

Experiment Number: 00058 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/HSD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
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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Harlan Sprague Dawley RATS MALE	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	16	14	11	8
Natural Death	19	20	18	26
Survivors				
Natural Death		1		
Terminal Sacrifice	15	15	21	16
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(49)	(50)	(49)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Schwannoma Malignant			1 (2%)	
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(49)	(49)
Intestine Small, Ileum	(49)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Carcinoma		2 (4%)		
Leukemia Mononuclear		1 (2%)		
Liver	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Kidney				1 (2%)
Cholangioma		1 (2%)		
Hepatocellular Adenoma		1 (2%)		2 (4%)
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic	1 (2%)			1 (2%)
Leukemia Mononuclear		2 (4%)		
Mesentery	(0)	(3)	(1)	(0)
Leukemia Mononuclear		1 (33%)		
Oral Mucosa	(0)	(0)	(1)	(0)
Buccal, Squamous Cell Carcinoma			1 (100%)	
Pancreas	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			

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Leukemia Granulocytic				1 (2%)
Schwannoma Malignant			1 (2%)	
Acinus, Adenoma	4 (8%)	3 (6%)		2 (4%)
Acinus, Adenoma, Multiple	2 (4%)	2 (4%)	6 (12%)	2 (4%)
Acinus, Carcinoma	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)
Fibrosarcoma, Metastatic, Skin	1 (2%)			
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic				1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Leukemia Mononuclear		1 (2%)		
Tongue	(0)	(1)	(0)	(0)
Tooth	(0)	(3)	(0)	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(32)	(33)	(32)	(33)
Heart	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			
Leukemia Mononuclear		1 (2%)		
Neuroendocrine Tumor, Benign			1 (2%)	

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	
Carcinoma				1 (2%)
Histiocytic Sarcoma, Metastatic, Liver	1 (2%)			
Leukemia Mononuclear		2 (4%)		
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	12 (24%)	8 (16%)	5 (10%)	7 (14%)
Pheochromocytoma Malignant				1 (2%)
Bilateral, Pheochromocytoma Benign	2 (4%)	2 (4%)	1 (2%)	3 (6%)
Islets, Pancreatic	(50)	(50)	(50)	(50)

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Harlan Sprague Dawley RATS MALE	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Adenoma	4 (8%)		2 (4%)	1 (2%)
Adenoma, Mixed Cell		1 (2%)		
Carcinoma				1 (2%)
Parathyroid Gland	(49)	(47)	(44)	(39)
Adenoma		1 (2%)		
Pituitary Gland	(50)	(50)	(50)	(50)
Leukemia Granulocytic				1 (2%)
Meningioma Malignant, Metastatic, Brain			1 (2%)	
Pars Distalis, Adenoma	12 (24%)	7 (14%)	12 (24%)	6 (12%)
Thyroid Gland	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Kidney			2 (4%)	
Bilateral, C-cell, Adenoma			1 (2%)	
Bilateral, C-cell, Adenoma, Multiple	1 (2%)			
C-cell, Adenoma	10 (20%)	5 (10%)	7 (14%)	7 (14%)
C-cell, Adenoma, Multiple		1 (2%)	1 (2%)	
C-cell, Carcinoma	1 (2%)			1 (2%)
Follicular Cell, Adenoma				1 (2%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			
Mesothelioma Malignant	2 (4%)		1 (2%)	
Preputial Gland	(50)	(50)	(50)	(50)
Papilloma, Squamous		1 (2%)		
Prostate	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		1 (2%)		
Seminal Vesicle	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			

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Harlan Sprague Dawley RATS MALE	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Leukemia Mononuclear		1 (2%)		
Testis	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			
Mesothelioma Malignant			1 (2%)	
Bilateral, Interstitial Cell, Adenoma, Multiple			1 (2%)	
Interstitial Cell, Adenoma	1 (2%)	1 (2%)		1 (2%)
<hr/>				
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic	1 (2%)			1 (2%)
Leukemia Mononuclear		2 (4%)		
Lymph Node	(5)	(4)	(3)	(4)
Bronchial, Carcinoma, Metastatic, Thyroid Gland		1 (25%)		
Inguinal, Leukemia Granulocytic				1 (25%)
Lumbar, Leukemia Granulocytic				1 (25%)
Lumbar, Leukemia Mononuclear		1 (25%)		
Mediastinal, Histiocytic Sarcoma	1 (20%)			
Mediastinal, Leukemia Granulocytic				1 (25%)
Mediastinal, Leukemia Mononuclear		1 (25%)		
Pancreatic, Leukemia Mononuclear		1 (25%)		
Renal, Histiocytic Sarcoma	1 (20%)			
Renal, Leukemia Granulocytic				1 (25%)
Renal, Leukemia Mononuclear		1 (25%)		
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		2 (4%)		
Lymph Node, Mesenteric	(50)	(50)	(49)	(48)
Carcinoma, Metastatic, Kidney				1 (2%)
Histiocytic Sarcoma	1 (2%)			
Leukemia Mononuclear		2 (4%)		
Spleen	(50)	(50)	(49)	(50)

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Hemangiosarcoma				1 (2%)
Leukemia Granulocytic	1 (2%)			1 (2%)
Leukemia Mononuclear		2 (4%)		
Thymus	(46)	(48)	(46)	(49)
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		2 (4%)		

INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(48)	(49)	(48)
Adenocarcinoma		1 (2%)		
Fibroadenoma	3 (6%)	1 (2%)	2 (4%)	1 (2%)
Skin	(50)	(50)	(50)	(50)
Fibroma	3 (6%)	1 (2%)	4 (8%)	5 (10%)
Fibroma, Multiple	1 (2%)			
Fibrosarcoma	1 (2%)	1 (2%)		1 (2%)
Hemangioma		1 (2%)		
Hemangiosarcoma			1 (2%)	
Histiocytic Sarcoma	1 (2%)			
Keratoacanthoma	1 (2%)	3 (6%)	2 (4%)	3 (6%)
Keratoacanthoma, Multiple		1 (2%)		
Leukemia Mononuclear		1 (2%)		
Lipoma	1 (2%)	1 (2%)		
Lipoma, Multiple	1 (2%)			
Liposarcoma		1 (2%)		
Sarcoma	1 (2%)	1 (2%)		
Schwannoma Malignant			1 (2%)	
Squamous Cell Papilloma			1 (2%)	
Sebaceous Gland, Adenoma		1 (2%)		

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(0)	(1)	(3)
Leukemia Granulocytic				1 (33%)

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Sarcoma			1 (100%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(49)	(50)
Glioma Malignant	1 (2%)			
Granular Cell Tumor Benign	3 (6%)		1 (2%)	1 (2%)
Leukemia Mononuclear		1 (2%)		
Meningioma Malignant			1 (2%)	
Meninges, Carcinoma, Metastatic, Kidney			1 (2%)	
Meninges, Meningioma Malignant				1 (2%)
Pineal Gland, Leukemia Granulocytic				1 (2%)
Nerve Trigeminal	(0)	(1)	(0)	(0)
Leukemia Mononuclear		1 (100%)		
Peripheral Nerve	(0)	(1)	(1)	(2)
Spinal Cord	(0)	(1)	(1)	(2)
Leukemia Granulocytic				1 (50%)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Adrenal Cortex				1 (2%)
Carcinoma, Metastatic, Thyroid Gland				1 (2%)
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		2 (4%)		
Nose	(50)	(50)	(50)	(50)
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		1 (2%)		
Trachea	(50)	(50)	(50)	(50)
Leukemia Granulocytic				1 (2%)
SPECIAL SENSES SYSTEM				

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Harlan Sprague Dawley RATS MALE	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Eye	(50)	(50)	(50)	(50)
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		1 (2%)		
Meningioma Malignant, Metastatic, Brain			1 (2%)	
Harderian Gland	(50)	(50)	(50)	(50)
Leukemia Granulocytic				1 (2%)
Zymbal's Gland	(2)	(1)	(1)	(0)
Adenoma	1 (50%)			
Carcinoma	1 (50%)	1 (100%)	1 (100%)	

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Amphophilic/Vacuolar Adenoma, Multiple			2 (4%)	2 (4%)
Amphophilic/Vacuolar Carcinoma			2 (4%)	
Amphophilic/Vacuolar Carcinoma, Multiple				1 (2%)
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		2 (4%)		
Lipoma	1 (2%)			
Oncocytoma Benign	1 (2%)	1 (2%)		
Renal Tubule, Adenoma			1 (2%)	
Urinary Bladder	(50)	(50)	(50)	(50)
Leukemia Granulocytic				1 (2%)
Leukemia Mononuclear		1 (2%)		

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma	1 (2%)			
Leukemia Granulocytic	1 (2%)			1 (2%)
Leukemia Mononuclear		2 (4%)		
Mesothelioma Malignant	2 (4%)		1 (2%)	

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* Number of animals with any tissue examined microscopically

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Harlan Sprague Dawley RATS MALE	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	33	34	36	35
Total Primary Neoplasms	74	53	62	53
Total Animals with Benign Neoplasms	30	30	30	30
Total Benign Neoplasms	64	44	48	42
Total Animals with Malignant Neoplasms	10	8	8	7
Total Malignant Neoplasms	10	9	9	8
Total Animals with Metastatic Neoplasms	2	1	3	3
Total Metastatic Neoplasms	2	1	5	4
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant			3	2
Total Uncertain Neoplasms			5	3

*** END OF MALE ***

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b - Primary tumors: all tumors except metastatic tumors

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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	13	14	15	14
Natural Death	9	12	6	16
Survivors				
Terminal Sacrifice	28	24	29	20
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(49)
Intestine Large, Cecum	(50)	(50)	(50)	(49)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Leiomyoma		1 (2%)		
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(48)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		1 (2%)
Cholangioma		1 (2%)		1 (2%)
Hepatocellular Adenoma	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Hepatocellular Adenoma, Multiple		1 (2%)		
Leukemia Mononuclear			1 (2%)	1 (2%)
Squamous Cell Carcinoma, Metastatic, Uterus				1 (2%)
Mesentery	(1)	(0)	(1)	(1)
Adenocarcinoma, Metastatic, Uterus	1 (100%)		1 (100%)	
Squamous Cell Carcinoma, Metastatic, Uterus				1 (100%)
Oral Mucosa	(0)	(0)	(1)	(0)
Gingival, Squamous Cell Papilloma			1 (100%)	
Pancreas	(50)	(50)	(50)	(49)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		1 (2%)
Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary		1 (2%)		

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Squamous Cell Carcinoma, Metastatic, Uterus				1 (2%)
Acinus, Adenoma				1 (2%)
Salivary Glands	(50)	(50)	(50)	(48)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Tooth	(0)	(0)	(1)	(1)

CARDIOVASCULAR SYSTEM

Blood Vessel	(49)	(48)	(48)	(43)
Heart	(50)	(50)	(50)	(48)
Leukemia Mononuclear			1 (2%)	
Schwannoma Malignant	1 (2%)	1 (2%)		1 (2%)
Squamous Cell Carcinoma, Metastatic, Uterus				1 (2%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(48)
Adenocarcinoma, Metastatic, Uterus			1 (2%)	
Adenoma	2 (4%)	1 (2%)		
Leukemia Mononuclear			1 (2%)	1 (2%)
Capsule, Squamous Cell Carcinoma, Metastatic, Uterus				1 (2%)
Adrenal Medulla	(50)	(50)	(50)	(48)
Leukemia Mononuclear				1 (2%)
Pheochromocytoma Benign	3 (6%)	4 (8%)	2 (4%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(49)
Adenoma	1 (2%)	1 (2%)	2 (4%)	
Parathyroid Gland	(46)	(40)	(39)	(38)
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	20 (40%)	18 (36%)	20 (40%)	11 (22%)
Thyroid Gland	(50)	(49)	(50)	(49)
Bilateral, C-cell, Adenoma	1 (2%)	1 (2%)	1 (2%)	1 (2%)
C-cell, Adenoma	8 (16%)	10 (20%)	9 (18%)	9 (18%)

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C-cell, Carcinoma		2 (4%)		
Follicular Cell, Adenoma			1 (2%)	

GENERAL BODY SYSTEM

Peritoneum	(0)	(2)	(1)	(0)
Adenocarcinoma, Metastatic, Uterus		1 (50%)	1 (100%)	
Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary		1 (50%)		

GENITAL SYSTEM

Clitoral Gland	(49)	(48)	(49)	(49)
Adenoma			1 (2%)	
Lymphoma Malignant		1 (2%)		
Squamous Cell Carcinoma	1 (2%)			2 (4%)
Ovary	(50)	(50)	(50)	(49)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		1 (2%)
Carcinoma, Metastatic, Kidney		1 (2%)		1 (2%)
Granulosa Cell Tumor Malignant			1 (2%)	
Malignant Mixed Sex Cord Stromal Tumor		1 (2%)		
Squamous Cell Carcinoma, Metastatic, Uterus				1 (2%)
Oviduct	(0)	(0)	(2)	(0)
Uterus	(50)	(50)	(50)	(49)
Hemangiosarcoma			1 (2%)	1 (2%)
Leiomyosarcoma		1 (2%)		
Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary		1 (2%)		
Papilloma, Squamous, Multiple	1 (2%)			
Papilloma, Squamous		1 (2%)	4 (8%)	
Polyp Stromal	5 (10%)	4 (8%)	6 (12%)	2 (4%)
Polyp Stromal, Multiple	3 (6%)			
Squamous Cell Carcinoma	1 (2%)		2 (4%)	1 (2%)
Bilateral, Polyp Stromal	1 (2%)			1 (2%)
Cervix, Sarcoma		1 (2%)		

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Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Cervix, Squamous Cell Carcinoma			1 (2%)	
Endometrium, Adenocarcinoma	2 (4%)	2 (4%)	4 (8%)	2 (4%)
Endometrium, Adenocarcinoma, Multiple			1 (2%)	2 (4%)
Endometrium, Adenoma		1 (2%)	1 (2%)	
Vagina	(50)	(50)	(50)	(50)
Schwannoma Malignant		2 (4%)		
Squamous Cell Carcinoma				1 (2%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(0)	(6)	(0)	(3)
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland		1 (17%)		
Lumbar, Squamous Cell Carcinoma, Metastatic, Uterus				1 (33%)
Mediastinal, Squamous Cell Carcinoma, Metastatic, Uterus				1 (33%)
Pancreatic, Adenocarcinoma, Metastatic, Uterus		1 (17%)		
Renal, Squamous Cell Carcinoma, Metastatic, Uterus				1 (33%)
Lymph Node, Mandibular	(50)	(50)	(50)	(49)
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Lymph Node, Mesenteric	(50)	(50)	(50)	(49)
Spleen	(50)	(50)	(50)	(49)
Adenocarcinoma, Metastatic, Uterus			1 (2%)	1 (2%)
Leukemia Mononuclear			1 (2%)	1 (2%)
Thymus	(49)	(49)	(48)	(48)
Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary		1 (2%)		
Squamous Cell Carcinoma, Metastatic, Uterus				1 (2%)
Thymoma Malignant				1 (2%)
INTEGUMENTARY SYSTEM				

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

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

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 FEMALE	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Mammary Gland	(50)	(50)	(50)	(49)
Adenocarcinoma	2 (4%)	2 (4%)	1 (2%)	2 (4%)
Adenocarcinoma, Multiple	1 (2%)			1 (2%)
Adenoma	1 (2%)		1 (2%)	
Fibroadenoma	22 (44%)	26 (52%)	15 (30%)	9 (18%)
Fibroadenoma, Multiple	7 (14%)	5 (10%)	7 (14%)	4 (8%)
Lymphoma Malignant		1 (2%)		
Skin	(50)	(50)	(50)	(50)
Fibroma		2 (4%)		1 (2%)
Hemangiosarcoma			1 (2%)	
Keratoacanthoma		1 (2%)		
Lipoma	1 (2%)			
Schwannoma Malignant		1 (2%)		
Squamous Cell Carcinoma				1 (2%)

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(0)	(0)	(1)
Squamous Cell Carcinoma, Metastatic, Uterus				1 (100%)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Meninges, Carcinoma, Metastatic, Kidney		1 (2%)		

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(48)
Adenocarcinoma, Metastatic, Mammary Gland	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Adenocarcinoma, Metastatic, Uterus			1 (2%)	1 (2%)
Alveolar/Bronchiolar Adenoma			1 (2%)	
Carcinoma, Metastatic, Kidney		1 (2%)		1 (2%)
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		

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

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

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 FEMALE	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Leukemia Mononuclear			1 (2%)	
Malignant Mixed Sex Cord Stromal Tumor, Metastatic, Ovary		1 (2%)		
Squamous Cell Carcinoma, Metastatic, Uterus				1 (2%)
Nose	(50)	(50)	(50)	(50)
Osteosarcoma			1 (2%)	
Trachea	(50)	(50)	(50)	(48)
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SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Sarcoma			1 (2%)	
Lacrimal Gland	(1)	(0)	(0)	(0)
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URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(49)
Amphophilic/Vacuolar Adenoma, Multiple		1 (2%)	1 (2%)	1 (2%)
Amphophilic/Vacuolar Carcinoma, Multiple		2 (4%)	1 (2%)	1 (2%)
Leukemia Mononuclear			1 (2%)	
Renal Tubule, Adenoma		1 (2%)		1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		
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SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Leukemia Mononuclear			1 (2%)	1 (2%)
Lymphoma Malignant		1 (2%)		

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

* Number of animals with any tissue examined microscopically

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

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 FEMALE	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	46	47	45	32
Total Primary Neoplasms	86	97	90	61
Total Animals with Benign Neoplasms	44	46	44	31
Total Benign Neoplasms	78	80	73	43
Total Animals with Malignant Neoplasms	7	13	13	13
Total Malignant Neoplasms	8	14	15	16
Total Animals with Metastatic Neoplasms	3	5	3	5
Total Metastatic Neoplasms	3	18	6	21
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant		2	1	1
Total Uncertain Neoplasms		3	2	2

*** END OF REPORT ***

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

b - Primary tumors: all tumors except metastatic tumors