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg male	DAY ON TEST																									ANIMAL ID	males (cont...)
	0 7 3 1	0 7 2 6	0 7 3 0	0 6 7 4	0 6 5 4	0 7 0 4	0 7 3 0	0 5 9 8	0 6 8 0	0 5 6 2	0 7 1 8	0 5 7 3	0 6 1 1	0 6 4 3	0 7 4 6	0 6 2 4	0 6 4 6	0 7 1 1	0 5 3 8	0 7 3 0	0 7 3 0	0 5 7 7	0 6 7 2	0 7 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 1		

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

Blood Vessel			+	+	+	+	+		+	+		+	+		+				+		+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																							

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma, Metastatic, Liver																							
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Benign	X			X		X			X									X			X	X	X
Bilateral, Pheochromocytoma Benign			X																				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																						X	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma			X			X								X							X		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bilateral, C-cell, Adenoma, Multiple																							

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg male	DAY ON TEST																									ANIMAL ID	males (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		
	7	7	7	6	6	7	7	5	6	5	7	5	7	6	6	7	6	6	7	5	7	7	5	6	7	0	
	3	2	3	7	5	0	3	9	8	6	1	7	1	4	4	3	2	4	1	3	3	3	7	7	3	1	
	1	6	0	4	4	4	0	8	0	2	8	3	1	3	6	0	4	6	1	8	0	0	7	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	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	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	2	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																										
Lipoma	X																									
Oncocytoma Benign	X																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																										
Leukemia Granulocytic																										
Mesothelioma Malignant		X									X															

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg male	DAY ON TEST																								* TOTALS		
	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754		0755	
ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
<b>CARDIOVASCULAR SYSTEM</b>																											
Blood Vessel	+	+	+	+	+		+			+	+	+	+		+	+	+	+		+	+		+		32		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Histiocytic Sarcoma																							X		1		
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Histiocytic Sarcoma, Metastatic, Liver																							X		1		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Pheochromocytoma Benign	X									X													X	X	12		
Bilateral, Pheochromocytoma Benign														X											2		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Adenoma			X													X							X		4		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Pars Distalis, Adenoma	X		X				X	X					X			X					X			X	12		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Bilateral, C-cell, Adenoma, Multiple												X												1			

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DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								* TOTALS
	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754	
ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	
C-cell, Adenoma	X			X				X			X			X							X				10
C-cell, Carcinoma																									1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																						X			1
Mesothelioma Malignant																									2
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																						X			1
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																						X			1
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																						X			1
Interstitial Cell, Adenoma																									1

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																						X			1
Leukemia Granulocytic													X												1

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	07	07	07	07	06	06	06	06	07	07	07	06	04	06	01	07	03	05	06	06	06	07	06	07	06	
ANIMAL ID	03	02	03	03	01	01	09	09	01	03	03	02	08	07	05	03	05	09	04	02	06	03	03	03	07	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Histiocytic Sarcoma																					X				1	
Lipoma																									1	
Oncocytoma Benign																									1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SYSTEMIC LESIONS</b>																										
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Histiocytic Sarcoma																						X			1	
Leukemia Granulocytic														X											1	
Mesothelioma Malignant																									2	

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HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg male	DAY ON TEST																									males (cont...)
	0488	0637	0666	0724	0770	0664	0650	0566	0617	0676	0666	0666	0777	0777	0777	0555	0777	0666	0777	0222	0777	0777	0555	0444		
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	

Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular Leukemia Mononuclear	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tongue																									
Tooth		+												+		+									

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+			+	+	+	+	+		+		+	+	+	+	+		+	+	+			+
Heart Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+

ENDOCRINE SYSTEM

Adrenal Cortex Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla Pheochromocytoma Benign Bilateral, Pheochromocytoma Benign	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic Adenoma, Mixed Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X

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HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg male	DAY ON TEST																									ANIMAL ID	males (cont...)
	0488	0637	0666	0772	0773	0664	0668	0559	0666	0771	0663	0666	0661	0773	0777	0777	0553	0775	0661	0337	0773	0773	0556	0447	0550		
	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	
	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	

Parathyroid Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		X		X										X		X									
Thyroid Gland C-cell, Adenoma C-cell, Adenoma, Multiple	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
								X	X					X					X				X		

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland Papilloma, Squamous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
						X																			
Prostate Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
								X																	
Seminal Vesicle Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
								X																	
Testis Interstitial Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	0488	0637	0662	0774	0773	0664	0668	0559	0667	0770	0666	0669	0771	0666	0661	0773	0777	0553	0776	0667	0772	0777	0553	0487	0554		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75		

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma																									
Fibrosarcoma																									
Hemangioma			X																						
Keratoacanthoma						X												X					X		
Keratoacanthoma, Multiple																									
Leukemia Mononuclear										X															
Lipoma																									
Liposarcoma																									
Sarcoma																									
Sebaceous Gland, Adenoma																						X			

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																									
Nerve Trigeminal																									
Leukemia Mononuclear											+														
Peripheral Nerve																									
Spinal Cord																									

RESPIRATORY SYSTEM

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Lab: BAT

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								ANIMAL ID	males (cont...)	
	0488	0637	0666	0724	0733	0644	0660	0566	0677	0699	0613	0666	0711	0777	0535	0733	0618	0777	0274	0733	0733	0560	0475				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	000000000000000000000000	males (cont...)	
Lung Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Nose Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<b>SPECIAL SENSES SYSTEM</b>																											
Eye Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Zymbal's Gland Carcinoma																											
<b>URINARY SYSTEM</b>																											
Kidney Leukemia Mononuclear Oncocytoma Benign	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Urinary Bladder Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>75 mg/kg male</b>	DAY ON TEST	04	06	06	07	07	06	06	05	06	07	06	06	06	07	07	07	05	07	06	07	02	07	07	05	04
	ANIMAL ID	08	03	06	02	03	04	08	09	01	03	03	06	01	01	01	03	05	03	01	03	07	03	03	06	07
		88	77	66	44	00	44	00	66	77	00	00	09	11	13	11	00	33	00	08	11	44	11	11	00	55

males  
(cont...)

Leukemia Mononuclear

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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Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

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First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg male	DAY ON TEST																									* TOTALS	
	0637	0433	0575	0575	0680	0770	0776	0667	0664	0771	0771	0663	0772	0779	0778	0660	0666	0771	0773	0559	0773	0447	0664	0557	0661		0668
ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Glandular Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1	
Tongue			+																							1	
Tooth																										3	
<b>CARDIOVASCULAR SYSTEM</b>																											
Blood Vessel		+	+	+	+		+	+	+	+	+		+	+	+	+		+							+	+	33
Heart Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2
Adrenal Medulla Pheochromocytoma Benign Bilateral, Pheochromocytoma Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 8 2
Islets, Pancreatic Adenoma, Mixed Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg male	DAY ON TEST																								* TOTALS
	0637	0433	0573	0575	0680	0770	0776	0667	0664	0771	0773	0665	0772	0777	0770	0663	0776	0773	0559	0773	0447	0664	0557	0661	
ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100

Parathyroid Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	47
																		X							1
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	X	X	+	+	+	+	+	+	+	50
																									7
Thyroid Gland C-cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Adenoma, Multiple	X																								5
																									1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland Papilloma, Squamous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1
Prostate Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1
Seminal Vesicle Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1
Testis Interstitial Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																							X		1

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

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

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg male	DAY ON TEST	0637	0433	0577	0577	0688	0730	0768	0665	0733	0765	0770	0773	0776	0776	0673	0773	0575	0773	0474	0665	0555	0661	* TOTALS	
	ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097		00098
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear				X																				2
Lymph Node	+			+		+																		4
Bronchial, Carcinoma, Metastatic, Thyroid Gland							X																	1
Lumbar, Leukemia Mononuclear																								1
Mediastinal, Leukemia Mononuclear																								1
Pancreatic, Leukemia Mononuclear							X																	1
Renal, Leukemia Mononuclear																								1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear				X																				2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear				X																				2
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear				X																				2
Thymus	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia Mononuclear				X																				2

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	48
Adenocarcinoma																				X				1
Fibroadenoma														X										1

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+ .. Tissue examined microscopically  
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I .. Insufficient tissue

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



Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg male	DAY ON TEST																								* TOTALS
	0637	0433	0575	0575	0680	0770	0776	0667	0667	0773	0773	0667	0773	0773	0773	0667	0773	0773	0559	0773	0773	0447	0665	0557	
ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroma																									1
Fibrosarcoma																									1
Hemangioma																									1
Keratoacanthoma																									3
Keratoacanthoma, Multiple																									1
Leukemia Mononuclear																									1
Lipoma																									1
Liposarcoma																									1
Sarcoma																									1
Sebaceous Gland, Adenoma																									1

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																									1
Nerve Trigeminal																									1
Leukemia Mononuclear																									1
Peripheral Nerve																									1
Spinal Cord																									1

RESPIRATORY SYSTEM

\* .. 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg male	DAY ON TEST																									* TOTALS	
	0637	0433	0575	0575	0680	0730	0770	0667	0667	0741	0771	0663	0773	0777	0777	0666	0773	0775	0553	0773	0444	0665	0555	0661	0668		
ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100		
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear				X																						2	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																										1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																										1	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Zymbal's Gland																										1	
Carcinoma																										1	
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear				X																						2	
Oncocytoma Benign						X																				1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																										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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>75 mg/kg male</b>	DAY ON TEST	0637	0433	0575	0575	0680	0730	0776	0668	0674	0731	0773	0776	0777	0670	0773	0773	0575	0773	0447	0665	0557	0661	<b>* TOTALS</b>
	ANIMAL ID	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
		0706	0707	0708	0709	0800	0801	0802	0803	0804	0805	0806	0807	0808	0809	0900	0901	0902	0903	0904	0905	0906	0907	
Leukemia Mononuclear				X																				2

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																									ANIMAL ID	males (cont...)	
	0731	0664	0763	0773	0773	0773	0773	0773	0773	0668	0445	0664	0443	0770	0664	0776	0665	0442	0554	0668	0660	0664	0666	0771	0773			0773
250 mg/kg male	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+				+	+	+	+	+	+				+	+			+	+	+	+	+	+		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Neuroendocrine Tumor, Benign																											

ENDOCRINE SYSTEM

Adrenal Cortex Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla Pheochromocytoma Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bilateral, Pheochromocytoma Benign	X	X				X	X																				
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	M	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Meningioma Malignant, Metastatic, Brain Pars Distalis, Adenoma						X	X				X	X	X				X				X			X			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Experiment Number: 00058 - 03

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Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 250 mg/kg male	DAY ON TEST																									ANIMAL ID	males (cont...)
	0731	0664	0770	0773	0775	0777	0778	0779	0668	0446	0664	0447	0667	0665	0554	0445	0556	0666	0666	0777	0777	0777	0666	0669			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00110001		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00110001		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00110001		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00110001		

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Thymus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin Fibroma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemangiosarcoma				X																				
Keratoacanthoma																								
Schwannoma Malignant																								
Squamous Cell Papilloma																								

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle Sarcoma																								

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 250 mg/kg male	DAY ON TEST																									* TOTALS
	0693	0725	0731	0521	0494	0445	0773	0773	0667	0768	0673	0553	0773	0773	0773	0669	0662	0554	0772	0668	0559	0667	0773	0773		
ANIMAL ID	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Thymus	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46		
<b>INTEGUMENTARY SYSTEM</b>																										
Mammary Gland Fibroadenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49 2	
Skin Fibroma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 4	
Hemangiosarcoma																									1	
Keratoacanthoma																									1	
Schwannoma Malignant																									1	
Squamous Cell Papilloma																									1	
<b>MUSCULOSKELETAL SYSTEM</b>																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skeletal Muscle Sarcoma																									1 1	
<b>NERVOUS SYSTEM</b>																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

\* .. 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								* TOTALS		
	250 mg/kg male																										
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	
0693	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	0751	
0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	
1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	
2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	2226	
6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	6789	
Granular Cell Tumor Benign																										1	
Meningioma Malignant																										1	
Meninges, Carcinoma, Metastatic, Kidney																										1	
Peripheral Nerve																										1	
Spinal Cord																										1	
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Meningioma Malignant, Metastatic, Brain																										1	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Zymbal's Gland																										1	
Carcinoma																										1	
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Amphophilic/Vacuolar Adenoma, Multiple																										2	
Amphophilic/Vacuolar Carcinoma																										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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 750 mg/kg male	DAY ON TEST	07	06	07	05	06	07	06	05	06	05	06	07	06	05	06	07	07	04	06	06	07	06	07	males (cont...)		
		30	13	03	00	04	02	03	08	01	06	03	09	03	09	06	08	00	01	03	04	02	05	03		06	03
	ANIMAL ID	00151	00115	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011	00011		00011	00011

Stomach, Glandular

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex  
Carcinoma

+ +

Adrenal Medulla  
Pheochromocytoma Benign  
Pheochromocytoma Malignant  
Bilateral, Pheochromocytoma Benign

+  
X  
X X

Islets, Pancreatic  
Adenoma  
Carcinoma

+  
X  
X X

Parathyroid Gland

+ M M + + + + + + + + + + + + + + + + + + + M +

Pituitary Gland  
Leukemia Granulocytic  
Pars Distalis, Adenoma

+  
X  
X X

Thyroid Gland  
C-cell, Adenoma

+  
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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>750 mg/kg male    | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | males<br>(cont...) |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
|   | 0730        | 0631   | 0730   | 0502   | 0643   | 0725   | 0662   | 0558   | 0661   | 0564   | 0657   | 0738   | 0613   | 0509   | 0606   | 0722   | 0678   | 0773   | 0442   | 0662   | 0653   | 0763   | 0663   | 0773   |                    |
| ANIMAL ID   | 001151      | 001152 | 001153 | 001154 | 001155 | 001156 | 001157 | 001158 | 001159 | 001160 | 001161 | 001162 | 001163 | 001164 | 001165 | 001166 | 001167 | 001168 | 001169 | 001170 | 001171 | 001172 | 001173 | 001174 |                    |
| Renal, Leukemia Granulocytic                            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                    |
| Lymph Node, Mandibular<br>Leukemia Granulocytic         | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |                    |
| Lymph Node, Mesenteric<br>Carcinoma, Metastatic, Kidney | +           | +      | +      | +      | +      | +      | +      | +      | +      | X      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |                    |
| Spleen<br>Hemangiosarcoma<br>Leukemia Granulocytic      | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |                    |
| Thymus<br>Leukemia Granulocytic                         | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |                    |

INTEGUMENTARY SYSTEM

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Fibroadenoma | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin<br>Fibroma               | + | + | X | + | + | + | X | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

\* .. 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 - 03  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/HSD

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

Date Report Requested: 11/13/2020  
 Time Report Requested: 09:33:45  
 First Dose M/F: 07/03/12 / 07/02/12  
 Lab: BAT

| 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 | males<br>(cont...) |   |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>750 mg/kg male</b> | ANIMAL ID | 7 | 6 | 7 | 5 | 6 | 7 | 6 | 5 | 6 | 5 | 6 | 5 | 7 | 6 | 5 | 6 | 6 | 7 | 7 | 4 | 6 | 6 | 7 | 6 |                    | 7 |
|   |           | 3 | 1 | 3 | 0 | 4 | 2 | 3 | 8 | 1 | 6 | 3 | 9 | 3 | 9 | 6 | 8 | 0 | 1 | 3 | 4 | 2 | 5 | 3 | 6 |                    | 3 |
|   |           | 0 | 3 | 0 | 2 | 3 | 5 | 2 | 6 | 1 | 4 | 3 | 8 | 1 | 3 | 9 | 2 | 7 | 8 | 0 | 2 | 0 | 0 | 0 | 3 | 0                  |   |

Leukemia Granulocytic

### NERVOUS SYSTEM

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Granular Cell Tumor Benign          |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Meninges, Meningioma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |  |
| Pineal Gland, Leukemia Granulocytic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Peripheral Nerve                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Spinal Cord                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Granulocytic               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

### RESPIRATORY SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Adrenal Cortex |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Thyroid Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Granulocytic                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### SPECIAL SENSES SYSTEM

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. 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 - 03

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 11/13/2020

Test Type: CHRONIC

Black Cohosh

Time Report Requested: 09:33:45

Route: GAVAGE

CAS Number: 84776-26-1

First Dose M/F: 07/03/12 / 07/02/12

Species/Strain: RATS/HSD

Lab: BAT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b><br><br><b>750 mg/kg male</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 |   |
|   |             | 7 | 6 | 7 | 5 | 6 | 7 | 6 | 5 | 6 | 5 | 6 | 5 | 7 | 6 | 5 | 6 | 6 | 7 | 7 | 4 | 6 | 6 | 7 | 6 | 7 |
|   |             | 3 | 1 | 3 | 0 | 4 | 2 | 3 | 8 | 1 | 6 | 3 | 9 | 3 | 9 | 6 | 8 | 0 | 1 | 3 | 4 | 2 | 5 | 3 | 6 | 3 |
|   | 0           | 3 | 0 | 2 | 3 | 5 | 2 | 6 | 1 | 4 | 3 | 8 | 1 | 3 | 9 | 2 | 7 | 8 | 0 | 2 | 0 | 0 | 0 | 3 | 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 | 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 |   |
|   |             | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |
|   |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |

males  
(cont...)

Leukemia Granulocytic

Harderian Gland

Leukemia Granulocytic

**URINARY SYSTEM**

Kidney

Amphophilic/Vacuolar Adenoma, Multiple

Amphophilic/Vacuolar Carcinoma, Multiple

Leukemia Granulocytic

Urinary Bladder

Leukemia Granulocytic

**SYSTEMIC LESIONS**

Multiple Organ

Leukemia Granulocytic

\* .. 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>750 mg/kg male | DAY ON TEST | 07 | 07 | 04 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 04 | 07 | 06 | 06 | 05 | 07 | 04 | 07 | 07 | 05 | 06 | 06 | 07 | 06 | 07 | * TOTALS |
|  | ANIMAL ID   | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |          |
|  |             | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |          |

ALIMENTARY SYSTEM

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum        | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum     | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Kidney |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma        |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Leukemia Granulocytic         |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Granulocytic         |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Acinus, Adenoma               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Acinus, Adenoma, Multiple     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 2  |
| Salivary Glands               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Granulocytic         |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Stomach, Forestomach          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>750 mg/kg male | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|  | 0711        | 0713 | 0714 | 0716 | 0717 | 0717 | 0717 | 0717 | 0716 | 0717 | 0714 | 0717 | 0716 | 0716 | 0715 | 0717 | 0714 | 0717 | 0717 | 0715 | 0716 | 0716 | 0717 | 0716 |          |
| ANIMAL ID  | 0011        | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011     |
| Stomach, Glandular                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| <b>CARDIOVASCULAR SYSTEM</b>                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Blood Vessel   |             | +    | +    | +    | +    |      | +    |      | +    | +    | +    | +    | +    | +    | +    |      |      | +    |      | +    | +    |      | +    | 33   |          |
| Heart  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| <b>ENDOCRINE SYSTEM</b>                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Adrenal Cortex                                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |
| Carcinoma  |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | 1    |          |
| Adrenal Medulla                                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |
| Pheochromocytoma Benign                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | X    |      |      | X    |      | 7    |          |
| Pheochromocytoma Malignant                           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |          |
| Bilateral, Pheochromocytoma Benign                   | X           |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | X    |      |      |      |      |      |      |      | 3    |          |
| Islets, Pancreatic                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |
| Adenoma  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |          |
| Carcinoma  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |          |
| Parathyroid Gland                                    | M           | +    | M    | +    | +    | M    | M    | +    | M    | M    | +    | +    | +    | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | 39   |          |
| Pituitary Gland                                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |
| Leukemia Granulocytic                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      | 1    |          |
| Pars Distalis, Adenoma                               |             |      | X    |      | X    |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | 6    |          |
| Thyroid Gland  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |
| C-cell, Adenoma                                      |             |      |      |      |      |      | X    |      |      |      |      |      |      | X    |      | X    |      |      |      |      |      | X    |      | 7    |          |

\* .. 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 - 03

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 11/13/2020

Test Type: CHRONIC

Black Cohosh

Time Report Requested: 09:33:45

Route: GAVAGE

CAS Number: 84776-26-1

First Dose M/F: 07/03/12 / 07/02/12

Species/Strain: RATS/HSD

Lab: BAT

| 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 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> |           | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 6 | 6 | 5 | 7 | 4 | 7 | 7 | 5 | 6 | 6               | 7 |
|  |           | 1 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 5 | 3 | 4 | 3 | 4 | 6 | 2 | 0 | 4 | 3 | 3 | 5 | 5 | 1               | 3 |
| <b>750 mg/kg male</b>                  |           | 1 | 1 | 4 | 2 | 3 | 1 | 1 | 1 | 0 | 0 | 9 | 0 | 3 | 9 | 0 | 5 | 1 | 1 | 1 | 4 | 3 | 4               | 1 |
|  | 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 |
|  |           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1               | 2 |
|  |           | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9               | 0 |
|  |           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7               | 8 |
|  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |

C-cell, Carcinoma

X

1

Follicular Cell, Adenoma

X

1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Granulocytic      |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 1  |
| Seminal Vesicle            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Testis                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Interstitial Cell, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |

**HEMATOPOIETIC SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Granulocytic              |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 1  |
| Lymph Node                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |
| Inguinal, Leukemia Granulocytic    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lumbar, Leukemia Granulocytic      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mediastinal, Leukemia Granulocytic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>750 mg/kg male    | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |             | * TOTALS          |         |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------------|---------|
|   | 0711        | 0713  | 0714  | 0716  | 0717  | 0717  | 0717  | 0717  | 0716  | 0717  | 0714  | 0716  | 0716  | 0715  | 0717  | 0714  | 0717  | 0717  | 0715  | 0716  | 0716  | 0717  | 0716  | 0717        |                   |         |
| ANIMAL ID   | 00116       | 00117 | 00118 | 00119 | 00120 | 00121 | 00122 | 00123 | 00124 | 00125 | 00126 | 00127 | 00128 | 00129 | 00130 | 00131 | 00132 | 00133 | 00134 | 00135 | 00136 | 00137 | 00138 | 00139       |                   |         |
| Renal, Leukemia Granulocytic                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |             | X                 | 1       |
| Lymph Node, Mandibular<br>Leukemia Granulocytic         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +           | X                 | 50<br>1 |
| Lymph Node, Mesenteric<br>Carcinoma, Metastatic, Kidney | +           | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     |             | 48<br>1           |         |
| Spleen<br>Hemangiosarcoma<br>Leukemia Granulocytic      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X<br>X      | 50<br>1<br>1      |         |
| Thymus<br>Leukemia Granulocytic                         | +           | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X           | 49<br>1           |         |
| <b>INTEGUMENTARY SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |             |                   |         |
| Mammary Gland<br>Fibroadenoma                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |             | 48<br>1           |         |
| Skin<br>Fibroma<br>Fibrosarcoma<br>Keratoacanthoma      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X<br>X<br>X | 50<br>5<br>1<br>3 |         |
| <b>MUSCULOSKELETAL SYSTEM</b>                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |             |                   |         |
| Bone  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |             | 50                |         |
| Skeletal Muscle   |             |       |       |       |       |       |       |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |             | 3                 |         |

\* .. 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 - 03

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

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Lab: BAT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg female | DAY ON TEST | 0730 | 0730 | 0578 | 0739 | 0460 | 0579 | 0738 | 0738 | 0739 | 0739 | 0739 | 0739 | 0739 | 0654 | 0753 | 0573 | 0736 | 0771 | 0772 | 0677 | 0767 | 0729 | females<br>(cont...) |      |
|  | ANIMAL ID   | 0020 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 |                      | 0043 |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Adenocarcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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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 | 0 | 0 | 0 | 0 | 0 |
|--|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | DAY ON TEST           | 7 | 7 | 5 | 7 | 4 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 |   |
|  | <b>0 mg/kg female</b> | 3 | 3 | 7 | 3 | 9 | 0 | 9 | 3 | 0 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 3 | 3 | 3 | 1 | 2 | 2 | 7 | 7 | 2 | 2 |   |
|  | 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 |   |
|  |                       | 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 |   |
|  |                       | 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 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |   |   |
| <b>females (cont...)</b>                     |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**CARDIOVASCULAR SYSTEM**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart<br>Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Adenoma                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla<br>Pheochromocytoma Benign  | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | X | + | + | X | + | + | + |
| Islets, Pancreatic<br>Adenoma               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland                           | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland<br>Pars Distalis, Adenoma   | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | X | + | + | + | + | + | X | X | + | + | + | + | + |
| Thyroid Gland<br>Bilateral, C-cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma                             | X |   |   |   |   |   |   |   |   |   |   |   | X | X | X |   |   |   |   |   |   |   |   |   | X |   |   |   |

**GENERAL BODY SYSTEM**

NONE

\* .. 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg female | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | 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 | 0 | 0 | 0 |           |                      |
|  | 7           | 7 | 5 | 7 | 4 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 0         |                      |
|  | 3           | 3 | 7 | 3 | 9 | 0 | 9 | 3 | 0 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 3 | 3 | 3 | 1 | 2 | 2 | 7 | 2 | 0         |                      |
|  | 0           | 0 | 8 | 0 | 9 | 6 | 7 | 0 | 8 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 0 | 6 | 0 | 8 | 9 | 9 | 7 | 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         |                      |
|  | 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         |                      |
|  | 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           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0         |                      |

**GENITAL SYSTEM**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Squamous Cell Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Papilloma, Squamous, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal, Multiple       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Polyp Stromal      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Adenocarcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vagina                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                 | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**INTEGUMENTARY SYSTEM**

\* .. 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







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Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

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First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg female | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0730        | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  |          |
| ANIMAL ID  | 00226       | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | 00250 | 00251    |
|  | 0           | 0     | 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     | 5     | 7     | 7     | 6     | 7     | 7     | 6     | 7     | 7     | 6     | 7     | 7     | 6     | 7     | 7     | 6     | 7     | 7     | 6     | 7     | 7     | 5     | 7     | 5        |
|  | 3           | 3     | 3     | 3     | 3     | 9     | 2     | 2     | 5     | 2     | 1     | 0     | 5     | 2     | 2     | 7     | 2     | 1     | 8     | 2     | 3     | 5     | 3     | 2     | 2     | 1        |
|  | 0           | 0     | 0     | 0     | 0     | 3     | 9     | 9     | 5     | 9     | 5     | 6     | 5     | 9     | 9     | 0     | 9     | 9     | 1     | 9     | 1     | 9     | 0     | 4     | 2     | 1        |

ALIMENTARY SYSTEM

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 |
| Hepatocellular Adenoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   | 2  |
| Mesentery                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adenocarcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 1  |
| Pancreas                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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  
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Black Cohosh

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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg female | DAY ON TEST |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | * TOTALS |  |
|--|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--|
|  | 0700226     | 0700227 | 0700228 | 0700229 | 0700230 | 0700231 | 0700232 | 0700233 | 0700234 | 0700235 | 0700236 | 0700237 | 0700238 | 0700239 | 0700240 | 0700241 | 0700242 | 0700243 | 0700244 | 0700245 | 0700246 | 0700247 | 0700248 | 0700249 | 0700250 |          |  |
| ANIMAL ID  | 0002267     | 0002268 | 0002269 | 0002270 | 0002271 | 0002272 | 0002273 | 0002274 | 0002275 | 0002276 | 0002277 | 0002278 | 0002279 | 0002280 | 0002281 | 0002282 | 0002283 | 0002284 | 0002285 | 0002286 | 0002287 | 0002288 | 0002289 | 0002290 | 0002291 | 0002292  |  |
| Mammary Gland  | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |
| Adenocarcinoma   |             |         |         |         |         |         |         |         |         |         |         |         |         |         | X       |         | X       |         |         |         |         |         |         |         |         | 2        |  |
| Adenocarcinoma, Multiple                               |             |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | 1        |  |
| Adenoma  |             |         |         |         |         |         |         |         |         |         |         |         |         |         |         | X       |         |         |         |         |         |         |         |         |         | 1        |  |
| Fibroadenoma   | X           |         | X       | X       |         |         |         | X       | X       |         | X       |         |         |         | X       | X       |         |         | X       | X       |         | X       | X       | X       |         | 22       |  |
| Fibroadenoma, Multiple                                 |             |         |         |         | X       |         | X       |         |         |         | X       |         |         |         |         |         | X       |         |         |         |         |         |         |         |         | 7        |  |
| Skin   | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |
| Lipoma   |             |         |         |         |         |         |         |         |         | X       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | 1        |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                          |             |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |  |
| Bone   | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |
| <b>NERVOUS SYSTEM</b>                                  |             |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |  |
| Brain  | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |
| <b>RESPIRATORY SYSTEM</b>                              |             |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |  |
| Lung   | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |
| Adenocarcinoma, Metastatic, Mammary Gland              |             |         |         |         |         |         |         |         |         |         |         |         |         |         | X       |         |         |         |         |         |         |         |         |         |         | 2        |  |
| Nose   | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |
| Trachea  | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |
| <b>SPECIAL SENSES SYSTEM</b>                           |             |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |  |
| Eye  | +           | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | +       | 50       |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg female | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | * TOTALS |     |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|
|  | 070         | 073 | 075 | 077 | 077 | 076 | 077 | 077 | 076 | 077 | 077 | 076 | 077 | 077 | 076 | 077 | 077 | 076 | 077 | 077 | 076 | 077 | 077 | 076 |          | 077 |
|  | 002         | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |          | 000 |
| Harderian Gland  | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |
| Lacrimal Gland   |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1        |     |
| <b>URINARY SYSTEM</b>                                  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |
| Kidney   | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |
| Urinary Bladder  | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |
| <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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

|  |             |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>75 mg/kg female</b> | DAY ON TEST | 0634              | 0730  | 0730  | 0691  | 0665  | 0772  | 0772  | 0772  | 0772  | 0772  | 0632  | 0337  | 0337  | 0588  | 0668  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0626  | 0773  | 0773  | 0661  | 0773  | 0673  |
|  | ANIMAL ID   | 00251             | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | 00276 | 00277 |
|  |             | females (cont...) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Leiomyoma                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cholangioma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma                                       |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple                             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Malignant Mixed Sex Cord Stromal Tumor,<br>Metastatic, Ovary |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

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Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

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First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------------------|
|                 | 0634                              | 0730  | 0730  | 0691  | 0665  | 0772  | 0772  | 0772  | 0772  | 0772  | 0660  | 0332  | 0337  | 0588  | 0648  | 0733  | 0771  | 0771  | 0771  | 0771  | 0771  | 0664  | 0767  | 0673  |           |                   |
| 75 mg/kg female | 00251                             | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275     |                   |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex Adenoma                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla Pheochromocytoma Benign  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic Adenoma               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland                        | + | + | + | + | M | + | M | + | M | + | + | + | M | + | M | + | + | + | + | + | + | + | M | + | + |
| Pituitary Gland Pars Distalis, Adenoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland Bilateral, C-cell, Adenoma | X | X | X | 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  
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Black Cohosh

CAS Number: 84776-26-1

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Lab: BAT

|   |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |                       |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg female | DAY ON TEST | 0<br>6<br>3<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>6<br>9<br>1      | 0<br>6<br>0<br>5      | 0<br>7<br>2<br>9      | 0<br>7<br>1<br>2      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>6<br>2<br>0      | 0<br>3<br>3<br>7      | 0<br>5<br>8<br>8      | 0<br>6<br>4<br>8      | 0<br>7<br>3<br>0      | 0<br>7<br>7<br>0      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>6      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>6<br>1<br>4      | 0<br>7<br>3<br>0      | females<br>(cont...) |                       |
|   | ANIMAL ID   | 0<br>0<br>2<br>5<br>1 | 0<br>0<br>2<br>5<br>2 | 0<br>0<br>2<br>5<br>3 | 0<br>0<br>2<br>5<br>4 | 0<br>0<br>2<br>5<br>5 | 0<br>0<br>2<br>5<br>6 | 0<br>0<br>2<br>5<br>7 | 0<br>0<br>2<br>5<br>8 | 0<br>0<br>2<br>5<br>9 | 0<br>0<br>2<br>5<br>6 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>6 | 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>7 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>7 |                      | 0<br>0<br>2<br>2<br>7 |
| C-cell, Carcinoma                                       |             | X                     |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |                       |

GENERAL BODY SYSTEM

Peritoneum  
Adenocarcinoma, Metastatic, Uterus  
Malignant Mixed Sex Cord Stromal Tumor,  
Metastatic, Ovary

GENITAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland<br>Lymphoma Malignant   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary<br>Adenocarcinoma, Metastatic, Uterus<br>Carcinoma, Metastatic, Kidney<br>Malignant Mixed Sex Cord Stromal Tumor   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus<br>Leiomyosarcoma<br>Malignant Mixed Sex Cord Stromal Tumor,<br>Metastatic, Ovary<br>Papilloma, Squamous<br>Polyp Stromal<br>Cervix, Sarcoma<br>Endometrium, Adenocarcinoma<br>Endometrium, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + |
| Vagina   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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Black Cohosh

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|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>75 mg/kg female</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 | 0 | 0 | 0 |   |
|  | ANIMAL ID   | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 3 | 3 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 6 | 0 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 3 | 0 |
|  |             | 3 | 3 | 3 | 9 | 0 | 2 | 1 | 2 | 2 | 2 | 0 | 3 | 9 | 8 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 0 | 6 | 0 | 7 | 7 | 3 | 3 | 1 | 4 | 1 | 3 | 3 | 0 |
|  |             | 4 | 0 | 0 | 1 | 5 | 9 | 2 | 9 | 9 | 9 | 0 | 2 | 7 | 8 | 8 | 0 | 0 | 2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 |
|  |             | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|  |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |   |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

Harderian Gland

**URINARY SYSTEM**

Kidney  
 Amphophilic/Vacuolar Adenoma, Multiple  
 Amphophilic/Vacuolar Carcinoma, Multiple  
 Renal Tubule, Adenoma

Urinary Bladder  
 Adenocarcinoma, Metastatic, Uterus

**SYSTEMIC LESIONS**

Multiple Organ  
 Lymphoma Malignant

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Kidney                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Amphophilic/Vacuolar Adenoma, Multiple   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Amphophilic/Vacuolar Carcinoma, Multiple | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma                    | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg 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 | 0 | 0 | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|   | ANIMAL ID   | 7 | 6 | 3 | 7 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 4 | 7 | 6 | 7 | 6 |          |
|   |             | 2 | 7 | 8 | 2 | 2 | 9 | 1 | 1 | 3 | 1 | 2 | 0 | 7 | 2 | 2 | 3 | 3 | 6 | 7 | 3 | 8 | 2 | 3 | 2 | 7 |          |
|   |             | 9 | 5 | 6 | 9 | 9 | 9 | 2 | 5 | 0 | 2 | 9 | 2 | 2 | 9 | 9 | 0 | 0 | 3 | 0 | 0 | 2 | 9 | 3 | 9 | 5 |          |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|   |             | 0 | 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 | 3 |          |
|   |             | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |          |
|   |             | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |          |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leiomyoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma, Metastatic, Uterus                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 1  |
| Cholangioma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma, Multiple                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma, Metastatic, Uterus                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 1  |
| Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| 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 - 03  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/HSD

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

Date Report Requested: 11/13/2020  
 Time Report Requested: 09:33:45  
 First Dose M/F: 07/03/12 / 07/02/12  
 Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg 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 | 0  | 0  | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----------|
|   | ANIMAL ID   | 7 | 6 | 3 | 7 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 3 | 6 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 4 | 7 | 6 | 7  | 6  |          |
| Stomach, Forestomach                                    | 2           | 7 | 8 | 2 | 2 | 9 | 1 | 1 | 3 | 1 | 2 | 0 | 7 | 2 | 2 | 3 | 3 | 6 | 7 | 3 | 8 | 2 | 3 | 2 | 7  | 50 |          |
| Stomach, Glandular                                      | 9           | 5 | 6 | 9 | 9 | 9 | 2 | 5 | 0 | 2 | 9 | 2 | 2 | 2 | 9 | 0 | 0 | 3 | 0 | 0 | 2 | 9 | 3 | 9 | 5  | 50 |          |
| <b>CARDIOVASCULAR SYSTEM</b>                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |          |
| Blood Vessel  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 48 |          |
| Heart   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 50 |          |
| Schwannoma Malignant                                    |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3  | 1  |          |
| <b>ENDOCRINE SYSTEM</b>                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |          |
| Adrenal Cortex  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 50 |          |
| Adenoma   |             | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8  | 1  |          |
| Adrenal Medulla   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 50 |          |
| Pheochromocytoma Benign                                 |             | 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  |          |
| Islets, Pancreatic                                      |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 50 |          |
| Adenoma   |             | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8  | 1  |          |
| Parathyroid Gland                                       |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 40 |          |
| Pituitary Gland   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 50 |          |
| Pars Distalis, Adenoma                                  |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 18 | 18 |          |
| Thyroid Gland   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 49 |          |
| Bilateral, C-cell, Adenoma                              |             | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 1  | 1  |          |
| C-cell, Adenoma   |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 10 | 10 |          |

\* .. 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>75 mg/kg female</b> | DAY ON TEST | 079   | 065   | 0386  | 0729  | 0729  | 0499  | 0512  | 0615  | 0760  | 0772  | 0773  | 0362  | 0672  | 0676  | 0733  | 0673  | 0570  | 0742  | 0772  | 0663  | 0732  | 0673  | 0727  | 0676  | 0757  |
|  | ANIMAL ID   | 00276 | 00277 | 00278 | 00279 | 00280 | 00281 | 00282 | 00283 | 00284 | 00285 | 00286 | 00287 | 00288 | 00289 | 00290 | 00291 | 00292 | 00293 | 00294 | 00295 | 00296 | 00297 | 00298 | 00299 | 00300 |
|  | * TOTALS    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

Schwannoma Malignant

X

2

HEMATOPOIETIC SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node  |   |   | + |   |   |   |   |   |   |   |   |   |   | + | + | + | + |   |   |   |   |   |   |   |   |   | 6  |
| Deep Cervical, Carcinoma, Metastatic, Thyroid Gland       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreatic, Adenocarcinoma, Metastatic, Uterus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymph Node, Mandibular                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Thyroid Gland                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymph Node, Mesenteric                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus  | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |

INTEGUMENTARY SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma         |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Fibroadenoma           | X |   | X |   |   | X | X | X | X | X |   |   | X |   |   | X |   |   |   | X | X | X | X | X | X |   | 26 |
| Fibroadenoma, Multiple |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   | X | X |   |   |   |   |   |   |   |   | 5  |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg female   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-----|
|   | 079         | 065   | 038   | 072   | 072   | 049   | 051   | 061   | 073   | 077   | 077   | 030   | 067   | 072   | 062   | 073   | 063   | 057   | 073   | 048   |          | 072   | 063   | 072   | 067   | 065 |
| ANIMAL ID   | 00276       | 00077 | 00008 | 00007 | 00007 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000    | 00000 | 00000 | 00000 | 00000 |     |
| Skin  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |     |
| Fibroma   |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       |       |       | 2     |     |
| Keratoacanthoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |          |       |       |       | 1     |     |
| Schwannoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X        |       |       |       | 1     |     |
| <b>MUSCULOSKELETAL SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |     |
| Bone  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |     |
| <b>NERVOUS SYSTEM</b>                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |     |
| Brain   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |     |
| Meninges, Carcinoma, Metastatic, Kidney                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |     |
| <b>RESPIRATORY SYSTEM</b>                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |     |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |     |
| Adenocarcinoma, Metastatic, Mammary Gland                 |             |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |          |       |       |       | 1     |     |
| Carcinoma, Metastatic, Kidney                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |     |
| Carcinoma, Metastatic, Thyroid Gland                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |     |
| Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | X     |       | 1     |     |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |     |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |     |
| <b>SPECIAL SENSES SYSTEM</b>                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |     |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |     |

\* .. 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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Experiment Number: 00058 - 03

Test Type: CHRONIC

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>250 mg/kg female | DAY ON TEST |    | ANIMAL ID |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | females<br>(cont...) |
|--|-------------|----|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----------------------|
|  | 07          | 07 | 07        | 07 | 05 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 06 | 07 | 07 | 05 | 06 | 07 | 06 | 07 | 06 | 07 | 06 | 07 |  |                      |
|  | 2           | 2  | 2         | 2  | 7  | 3  | 7  | 5  | 0  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 0  | 9  | 1  | 3  | 9  | 4  | 2  | 9  | 2  | 9  | 2  | 9  |    |  |                      |
|  | 9           | 9  | 9         | 9  | 8  | 0  | 6  | 8  | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    |  |                      |
|  | 0           | 0  | 0         | 0  | 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  |    |  |                      |
|  | 0           | 0  | 0         | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |  |                      |
|  | 1           | 2  | 3         | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  |    |  |                      |

Stomach, Forestomach

+ +

Stomach, Glandular

+ +

Tooth

+

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart

+ +

Leukemia Mononuclear

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenocarcinoma, Metastatic, Uterus

Leukemia Mononuclear

X

Adrenal Medulla

+ +

Pheochromocytoma Benign

Islets, Pancreatic

+ +

Adenoma

Parathyroid Gland

+ + + + + M + + + + + + + + M + + + + + + + + M

Pituitary Gland

+ +

Pars Distalis, Adenoma

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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Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>250 mg/kg female | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|  | 079         | 079   | 079   | 079   | 078   | 076   | 076   | 076   | 077   | 077   | 077   | 077   | 077   | 077   | 077   | 076   | 076   | 076   | 077   | 077   | 075   | 076   | 077   | 076   |                      |
| ANIMAL ID  | 00301       | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 | 00321 | 00322 | 00323 | 00324 | 00325                |

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, C-cell, Adenoma |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Adenoma            | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |
| Follicular Cell, Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adenocarcinoma, Metastatic, Uterus |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granulosa Cell Tumor Malignant        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oviduct                               |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Papilloma, Squamous                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Polyp Stromal                         |   |   |   | X |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Carcinoma               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Squamous Cell Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Adenocarcinoma           |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Adenocarcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Endometrium, Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 - 03

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|   |             |                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                    |
|---|-------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>250 mg/kg female</b> | DAY ON TEST | 0729                   | 0729 | 0729 | 0729 | 0578 | 0776 | 0668 | 0774 | 0770 | 0770 | 0770 | 0770 | 0770 | 0770 | 0668 | 0668 | 0667 | 0775 | 0776 | 0594 | 0662 | 0779 | 0669 | 0772 | <b>females</b><br><b>(cont...)</b> |
|   | ANIMAL ID   | 0030                   | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |                                    |
|   |             | 1234567890111234567890 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                    |

Vagina +

HEMATOPOIETIC SYSTEM

Bone Marrow +

Lymph Node, Mandibular +

Lymph Node, Mesenteric +

Spleen +  
Adenocarcinoma, Metastatic, Uterus  
Leukemia Mononuclear X

Thymus + + + + + + + + + + M + + + + + + + + + + I + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland +  
Adenocarcinoma X

Adenoma  
Fibroadenoma X X X X X X  
Fibroadenoma, Multiple X X X X X X X X

Skin +  
Hemangiosarcoma

MUSCULOSKELETAL SYSTEM

Bone +

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+ .. Tissue examined microscopically  
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|--|-------------|----|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----|----|
|  | 07          | 07 | 07        | 07 | 05 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 06 | 07 | 07 | 05 | 06 |                      | 07 | 06 |
|  | 2           | 2  | 2         | 2  | 7  | 3  | 7  | 5  | 0  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 0  | 9  | 1  | 3  | 9  | 4  | 2                    | 9  | 2  |
|  | 9           | 9  | 9         | 9  | 8  | 0  | 6  | 8  | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 8  | 8  | 7  | 5  | 0  | 7  | 3  | 9                    | 0  | 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  |
|  | 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  |
|  | 0           | 0  | 0         | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2                    | 2  | 2  |
|  | 1           | 2  | 3         | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3                    | 4  | 5  |

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Lung +

Adenocarcinoma, Metastatic, Mammary Gland X

Adenocarcinoma, Metastatic, Uterus X

Alveolar/Bronchiolar Adenoma

Leukemia Mononuclear X

Nose + + + + + + + + + + + + + + X + + + + + + + + + +

Osteosarcoma X

Trachea +

SPECIAL SENSES SYSTEM

Eye +

Harderian Gland +

Sarcoma X

URINARY SYSTEM

Kidney +

Amphophilic/Vacuolar Adenoma, Multiple

Amphophilic/Vacuolar Carcinoma, Multiple

Leukemia Mononuclear X

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

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|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>250 mg/kg female</b> | DAY ON TEST | 07 | 07 | 07 | 07 | 05 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 06 | 07 | 07 | 05 | 06 | 07 | 06 | 07 |
|   | ANIMAL ID   | 09 | 09 | 09 | 09 | 08 | 00 | 06 | 08 | 04 | 00 | 00 | 00 | 00 | 00 | 00 | 08 | 08 | 07 | 05 | 03 | 09 | 04 | 02 | 09 | 02 |
|   |             | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  |

females  
(cont...)

Urinary Bladder

+ +

**SYSTEMIC LESIONS**

Multiple Organ  
Leukemia Mononuclear

+ + + + + + + + X + + + + + + + + + + + + + + + + +

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| DAY ON TEST      | HARLAN SPRAGUE DAWLEY RATS FEMALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |
|------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
|                  | 0644                              | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  | 0730  |          | 0730  | 0730  |
| 250 mg/kg female | 00326                             | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350    | 00351 | 00352 |
| ANIMAL ID        | 00326                             | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350    | 00351 | 00352 |

ALIMENTARY SYSTEM

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 |
| Hepatocellular Adenoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adenocarcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Oral Mucosa                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Gingival, Squamous Cell Papilloma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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M .. Missing tissue  
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|------------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
|                                    | 250 mg/kg female                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| ANIMAL ID                          | 0644                              | 0730 | 0730 | 0733 | 0733 | 0722 | 0722 | 0722 | 0360 | 0722 | 0428 | 0722 | 0733 | 0538 | 0726 | 0538 | 0722 | 0722 | 0638 | 0667 | 0730 | 0605 | 0730 | 0733 |          |  |
| Stomach, Forestomach               | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Stomach, Glandular                 | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Tooth                              |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| <b>CARDIOVASCULAR SYSTEM</b>       |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Blood Vessel                       | +                                 | +    |      | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 48       |  |
| Heart                              | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Leukemia Mononuclear               |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| <b>ENDOCRINE SYSTEM</b>            |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Adrenal Cortex                     | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Adenocarcinoma, Metastatic, Uterus |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Leukemia Mononuclear               |                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Adrenal Medulla                    | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Pheochromocytoma Benign            |                                   |      | X    |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |  |
| Islets, Pancreatic                 | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Adenoma                            |                                   |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 2        |  |
| Parathyroid Gland                  | M                                 | +    | M    | M    | +    | M    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | M    | M    | +    | M    | +    | +    | +    | 39       |  |
| Pituitary Gland                    | +                                 | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Pars Distalis, Adenoma             | X                                 | X    |      |      |      | X    |      |      |      | X    |      | X    | X    |      |      | X    | X    |      |      |      |      | X    | X    |      | 20       |  |

\* .. 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

Time Report Requested: 09:33:45

First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| DAY ON TEST                           | HARLAN SPRAGUE DAWLEY RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |    |  |
|---------------------------------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|--|
|                                       | 250 mg/kg female                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    |  |
| 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  |  |
| Thyroid Gland                         | +                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50 |  |
| Bilateral, C-cell, Adenoma            |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| C-cell, Adenoma                       |                                   |   |   | X |   |   |   |   |   | X |   |   |   |   | X |   | X | X |   |   |   |   |   |   |          | 9  |  |
| Follicular Cell, Adenoma              |                                   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| <b>GENERAL BODY SYSTEM</b>            |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    |  |
| Peritoneum                            |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| Adenocarcinoma, Metastatic, Uterus    |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| <b>GENITAL SYSTEM</b>                 |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    |  |
| Clitoral Gland                        | +                                 | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | +        | 49 |  |
| Adenoma                               |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| Ovary                                 | +                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50 |  |
| Granulosa Cell Tumor Malignant        |                                   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| Oviduct                               |                                   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2  |  |
| Uterus                                | +                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50 |  |
| Hemangiosarcoma                       |                                   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| Papilloma, Squamous                   | X                                 |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |          | 4  |  |
| Polyp Stromal                         |                                   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 6  |  |
| Squamous Cell Carcinoma               | X                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |          | 2  |  |
| Cervix, Squamous Cell Carcinoma       |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |          | 1  |  |
| Endometrium, Adenocarcinoma           |                                   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |          | 4  |  |
| Endometrium, Adenocarcinoma, Multiple |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1  |  |
| Endometrium, Adenoma                  |                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 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  
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Experiment Number: 00058 - 03

Test Type: CHRONIC

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

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First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| DAY ON TEST<br>HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>250 mg/kg female | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|   | 0644      | 0673 | 0673 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 |          |
| Vagina  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| <b>HEMATOPOIETIC SYSTEM</b>   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Bone Marrow   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Lymph Node, Mandibular  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Lymph Node, Mesenteric  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Spleen  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Adenocarcinoma, Metastatic, Uterus                                      |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| Leukemia Mononuclear  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| Thymus  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 48       |
| <b>INTEGUMENTARY SYSTEM</b>   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Mammary Gland   | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Adenocarcinoma  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| Adenoma   |           |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| Fibroadenoma  |           |      |      |      |      |      |      |      |      |      | X    | X    | X    | X    | X    |      |      |      |      |      |      |      |      | X    |      | 15       |
| Fibroadenoma, Multiple  |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 7        |
| Skin  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Hemangiosarcoma   |           | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| <b>MUSCULOSKELETAL SYSTEM</b>   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Bone  | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

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First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>750 mg/kg female | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|  | 0729        | 0600  | 0602  | 0607  | 0607  | 0607  | 0606  | 0606  | 0607  | 0607  | 0605  | 0607  | 0607  | 0606  | 0606  | 0605  | 0606  | 0607  | 0607  | 0607  | 0604  | 0605  | 0605  | 0604  |                      |
| ANIMAL ID  | 00351       | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375                |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands  | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Stomach, Forestomach                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular<br>Adenocarcinoma, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel   | + | + | + | + | + | + |   | + | + | + |   | M | + |   | + | + | + | + | + |   | + | + | + | + | + |
| Heart<br>Schwannoma Malignant<br>Squamous Cell Carcinoma, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Leukemia Mononuclear<br>Capsule, Squamous Cell Carcinoma,<br>Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla<br>Leukemia Mononuclear<br>Pheochromocytoma Benign                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic  | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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|   |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>750 mg/kg female</b> | DAY ON TEST       | 079   | 060   | 062   | 047   | 072   | 072   | 065   | 067   | 072   | 070   | 072   | 057   | 076   | 066   | 053   | 067   | 073   | 073   | 043   | 055   | 057   | 047   | 053   |
|   | ANIMAL ID         | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 |
|   | females (cont...) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland          | M | M | + | + | M | + | + | + | M | + | + | M | + | + | + | + | + | + | + | M | + | I | + | + | M |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma     |   |   | X |   |   | X |   |   |   | X |   | X |   |   |   |   | X |   |   | X |   |   |   |   |   |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Bilateral, C-cell, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| C-cell, Adenoma            | X |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma                     |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Kidney               |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Polyp Stromal                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Endometrium, Adenocarcinoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Adenocarcinoma, Multiple       |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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+ .. Tissue examined microscopically  
X .. Lesion present  
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>750 mg/kg female     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|  | 0729        | 0600  | 0622  | 0647  | 0672  | 0677  | 0666  | 0666  | 0677  | 0600  | 0677  | 0655  | 0677  | 0666  | 0666  | 0655  | 0666  | 0677  | 0677  | 0677  | 0644  | 0655  | 0655  | 0644  |                      |
| ANIMAL ID  | 00351       | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375                |
| Adenocarcinoma, Multiple Fibroadenoma Fibroadenoma, Multiple | X           |       |       |       | X     |       |       | X     | X     |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |                      |
| Skin Fibroma Squamous Cell Carcinoma                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +                    |

MUSCULOSKELETAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle Squamous Cell Carcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

NERVOUS SYSTEM

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung Adenocarcinoma, Metastatic, Mammary Gland Adenocarcinoma, Metastatic, Uterus Carcinoma, Metastatic, Kidney Squamous Cell Carcinoma, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea   | + | + | + | + | + | + | + | + | + | + | 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 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 11/13/2020

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First Dose M/F: 07/03/12 / 07/02/12

Lab: BAT

|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>750 mg/kg female</b> | DAY ON TEST | 07 | 07 | 05 | 05 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 05 | 06 | 07 | 05 | 05 | 05 | 07 | 07 | 04 | 07 | 06 | 07 | <b>* TOTALS</b> |
|   | ANIMAL ID   | 29 | 29 | 07 | 07 | 21 | 33 | 33 | 33 | 41 | 30 | 29 | 29 | 59 | 01 | 22 | 48 | 40 | 03 | 90 | 30 | 00 | 00 | 19 |    |                 |
|   |             | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |                 |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | <b>49</b> |
| Intestine Large, Cecum                      | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b> |
| Intestine Large, Colon                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | <b>48</b> |
| Adenocarcinoma, Metastatic, Uterus          |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Cholangioma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Hepatocellular Adenoma                      |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | <b>1</b>  |
| Mesentery                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   | <b>1</b>  |
| Squamous Cell Carcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>1</b>  |
| Pancreas                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b> |
| Adenocarcinoma, Metastatic, Uterus          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | <b>1</b>  |
| Squamous Cell Carcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>1</b>  |
| Acinus, Adenoma                             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. 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: 11/13/2020

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>750 mg/kg female | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |     |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-----|
|  | 079         | 079   | 050   | 051   | 079   | 070   | 070   | 070   | 061   | 070   | 079   | 079   | 065   | 069   | 072   | 058   | 056   | 050   | 070   | 074   |          | 073   | 048   | 073   | 060   | 071   | 067 |
| ANIMAL ID  | 00376       | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396    | 00397 | 00398 | 00399 | 00400 | 00401 |     |
| Parathyroid Gland  | +           | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | M     | +        | +     | +     | +     | +     | M     | 38  |
| Pituitary Gland  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50  |
| Pars Distalis, Adenoma                                   |             | X     |       |       |       |       | X     |       |       |       | X     |       |       |       | X     |       |       |       |       |       |          | X     |       |       |       | 11    |     |
| Thyroid Gland  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 49    |     |
| Bilateral, C-cell, Adenoma                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1     |     |
| C-cell, Adenoma  |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | X     | X     |       |       |       | X        |       | X     |       |       | 9     |     |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 49 |
| Squamous Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 2  |
| Ovary                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 |
| Adenocarcinoma, Metastatic, Uterus          |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Kidney               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |
| Uterus                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 49 |
| Hemangiosarcoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Polyp Stromal                               |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |
| Bilateral, Polyp Stromal                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Endometrium, Adenocarcinoma                 |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 2  |
| Endometrium, Adenocarcinoma, Multiple       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 2  |

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 + .. Tissue examined microscopically  
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Black Cohosh

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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>750 mg/kg female | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |       | * TOTALS |  |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|----------|--|
|  | 07<br>29    | 07<br>29 | 05<br>70 | 05<br>71 | 07<br>29 | 07<br>30 | 07<br>30 | 07<br>30 | 06<br>41 | 07<br>70 | 07<br>70 | 07<br>70 | 06<br>59 | 05<br>69 | 06<br>71 | 05<br>82 | 05<br>82 | 05<br>82 | 07<br>40 | 07<br>40 | 04<br>38 | 07<br>30 | 06<br>00 | 07<br>69 |       |          |  |
| ANIMAL ID  | 00376       | 00377    | 00378    | 00379    | 00380    | 00381    | 00382    | 00383    | 00384    | 00385    | 00386    | 00387    | 00388    | 00389    | 00390    | 00391    | 00392    | 00393    | 00394    | 00395    | 00396    | 00397    | 00398    | 00399    | 00400 |          |  |
| Adenocarcinoma, Multiple                                 |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | X     | 1        |  |
| Fibroadenoma   |             |          |          | X        | X        |          |          | X        | X        |          |          |          |          |          |          |          |          |          |          | X        |          |          |          |          | X     | 9        |  |
| Fibroadenoma, Multiple                                   |             |          |          |          |          |          |          |          |          |          |          |          |          |          | X        |          |          |          |          |          |          |          |          |          |       | 4        |  |
| Skin   | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +     | 50       |  |
| Fibroma  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |       | 1        |  |
| Squamous Cell Carcinoma                                  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |       | 1        |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                            |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |       |          |  |
| Bone   | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +     | 50       |  |
| Skeletal Muscle  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | +     | 1        |  |
| Squamous Cell Carcinoma, Metastatic, Uterus              |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | X     | 1        |  |
| <b>NERVOUS SYSTEM</b>                                    |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |       |          |  |
| Brain  | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +     | 50       |  |
| <b>RESPIRATORY SYSTEM</b>                                |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |       |          |  |
| Lung   | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | M     | 48       |  |
| Adenocarcinoma, Metastatic, Mammary Gland                |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | X        |          |          |          |          |          |       | 1        |  |
| Adenocarcinoma, Metastatic, Uterus                       |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | X        |          |          |          |       | 1        |  |
| Carcinoma, Metastatic, Kidney                            |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |       | 1        |  |
| Squamous Cell Carcinoma, Metastatic, Uterus              |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | X        |          |          |          |       | 1        |  |
| Nose   | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +     | 50       |  |
| Trachea  | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | M     | 48       |  |

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