

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
Time Report Requested: 15:59:32
First Dose M/F: 07/03/12 / 07/02/12
Lab: BAT

Custom Report with Litter-Based Statistics

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: 2.5.0.0_SFH
PWG Approval Date: NONE

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex

Adrenal Medulla

Brain

Clitoral/Preputial Gland

Islets, Pancreatic

Kidney

Liver

Pancreas

Pituitary Gland

Thyroid Gland

Uterus (excluding Uterus, Cervix)

Uterus (including Uterus, Cervix)

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF BLACK COHOSH

MALE RATS

Organ

Adrenal Medulla

Morphology

Pheochromocytoma Benign

Pheochromocytoma: Benign, Complex, Malignant, NOS

FEMALE RATS

Organ

Mammary Gland

Morphology

Fibroadenoma

Fibroma, Fibroadenoma or Adenoma

Fibroma, Fibroadenoma, Carcinoma, or Adenoma

Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant

Polyp Stromal

Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant

Polyp Stromal

Benign Tumors

Malignant Tumors

Malignant and Benign Tumors

Uterus (excluding Uterus, Cervix)

Uterus (including Uterus, Cervix)

All Organs

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Adrenal Cortex				
Adenoma				
<hr/>				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	0/37.00	1/39.36	0/37.21
POLY-3 PERCENT (g)	0%	0%	2.5%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	558	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Adrenal Medulla				
Pheochromocytoma Benign				
<hr/>				
TUMOR RATES				
OVERALL (a)	14/50 (28%)	10/50 (20%)	6/50 (12%)	10/50 (20%)
LITTERS (b)	12/25 (48%)	10/25 (40%)	6/25 (24%)	9/25 (36%)
POLY-3 RATE (c)	14/40.56	10/37.85	6/39.15	10/38.91
POLY-3 PERCENT (g)	34.5%	26.4%	15.3%	25.7%
TERMINAL (d)	7/15 (47%)	5/15 (33%)	3/21 (14%)	4/16 (25%)
FIRST INCIDENCE	562	654	664	520
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STATISTICAL TESTS				
POLY 3	P=0.321N	P=0.293N	P=0.038N*	P=0.266N
POLY 1.5	P=0.319N	P=0.267N	P=0.038N*	P=0.250N
POLY 6	P=0.324N	P=0.326N	P=0.036N*	P=0.284N
RAO-SCOTT	P=0.328N	P=0.289N	P=0.044N*	P=0.264N
LITTER C-A/FISHERS	P=0.311N	P=0.388N	P=0.070N	P=0.284N

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	14/50 (28%)	10/50 (20%)	6/50 (12%)	11/50 (22%)
LITTERS (b)	12/25 (48%)	10/25 (40%)	6/25 (24%)	10/25 (40%)
POLY-3 RATE (c)	14/40.56	10/37.85	6/39.15	11/39.30
POLY-3 PERCENT (g)	34.5%	26.4%	15.3%	28%
TERMINAL (d)	7/15 (47%)	5/15 (33%)	3/21 (14%)	4/16 (25%)
FIRST INCIDENCE	562	654	664	520
STATISTICAL TESTS				
POLY 3	P=0.429N	P=0.293N	P=0.038N*	P=0.346N
POLY 1.5	P=0.428N	P=0.267N	P=0.038N*	P=0.331N
POLY 6	P=0.427N	P=0.326N	P=0.036N*	P=0.360N
RAO-SCOTT	P=0.429N	P=0.288N	P=0.043N*	P=0.339N
LITTER C-A/FISHERS	P=0.440N	P=0.388N	P=0.070N	P=0.388N

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Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Brain				
Granular Cell Tumor Benign				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/49 (2%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	3/39.02	0/37.00	1/38.62	1/37.75
POLY-3 PERCENT (g)	7.7%	0%	2.6%	2.7%
TERMINAL (d)	1/15 (7%)	0/15 (0%)	1/21 (5%)	0/16 (0%)
FIRST INCIDENCE	646	---	730 (T)	564
STATISTICAL TESTS				
POLY 3	P=0.435N	P=0.127N	P=0.308N	P=0.316N
POLY 1.5	P=0.437N	P=0.123N	P=0.309N	P=0.310N
POLY 6	P=0.431N	P=0.132N	P=0.301N	P=0.323N
RAO-SCOTT	P=0.449N	P=0.157N	P=0.331N	P=0.335N
LITTER C-A/FISHERS	P=0.441N	P=0.117N	P=0.305N	P=0.305N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Clitoral/Preputial Gland Squamous Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	0/37.00	0/38.80	0/37.21
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Intestine Small: Jejunum Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	2/37.20	0/38.80	0/37.21
POLY-3 PERCENT (g)	0%	5.4%	0%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	680	---	---
STATISTICAL TESTS				
POLY 3	P=0.379N	P=0.228	(e)	(e)
POLY 1.5	P=0.373N	P=0.233	(e)	(e)
POLY 6	P=0.384N	P=0.224	(e)	(e)
RAO-SCOTT	P=0.455N	P=0.345	(e)	(e)
LITTER C-A/FISHERS	P=0.368N	P=0.245	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Intestine Small: Site Unspecified Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	2/37.20	0/38.80	0/37.21
POLY-3 PERCENT (g)	0%	5.4%	0%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	680	---	---
STATISTICAL TESTS				
POLY 3	P=0.379N	P=0.228	(e)	(e)
POLY 1.5	P=0.373N	P=0.233	(e)	(e)
POLY 6	P=0.384N	P=0.224	(e)	(e)
RAO-SCOTT	P=0.455N	P=0.345	(e)	(e)
LITTER C-A/FISHERS	P=0.368N	P=0.245	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	4/38.56	1/37.00	2/38.97	1/37.56
POLY-3 PERCENT (g)	10.4%	2.7%	5.1%	2.7%
TERMINAL (d)	4/15 (27%)	1/15 (7%)	1/21 (5%)	0/16 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	688	632
STATISTICAL TESTS				
POLY 3	P=0.235N	P=0.189N	P=0.331N	P=0.184N
POLY 1.5	P=0.236N	P=0.184N	P=0.334N	P=0.181N
POLY 6	P=0.233N	P=0.193N	P=0.316N	P=0.186N
RAO-SCOTT	P=0.285N	P=0.242N	P=0.372N	P=0.238N
LITTER C-A/FISHERS	P=0.341N	P=0.305N	P=0.500N	P=0.305N

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	4/38.56	1/37.00	2/38.97	2/37.61
POLY-3 PERCENT (g)	10.4%	2.7%	5.1%	5.3%
TERMINAL (d)	4/15 (27%)	1/15 (7%)	1/21 (5%)	0/16 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	688	632
STATISTICAL TESTS				
POLY 3	P=0.454N	P=0.189N	P=0.331N	P=0.347N
POLY 1.5	P=0.454N	P=0.184N	P=0.334N	P=0.341N
POLY 6	P=0.452N	P=0.193N	P=0.316N	P=0.350N
RAO-SCOTT	P=0.469N	P=0.229N	P=0.361N	P=0.373N
LITTER C-A/FISHERS	P=0.587N	P=0.305N	P=0.500N	P=0.500N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male

**Kidney: Renal Tubule
Amphophilic/Vacuolar Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/38.56	0/37.00	2/40.41	2/38.54
POLY-3 PERCENT (g)	0%	0%	5%	5.2%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	413	434

STATISTICAL TESTS

POLY 3	P=0.125	(e)	P=0.247	P=0.236
POLY 1.5	P=0.125	(e)	P=0.243	P=0.238
POLY 6	P=0.126	(e)	P=0.256	P=0.235
RAO-SCOTT	P=0.313	(e)	P=0.499	P=0.482
LITTER C-A/FISHERS	P=0.302	(e)	P=0.500	P=0.500

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Kidney: Renal Tubule Amphophilic/Vacuolar Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/38.56	0/37.00	2/40.41	1/37.75
POLY-3 PERCENT (g)	0%	0%	5%	2.7%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	413	564
STATISTICAL TESTS				
POLY 3	P=0.348	(e)	P=0.247	P=0.496
POLY 1.5	P=0.351	(e)	P=0.243	P=0.498
POLY 6	P=0.348	(e)	P=0.256	P=0.494
RAO-SCOTT	P=0.476	(e)	P=0.446	P=0.663
LITTER C-A/FISHERS	P=0.302	(e)	P=0.500	P=0.500

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
<hr/>				
Liver				
Hepatocellular Adenoma				
<hr/>				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/38.56	1/37.00	0/38.80	2/37.57
POLY-3 PERCENT (g)	0%	2.7%	0%	5.3%
TERMINAL (d)	0/15 (0%)	1/15 (7%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	730 (T)	---	650
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.147	P=0.492	(e)	P=0.231
POLY 1.5	P=0.149	P=0.496	(e)	P=0.234
POLY 6	P=0.144	P=0.488	(e)	P=0.227
RAO-SCOTT	P=0.206	P=0.529	(e)	P=0.295
LITTER C-A/FISHERS	P=0.149	P=0.500	(e)	P=0.245

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	1/37.00	0/38.80	0/37.21
POLY-3 PERCENT (g)	0%	2.7%	0%	0%
TERMINAL (d)	0/15 (0%)	1/15 (7%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	1/37.00	0/38.80	0/37.21
POLY-3 PERCENT (g)	0%	2.7%	0%	0%
TERMINAL (d)	0/15 (0%)	1/15 (7%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/38.84	1/37.21	2/38.80	1/37.21
POLY-3 PERCENT (g)	7.7%	2.7%	5.2%	2.7%
TERMINAL (d)	2/15 (13%)	0/15 (0%)	2/21 (10%)	1/16 (6%)
FIRST INCIDENCE	654	676	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.348N	P=0.320N	P=0.500N	P=0.319N
POLY 1.5	P=0.345N	P=0.313N	P=0.500N	P=0.311N
POLY 6	P=0.353N	P=0.326N	P=0.493N	P=0.329N
RAO-SCOTT	P=0.349N	P=0.314N	P=0.485N	P=0.314N
LITTER C-A/FISHERS	P=0.341N	P=0.305N	P=0.500N	P=0.305N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/38.84	1/37.21	2/38.80	1/37.21
POLY-3 PERCENT (g)	7.7%	2.7%	5.2%	2.7%
TERMINAL (d)	2/15 (13%)	0/15 (0%)	2/21 (10%)	1/16 (6%)
FIRST INCIDENCE	654	676	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.348N	P=0.320N	P=0.500N	P=0.319N
POLY 1.5	P=0.345N	P=0.313N	P=0.500N	P=0.311N
POLY 6	P=0.353N	P=0.326N	P=0.493N	P=0.329N
RAO-SCOTT	P=0.349N	P=0.314N	P=0.485N	P=0.314N
LITTER C-A/FISHERS	P=0.341N	P=0.305N	P=0.500N	P=0.305N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Mammary Gland Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	2/25 (8%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/38.84	2/37.21	2/38.80	1/37.21
POLY-3 PERCENT (g)	7.7%	5.4%	5.2%	2.7%
TERMINAL (d)	2/15 (13%)	1/15 (7%)	2/21 (10%)	1/16 (6%)
FIRST INCIDENCE	654	676	730 (T)	730 (T)
STATISTICAL TESTS				
POLY 3	P=0.275N	P=0.520N	P=0.500N	P=0.319N
POLY 1.5	P=0.271N	P=0.510N	P=0.500N	P=0.311N
POLY 6	P=0.281N	P=0.530N	P=0.493N	P=0.329N
RAO-SCOTT	P=0.268N	P=0.490N	P=0.475N	P=0.299N
LITTER C-A/FISHERS	P=0.264N	P=0.500N	P=0.500N	P=0.305N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Pancreas Adenoma				
TUMOR RATES				
OVERALL (a)	6/50 (12%)	5/50 (10%)	6/50 (12%)	4/50 (8%)
LITTERS (b)	6/25 (24%)	5/25 (20%)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	6/39.60	5/37.40	6/39.20	4/37.23
POLY-3 PERCENT (g)	15.2%	13.4%	15.3%	10.7%
TERMINAL (d)	2/15 (13%)	3/15 (20%)	5/21 (24%)	3/16 (19%)
FIRST INCIDENCE	618	676	618	725
STATISTICAL TESTS				
POLY 3	P=0.366N	P=0.541N	P=0.616	P=0.407N
POLY 1.5	P=0.351N	P=0.521N	P=0.619	P=0.386N
POLY 6	P=0.389N	P=0.566N	P=0.622	P=0.437N
RAO-SCOTT	P=0.365N	P=0.525N	P=0.598	P=0.400N
LITTER C-A/FISHERS	P=0.196N	P=0.500N	P=0.500N	P=0.232N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Pancreas				
Carcinoma or Adenoma				
<hr/>				
TUMOR RATES				
OVERALL (a)	7/50 (14%)	5/50 (10%)	6/50 (12%)	4/50 (8%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	7/39.68	5/37.40	6/39.20	4/37.23
POLY-3 PERCENT (g)	17.6%	13.4%	15.3%	10.7%
TERMINAL (d)	2/15 (13%)	3/15 (20%)	5/21 (24%)	3/16 (19%)
FIRST INCIDENCE	618	676	618	725
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.291N	P=0.419N	P=0.510N	P=0.294N
POLY 1.5	P=0.279N	P=0.399N	P=0.504N	P=0.276N
POLY 6	P=0.311N	P=0.445N	P=0.507N	P=0.323N
RAO-SCOTT	P=0.296N	P=0.410N	P=0.497N	P=0.294N
LITTER C-A/FISHERS	P=0.142N	P=0.371N	P=0.371N	P=0.145N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	12/50 (24%)	7/50 (14%)	12/50 (24%)	6/50 (12%)
LITTERS (b)	9/25 (36%)	5/25 (20%)	10/25 (40%)	6/25 (24%)
POLY-3 RATE (c)	12/40.22	7/38.21	12/40.79	6/38.81
POLY-3 PERCENT (g)	29.8%	18.3%	29.4%	15.5%
TERMINAL (d)	6/15 (40%)	1/15 (7%)	5/21 (24%)	2/16 (13%)
FIRST INCIDENCE	481	553	402	434
STATISTICAL TESTS				
POLY 3	P=0.144N	P=0.173N	P=0.581N	P=0.100N
POLY 1.5	P=0.143N	P=0.163N	P=0.584N	P=0.095N
POLY 6	P=0.147N	P=0.182N	P=0.561N	P=0.104N
RAO-SCOTT	P=0.178N	P=0.203N	P=0.573N	P=0.131N
LITTER C-A/FISHERS	P=0.372N	P=0.173N	P=0.500	P=0.269N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	4/25 (16%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	1/38.56	4/37.79	3/39.33	3/37.91
POLY-3 PERCENT (g)	2.6%	10.6%	7.6%	7.9%
TERMINAL (d)	1/15 (7%)	1/15 (7%)	1/21 (5%)	1/16 (6%)
FIRST INCIDENCE	730 (T)	618	621	598
STATISTICAL TESTS				
POLY 3	P=0.451	P=0.170	P=0.311	P=0.298
POLY 1.5	P=0.458	P=0.174	P=0.309	P=0.303
POLY 6	P=0.448	P=0.168	P=0.324	P=0.295
RAO-SCOTT	P=0.439	P=0.164	P=0.293	P=0.278
LITTER C-A/FISHERS	P=0.459	P=0.174	P=0.305	P=0.305

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	4/50 (8%)	5/50 (10%)
LITTERS (b)	4/25 (16%)	1/25 (4%)	4/25 (16%)	5/25 (20%)
POLY-3 RATE (c)	4/39.17	1/37.21	4/39.26	5/37.56
POLY-3 PERCENT (g)	10.2%	2.7%	10.2%	13.3%
TERMINAL (d)	2/15 (13%)	0/15 (0%)	2/21 (10%)	4/16 (25%)
FIRST INCIDENCE	577	676	604	632
STATISTICAL TESTS				
POLY 3	P=0.211	P=0.192N	P=0.644N	P=0.473
POLY 1.5	P=0.217	P=0.186N	P=0.643N	P=0.488
POLY 6	P=0.204	P=0.199N	P=0.634N	P=0.457
RAO-SCOTT	P=0.202	P=0.180N	P=0.618N	P=0.450
LITTER C-A/FISHERS	P=0.212	P=0.174N	P=0.649	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	3/50 (6%)	4/50 (8%)	6/50 (12%)
LITTERS (b)	6/25 (24%)	3/25 (12%)	4/25 (16%)	6/25 (24%)
POLY-3 RATE (c)	6/40.47	3/38.55	4/39.26	6/38.34
POLY-3 PERCENT (g)	14.8%	7.8%	10.2%	15.7%
TERMINAL (d)	2/15 (13%)	0/15 (0%)	2/21 (10%)	4/16 (25%)
FIRST INCIDENCE	155	274	604	441
STATISTICAL TESTS				
POLY 3	P=0.360	P=0.263N	P=0.387N	P=0.584
POLY 1.5	P=0.370	P=0.255N	P=0.383N	P=0.600
POLY 6	P=0.348	P=0.273N	P=0.380N	P=0.565
RAO-SCOTT	P=0.339	P=0.245N	P=0.365N	P=0.559
LITTER C-A/FISHERS	P=0.374	P=0.232N	P=0.363N	P=0.629

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	3/50 (6%)	4/50 (8%)	6/50 (12%)
LITTERS (b)	6/25 (24%)	3/25 (12%)	4/25 (16%)	6/25 (24%)
POLY-3 RATE (c)	6/40.47	3/38.55	4/39.26	6/38.34
POLY-3 PERCENT (g)	14.8%	7.8%	10.2%	15.7%
TERMINAL (d)	2/15 (13%)	0/15 (0%)	2/21 (10%)	4/16 (25%)
FIRST INCIDENCE	155	274	604	441
STATISTICAL TESTS				
POLY 3	P=0.360	P=0.263N	P=0.387N	P=0.584
POLY 1.5	P=0.370	P=0.255N	P=0.383N	P=0.600
POLY 6	P=0.348	P=0.273N	P=0.380N	P=0.565
RAO-SCOTT	P=0.339	P=0.245N	P=0.365N	P=0.559
LITTER C-A/FISHERS	P=0.374	P=0.232N	P=0.363N	P=0.629

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	2/39.86	2/38.34	0/38.80	1/37.99
POLY-3 PERCENT (g)	5%	5.2%	0%	2.6%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	155	274	---	441
STATISTICAL TESTS				
POLY 3	P=0.388N	P=0.681	P=0.243N	P=0.517N
POLY 1.5	P=0.386N	P=0.686	P=0.242N	P=0.510N
POLY 6	P=0.392N	P=0.676	P=0.239N	P=0.525N
RAO-SCOTT	P=0.403N	P=0.663	P=0.274N	P=0.517N
LITTER C-A/FISHERS	P=0.381N	P=0.695	P=0.245N	P=0.500N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

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Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	2/50 (4%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	4/25 (16%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	1/38.56	4/37.79	2/39.19	3/37.91
POLY-3 PERCENT (g)	2.6%	10.6%	5.1%	7.9%
TERMINAL (d)	1/15 (7%)	1/15 (7%)	1/21 (5%)	1/16 (6%)
FIRST INCIDENCE	730 (T)	618	621	598
STATISTICAL TESTS				
POLY 3	P=0.442	P=0.170	P=0.506	P=0.298
POLY 1.5	P=0.447	P=0.174	P=0.503	P=0.303
POLY 6	P=0.438	P=0.168	P=0.517	P=0.295
RAO-SCOTT	P=0.434	P=0.173	P=0.481	P=0.289
LITTER C-A/FISHERS	P=0.449	P=0.174	P=0.500	P=0.305

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin				
Lipoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/38.56	1/37.00	0/38.80	0/37.21
POLY-3 PERCENT (g)	5.2%	2.7%	0%	0%
TERMINAL (d)	2/15 (13%)	1/15 (7%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.168N	P=0.514N	P=0.235N	P=0.244N
POLY 1.5	P=0.168N	P=0.507N	P=0.236N	P=0.240N
POLY 6	P=0.168N	P=0.522N	P=0.229N	P=0.248N
RAO-SCOTT	P=0.227N	P=0.533N	P=0.303N	P=0.306N
LITTER C-A/FISHERS	P=0.167N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	4/25 (16%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	1/38.56	4/37.79	3/39.33	3/37.91
POLY-3 PERCENT (g)	2.6%	10.6%	7.6%	7.9%
TERMINAL (d)	1/15 (7%)	1/15 (7%)	1/21 (5%)	1/16 (6%)
FIRST INCIDENCE	730 (T)	618	621	598
STATISTICAL TESTS				
POLY 3	P=0.451	P=0.170	P=0.311	P=0.298
POLY 1.5	P=0.458	P=0.174	P=0.309	P=0.303
POLY 6	P=0.448	P=0.168	P=0.324	P=0.295
RAO-SCOTT	P=0.439	P=0.164	P=0.293	P=0.278
LITTER C-A/FISHERS	P=0.459	P=0.174	P=0.305	P=0.305

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	4/25 (16%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	1/38.56	4/37.79	3/39.33	3/37.91
POLY-3 PERCENT (g)	2.6%	10.6%	7.6%	7.9%
TERMINAL (d)	1/15 (7%)	1/15 (7%)	1/21 (5%)	1/16 (6%)
FIRST INCIDENCE	730 (T)	618	621	598
STATISTICAL TESTS				
POLY 3	P=0.451	P=0.170	P=0.311	P=0.298
POLY 1.5	P=0.458	P=0.174	P=0.309	P=0.303
POLY 6	P=0.448	P=0.168	P=0.324	P=0.295
RAO-SCOTT	P=0.439	P=0.164	P=0.293	P=0.278
LITTER C-A/FISHERS	P=0.459	P=0.174	P=0.305	P=0.305

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	11/50 (22%)	6/50 (12%)	9/50 (18%)	7/50 (14%)
LITTERS (b)	10/25 (40%)	6/25 (24%)	9/25 (36%)	7/25 (28%)
POLY-3 RATE (c)	11/39.55	6/38.80	9/38.97	7/37.91
POLY-3 PERCENT (g)	27.8%	15.5%	23.1%	18.5%
TERMINAL (d)	6/15 (40%)	1/15 (7%)	7/21 (33%)	3/16 (19%)
FIRST INCIDENCE	646	560	694	633
STATISTICAL TESTS				
POLY 3	P=0.355N	P=0.142N	P=0.411N	P=0.237N
POLY 1.5	P=0.340N	P=0.142N	P=0.405N	P=0.224N
POLY 6	P=0.375N	P=0.138N	P=0.406N	P=0.251N
RAO-SCOTT	P=0.349N	P=0.140N	P=0.396N	P=0.229N
LITTER C-A/FISHERS	P=0.385N	P=0.182N	P=0.500N	P=0.276N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male

Thyroid Gland: C-Cell
Carcinoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/38.56	0/37.00	0/38.80	1/37.21
POLY-3 PERCENT (g)	2.6%	0%	0%	2.7%
TERMINAL (d)	1/15 (7%)	0/15 (0%)	0/21 (0%)	1/16 (6%)
FIRST INCIDENCE	730 (T)	---	---	730 (T)

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	11/50 (22%)	6/50 (12%)	9/50 (18%)	8/50 (16%)
LITTERS (b)	10/25 (40%)	6/25 (24%)	9/25 (36%)	8/25 (32%)
POLY-3 RATE (c)	11/39.55	6/38.80	9/38.97	8/37.91
POLY-3 PERCENT (g)	27.8%	15.5%	23.1%	21.1%
TERMINAL (d)	6/15 (40%)	1/15 (7%)	7/21 (33%)	4/16 (25%)
FIRST INCIDENCE	646	560	694	633
STATISTICAL TESTS				
POLY 3	P=0.483N	P=0.142N	P=0.411N	P=0.334N
POLY 1.5	P=0.465N	P=0.142N	P=0.405N	P=0.317N
POLY 6	P=0.508N	P=0.138N	P=0.406N	P=0.355N
RAO-SCOTT	P=0.473N	P=0.139N	P=0.395N	P=0.320N
LITTER C-A/FISHERS	P=0.524N	P=0.182N	P=0.500N	P=0.384N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
Zymbal's Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/39.17	1/37.00	1/39.59	0/37.21
POLY-3 PERCENT (g)	5.1%	2.7%	2.5%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	618	729	435	---
STATISTICAL TESTS				
POLY 3	P=0.197N	P=0.520N	P=0.496N	P=0.248N
POLY 1.5	P=0.195N	P=0.510N	P=0.497N	P=0.242N
POLY 6	P=0.199N	P=0.532N	P=0.490N	P=0.256N
RAO-SCOTT	P=0.213N	P=0.505N	P=0.491N	P=0.258N
LITTER C-A/FISHERS	P=0.191N	P=0.500N	P=0.500N	P=0.245N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/38.56	0/37.00	1/38.97	1/37.53
POLY-3 PERCENT (g)	0%	0%	2.6%	2.7%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	688	643
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Hemangiosarcoma or Hemangioma				
<hr/>				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/38.56	1/37.24	1/38.97	1/37.53
POLY-3 PERCENT (g)	0%	2.7%	2.6%	2.7%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	666	688	643
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	2/37.91	0/38.80	0/37.21
POLY-3 PERCENT (g)	0%	5.3%	0%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	575	---	---
STATISTICAL TESTS				
POLY 3	P=0.376N	P=0.232	(e)	(e)
POLY 1.5	P=0.372N	P=0.235	(e)	(e)
POLY 6	P=0.378N	P=0.232	(e)	(e)
RAO-SCOTT	P=0.451N	P=0.346	(e)	(e)
LITTER C-A/FISHERS	P=0.368N	P=0.245	(e)	(e)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Malignant Schwannoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	0/38.56	0/37.00	3/39.70	0/37.21
POLY-3 PERCENT (g)	0%	0%	7.6%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	0/21 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	589	---
STATISTICAL TESTS				
POLY 3	P=0.660N	(e)	P=0.123	(e)
POLY 1.5	P=0.655N	(e)	P=0.121	(e)
POLY 6	P=0.667N	(e)	P=0.130	(e)
RAO-SCOTT	P=0.657N	(e)	P=0.223	(e)
LITTER C-A/FISHERS	P=0.651N	(e)	P=0.117	(e)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/39.12	0/37.00	1/38.80	0/37.21
POLY-3 PERCENT (g)	5.1%	0%	2.6%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	1/21 (5%)	0/16 (0%)
FIRST INCIDENCE	562	---	730 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.268N	P=0.249N	P=0.503N	P=0.248N
POLY 1.5	P=0.269N	P=0.243N	P=0.501N	P=0.242N
POLY 6	P=0.267N	P=0.256N	P=0.498N	P=0.254N
RAO-SCOTT	P=0.324N	P=0.309N	P=0.529N	P=0.309N
LITTER C-A/FISHERS	P=0.270N	P=0.245N	P=0.500N	P=0.245N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/39.12	0/37.00	1/38.80	0/37.21
POLY-3 PERCENT (g)	5.1%	0%	2.6%	0%
TERMINAL (d)	0/15 (0%)	0/15 (0%)	1/21 (5%)	0/16 (0%)
FIRST INCIDENCE	562	---	730 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.268N	P=0.249N	P=0.503N	P=0.248N
POLY 1.5	P=0.269N	P=0.243N	P=0.501N	P=0.242N
POLY 6	P=0.267N	P=0.256N	P=0.498N	P=0.254N
RAO-SCOTT	P=0.324N	P=0.309N	P=0.529N	P=0.309N
LITTER C-A/FISHERS	P=0.270N	P=0.245N	P=0.500N	P=0.245N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	30/50 (60%)	30/50 (60%)	30/50 (60%)	30/50 (60%)
LITTERS (b)	22/25 (88%)	22/25 (88%)	20/25 (80%)	22/25 (88%)
POLY-3 RATE (c)	30/43.33	30/42.37	30/42.96	30/42.99
POLY-3 PERCENT (g)	69.2%	70.8%	69.8%	69.8%
TERMINAL (d)	13/15 (87%)	10/15 (67%)	17/21 (81%)	12/16 (75%)
FIRST INCIDENCE	481	553	402	434
STATISTICAL TESTS				
POLY 3	P=0.556N	P=0.533	P=0.575	P=0.577
POLY 1.5	P=0.539N	P=0.557	P=0.588	P=0.591N
POLY 6	P=0.559	P=0.531	P=0.577	P=0.571
RAO-SCOTT	P=0.544N	P=0.517	P=0.556	P=0.558
LITTER C-A/FISHERS	P=0.583	P=0.666	P=0.351N	P=0.666

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	10/50 (20%)	9/50 (18%)	9/50 (18%)	8/50 (16%)
LITTERS (b)	9/25 (36%)	8/25 (32%)	8/25 (32%)	8/25 (32%)
POLY-3 RATE (c)	10/41.29	9/39.72	9/42.16	8/40.04
POLY-3 PERCENT (g)	24.2%	22.7%	21.4%	20%
TERMINAL (d)	2/15 (13%)	2/15 (13%)	1/21 (5%)	1/16 (6%)
FIRST INCIDENCE	155	274	413	441
STATISTICAL TESTS				
POLY 3	P=0.389N	P=0.539N	P=0.479N	P=0.423N
POLY 1.5	P=0.384N	P=0.522N	P=0.491N	P=0.413N
POLY 6	P=0.392N	P=0.556N	P=0.450N	P=0.431N
RAO-SCOTT	P=0.384N	P=0.523N	P=0.468N	P=0.412N
LITTER C-A/FISHERS	P=0.495N	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 mg/kg male	75 mg/kg male	250 mg/kg male	750 mg/kg male
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	33/50 (66%)	34/50 (68%)	36/50 (72%)	35/50 (70%)
LITTERS (b)	22/25 (88%)	24/25 (96%)	23/25 (92%)	24/25 (96%)
POLY-3 RATE (c)	33/44.72	34/44.50	36/45.47	35/45.05
POLY-3 PERCENT (g)	73.8%	76.4%	79.2%	77.7%
TERMINAL (d)	13/15 (87%)	10/15 (67%)	18/21 (86%)	12/16 (75%)
FIRST INCIDENCE	155	274	402	434
STATISTICAL TESTS				
POLY 3	P=0.418	P=0.483	P=0.349	P=0.421
POLY 1.5	P=0.410	P=0.482	P=0.340	P=0.413
POLY 6	P=0.443	P=0.525	P=0.379	P=0.460
RAO-SCOTT	P=0.421	P=0.476	P=0.356	P=0.421
LITTER C-A/FISHERS	P=0.341	P=0.305	P=0.500	P=0.305

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.83	1/39.58	0/42.83	0/34.39
POLY-3 PERCENT (g)	4.8%	2.5%	0%	0%
TERMINAL (d)	2/28 (7%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	615	---	---
STATISTICAL TESTS				
POLY 3	P=0.179N	P=0.519N	P=0.232N	P=0.283N
POLY 1.5	P=0.177N	P=0.514N	P=0.234N	P=0.268N
POLY 6	P=0.179N	P=0.522N	P=0.229N	P=0.303N
RAO-SCOTT	P=0.239N	P=0.552N	P=0.320N	P=0.341N
LITTER C-A/FISHERS	P=0.167N	P=0.500N	P=0.245N	P=0.245N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
Time Report Requested: 15:59:32
First Dose M/F: 07/03/12 / 07/02/12
Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	2/50 (4%)	1/48 (2%)
LITTERS (b)	3/25 (12%)	4/25 (16%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/42.03	4/39.18	2/42.83	1/34.39
POLY-3 PERCENT (g)	7.1%	10.2%	4.7%	2.9%
TERMINAL (d)	2/28 (7%)	4/24 (17%)	2/29 (7%)	1/20 (5%)
FIRST INCIDENCE	677	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.215N	P=0.461	P=0.491N	P=0.380N
POLY 1.5	P=0.199N	P=0.473	P=0.495N	P=0.356N
POLY 6	P=0.238N	P=0.449	P=0.488N	P=0.413N
RAO-SCOTT	P=0.212N	P=0.454	P=0.488N	P=0.365N
LITTER C-A/FISHERS	P=0.156N	P=0.500	P=0.500N	P=0.305N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	2/50 (4%)	1/48 (2%)
LITTERS (b)	3/25 (12%)	4/25 (16%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/42.03	4/39.18	2/42.83	1/34.39
POLY-3 PERCENT (g)	7.1%	10.2%	4.7%	2.9%
TERMINAL (d)	2/28 (7%)	4/24 (17%)	2/29 (7%)	1/20 (5%)
FIRST INCIDENCE	677	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.215N	P=0.461	P=0.491N	P=0.380N
POLY 1.5	P=0.199N	P=0.473	P=0.495N	P=0.356N
POLY 6	P=0.238N	P=0.449	P=0.488N	P=0.413N
RAO-SCOTT	P=0.212N	P=0.454	P=0.488N	P=0.365N
LITTER C-A/FISHERS	P=0.156N	P=0.500	P=0.500N	P=0.305N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Brain				
Granular Cell Tumor Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Clitoral/Preputial Gland Squamous Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	1/49 (2%)	0/48 (0%)	0/49 (0%)	2/49 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	1/41.30	0/38.41	0/41.84	2/35.55
POLY-3 PERCENT (g)	2.4%	0%	0%	5.6%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	1/20 (5%)
FIRST INCIDENCE	719	---	---	661
STATISTICAL TESTS				
POLY 3	P=0.174	P=0.514N	P=0.497N	P=0.448
POLY 1.5	P=0.181	P=0.512N	P=0.499N	P=0.467
POLY 6	P=0.167	P=0.517N	P=0.497N	P=0.422
RAO-SCOTT	P=0.223	P=0.594N	P=0.594N	P=0.493
LITTER C-A/FISHERS	P=0.187	P=0.500N	P=0.500N	P=0.500

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Intestine Small: Jejunum Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Intestine Small: Site Unspecified Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/49 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	1/41.83	1/39.18	2/42.83	0/35.52
POLY-3 PERCENT (g)	2.4%	2.6%	4.7%	0%
TERMINAL (d)	1/28 (4%)	1/24 (4%)	2/29 (7%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.380N	P=0.746	P=0.508	P=0.532N
POLY 1.5	P=0.363N	P=0.750	P=0.504	P=0.522N
POLY 6	P=0.403N	P=0.743	P=0.513	P=0.547N
RAO-SCOTT	P=0.363N	P=0.725	P=0.514	P=0.508N
LITTER C-A/FISHERS	P=0.331N	P=0.755	P=0.500	P=0.500N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/49 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	1/41.83	1/39.18	2/42.83	0/35.52
POLY-3 PERCENT (g)	2.4%	2.6%	4.7%	0%
TERMINAL (d)	1/28 (4%)	1/24 (4%)	2/29 (7%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.380N	P=0.746	P=0.508	P=0.532N
POLY 1.5	P=0.363N	P=0.750	P=0.504	P=0.522N
POLY 6	P=0.403N	P=0.743	P=0.513	P=0.547N
RAO-SCOTT	P=0.363N	P=0.725	P=0.514	P=0.508N
LITTER C-A/FISHERS	P=0.331N	P=0.755	P=0.500	P=0.500N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
Time Report Requested: 15:59:32
First Dose M/F: 07/03/12 / 07/02/12
Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Kidney: Renal Tubule Amphophilic/Vacuolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/49 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	1/39.52	1/43.43	1/35.39
POLY-3 PERCENT (g)	0%	2.5%	2.3%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	634	538	578
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female

**Kidney: Renal Tubule
Amphophilic/Vacuolar Carcinoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/49 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	2/39.59	1/43.43	1/35.39
POLY-3 PERCENT (g)	0%	5.1%	2.3%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	634	538	578

STATISTICAL TESTS

POLY 3	P=0.555	P=0.225	P=0.507	P=0.467
POLY 1.5	P=0.577	P=0.228	P=0.504	P=0.478
POLY 6	P=0.526	P=0.223	P=0.511	P=0.452
RAO-SCOTT	P=0.597	P=0.377	P=0.662	P=0.592
LITTER C-A/FISHERS	P=0.485	P=0.500	P=0.500	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
<hr/>				
Liver				
Hepatocellular Adenoma				
<hr/>				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/48 (2%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	2/41.83	2/39.39	1/42.83	1/34.57
POLY-3 PERCENT (g)	4.8%	5.1%	2.3%	2.9%
TERMINAL (d)	2/28 (7%)	0/24 (0%)	1/29 (3%)	1/20 (5%)
FIRST INCIDENCE	729 (T)	691	729 (T)	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.432N	P=0.673	P=0.492N	P=0.566N
POLY 1.5	P=0.419N	P=0.678	P=0.496N	P=0.546N
POLY 6	P=0.450N	P=0.669	P=0.487N	P=0.594N
RAO-SCOTT	P=0.422N	P=0.651	P=0.486N	P=0.537N
LITTER C-A/FISHERS	P=0.380N	P=0.695	P=0.500N	P=0.500N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	2/25 (8%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	3/42.61	2/39.45	1/42.83	3/36.88
POLY-3 PERCENT (g)	7%	5.1%	2.3%	8.1%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	1/29 (3%)	0/20 (0%)
FIRST INCIDENCE	578	675	729 (T)	586
STATISTICAL TESTS				
POLY 3	P=0.465	P=0.535N	P=0.303N	P=0.594
POLY 1.5	P=0.482	P=0.524N	P=0.304N	P=0.620
POLY 6	P=0.442	P=0.546N	P=0.303N	P=0.559
RAO-SCOTT	P=0.462	P=0.552N	P=0.362N	P=0.595
LITTER C-A/FISHERS	P=0.500N	P=0.500N	P=0.305N	P=0.500N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	2/50 (4%)	3/50 (6%)
LITTERS (b)	4/25 (16%)	2/25 (8%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	4/42.70	2/39.45	2/42.83	3/36.88
POLY-3 PERCENT (g)	9.4%	5.1%	4.7%	8.1%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	2/29 (7%)	0/20 (0%)
FIRST INCIDENCE	578	675	729 (T)	586
STATISTICAL TESTS				
POLY 3	P=0.578	P=0.374N	P=0.335N	P=0.580N
POLY 1.5	P=0.598	P=0.362N	P=0.336N	P=0.550N
POLY 6	P=0.551	P=0.385N	P=0.336N	P=0.619N
RAO-SCOTT	P=0.557	P=0.399N	P=0.371N	P=0.575N
LITTER C-A/FISHERS	P=0.372N	P=0.334N	P=0.334N	P=0.334N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	29/50 (58%)	31/50 (62%)	22/50 (44%)	13/50 (26%)
LITTERS (b)	18/25 (72%)	23/25 (92%)	17/25 (68%)	12/25 (48%)
POLY-3 RATE (c)	29/48.20	31/45.79	22/45.99	13/38.33
POLY-3 PERCENT (g)	60.2%	67.7%	47.8%	33.9%
TERMINAL (d)	13/28 (46%)	16/24 (67%)	13/29 (45%)	6/20 (30%)
FIRST INCIDENCE	499	386	360	571
STATISTICAL TESTS				
POLY 3	P=0.002N**	P=0.289	P=0.156N	P=0.011N*
POLY 1.5	P<0.001N**	P=0.330	P=0.135N	P=0.004N**
POLY 6	P=0.006N**	P=0.250	P=0.197N	P=0.034N*
RAO-SCOTT	P=0.002N**	P=0.302	P=0.172N	P=0.016N*
LITTER C-A/FISHERS	P=0.004N**	P=0.069	P=0.500N	P=0.074N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	29/50 (58%)	31/50 (62%)	23/50 (46%)	13/50 (26%)
LITTERS (b)	18/25 (72%)	23/25 (92%)	18/25 (72%)	12/25 (48%)
POLY-3 RATE (c)	29/48.20	31/45.79	23/45.99	13/38.33
POLY-3 PERCENT (g)	60.2%	67.7%	50%	33.9%
TERMINAL (d)	13/28 (46%)	16/24 (67%)	14/29 (48%)	6/20 (30%)
FIRST INCIDENCE	499	386	360	571
STATISTICAL TESTS				
POLY 3	P=0.002N**	P=0.289	P=0.213N	P=0.011N*
POLY 1.5	P<0.001N**	P=0.330	P=0.185N	P=0.004N**
POLY 6	P=0.007N**	P=0.250	P=0.265N	P=0.034N*
RAO-SCOTT	P=0.002N**	P=0.301	P=0.226N	P=0.016N*
LITTER C-A/FISHERS	P=0.003N**	P=0.069	P=0.623	P=0.074N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Mammary Gland Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	30/50 (60%)	32/50 (64%)	23/50 (46%)	15/50 (30%)
LITTERS (b)	19/25 (76%)	23/25 (92%)	18/25 (72%)	12/25 (48%)
POLY-3 RATE (c)	30/48.48	32/45.99	23/45.99	15/38.92
POLY-3 PERCENT (g)	61.9%	69.6%	50%	38.5%
TERMINAL (d)	13/28 (46%)	16/24 (67%)	14/29 (48%)	6/20 (30%)
FIRST INCIDENCE	499	386	360	571
STATISTICAL TESTS				
POLY 3	P=0.004N**	P=0.281	P=0.165N	P=0.021N*
POLY 1.5	P<0.001N**	P=0.324	P=0.139N	P=0.009N**
POLY 6	P=0.013N*	P=0.240	P=0.218N	P=0.060N
RAO-SCOTT	P=0.006N**	P=0.297	P=0.184N	P=0.031N*
LITTER C-A/FISHERS	P=0.002N**	P=0.123	P=0.500N	P=0.040N*

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Pancreas				
Adenoma				
<hr/>				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	1/35.52
POLY-3 PERCENT (g)	0%	0%	0%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	1/20 (5%)
FIRST INCIDENCE	---	---	---	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Pancreas				
Carcinoma or Adenoma				
<hr/>				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	1/35.52
POLY-3 PERCENT (g)	0%	0%	0%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	1/20 (5%)
FIRST INCIDENCE	---	---	---	729 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	20/50 (40%)	18/50 (36%)	20/50 (40%)	11/50 (22%)
LITTERS (b)	15/25 (60%)	13/25 (52%)	15/25 (60%)	10/25 (40%)
POLY-3 RATE (c)	20/44.95	18/42.92	20/46.11	11/37.22
POLY-3 PERCENT (g)	44.5%	41.9%	43.4%	29.6%
TERMINAL (d)	11/28 (39%)	7/24 (29%)	9/29 (31%)	7/20 (35%)
FIRST INCIDENCE	499	332	538	551
STATISTICAL TESTS				
POLY 3	P=0.103N	P=0.490N	P=0.542N	P=0.118N
POLY 1.5	P=0.065N	P=0.472N	P=0.564N	P=0.079N
POLY 6	P=0.177N	P=0.491N	P=0.505N	P=0.190N
RAO-SCOTT	P=0.112N	P=0.494N	P=0.544N	P=0.141N
LITTER C-A/FISHERS	P=0.113N	P=0.388N	P=0.613	P=0.129N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	1/39.18	0/42.83	1/36.18
POLY-3 PERCENT (g)	0%	2.6%	0%	2.8%
TERMINAL (d)	0/28 (0%)	1/24 (4%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	729 (T)	---	637
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	2/40.12	0/42.83	1/36.19
POLY-3 PERCENT (g)	0%	5%	0%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	302	---	635
STATISTICAL TESTS				
POLY 3	P=0.580	P=0.227	(e)	P=0.471
POLY 1.5	P=0.595	P=0.231	(e)	P=0.482
POLY 6	P=0.561	P=0.225	(e)	P=0.457
RAO-SCOTT	P=0.588	P=0.319	(e)	P=0.530
LITTER C-A/FISHERS	P=0.623	P=0.245	(e)	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	2/40.12	0/42.83	1/36.19
POLY-3 PERCENT (g)	0%	5%	0%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	302	---	635
STATISTICAL TESTS				
POLY 3	P=0.580	P=0.227	(e)	P=0.471
POLY 1.5	P=0.595	P=0.231	(e)	P=0.482
POLY 6	P=0.561	P=0.225	(e)	P=0.457
RAO-SCOTT	P=0.588	P=0.319	(e)	P=0.530
LITTER C-A/FISHERS	P=0.623	P=0.245	(e)	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	2/40.12	0/42.83	1/36.19
POLY-3 PERCENT (g)	0%	5%	0%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	302	---	635
STATISTICAL TESTS				
POLY 3	P=0.580	P=0.227	(e)	P=0.471
POLY 1.5	P=0.595	P=0.231	(e)	P=0.482
POLY 6	P=0.561	P=0.225	(e)	P=0.457
RAO-SCOTT	P=0.588	P=0.319	(e)	P=0.530
LITTER C-A/FISHERS	P=0.623	P=0.245	(e)	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	1/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	2.6%	0%	0%
TERMINAL (d)	0/28 (0%)	1/24 (4%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Lipoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	1/39.18	0/42.83	1/36.18
POLY-3 PERCENT (g)	0%	2.6%	0%	2.8%
TERMINAL (d)	0/28 (0%)	1/24 (4%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	729 (T)	---	637
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	1/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	2.6%	0%	0%
TERMINAL (d)	0/28 (0%)	1/24 (4%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	11/49 (22%)	10/50 (20%)	10/49 (20%)
LITTERS (b)	8/25 (32%)	10/25 (40%)	9/25 (36%)	9/25 (36%)
POLY-3 RATE (c)	9/42.15	11/39.39	10/43.77	10/37.94
POLY-3 PERCENT (g)	21.4%	27.9%	22.9%	26.4%
TERMINAL (d)	7/28 (25%)	6/23 (26%)	7/29 (24%)	5/20 (25%)
FIRST INCIDENCE	655	629	538	548
STATISTICAL TESTS				
POLY 3	P=0.447	P=0.332	P=0.537	P=0.396
POLY 1.5	P=0.475	P=0.344	P=0.520	P=0.424
POLY 6	P=0.406	P=0.330	P=0.557	P=0.360
RAO-SCOTT	P=0.438	P=0.322	P=0.525	P=0.381
LITTER C-A/FISHERS	P=0.550	P=0.384	P=0.500	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female

Thyroid Gland: C-Cell
Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	2/38.59	0/42.83	0/35.52
POLY-3 PERCENT (g)	0%	5.2%	0%	0%
TERMINAL (d)	0/28 (0%)	0/23 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	634	---	---

STATISTICAL TESTS

POLY 3	P=0.397N	P=0.219	(e)	(e)
POLY 1.5	P=0.389N	P=0.223	(e)	(e)
POLY 6	P=0.404N	P=0.216	(e)	(e)
RAO-SCOTT	P=0.588N	P=0.531	(e)	(e)
LITTER C-A/FISHERS	P=0.577N	P=0.500	(e)	(e)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female

Thyroid Gland: C-Cell
Carcinoma or Adenoma

TUMOR RATES				
OVERALL (a)	9/50 (18%)	12/49 (24%)	10/50 (20%)	10/49 (20%)
LITTERS (b)	8/25 (32%)	10/25 (40%)	9/25 (36%)	9/25 (36%)
POLY-3 RATE (c)	9/42.15	12/39.46	10/43.77	10/37.94
POLY-3 PERCENT (g)	21.4%	30.4%	22.9%	26.4%
TERMINAL (d)	7/28 (25%)	6/23 (26%)	7/29 (24%)	5/20 (25%)
FIRST INCIDENCE	655	629	538	548

STATISTICAL TESTS				
POLY 3	P=0.491	P=0.246	P=0.537	P=0.396
POLY 1.5	P=0.520	P=0.257	P=0.520	P=0.424
POLY 6	P=0.449	P=0.244	P=0.557	P=0.360
RAO-SCOTT	P=0.486	P=0.248	P=0.529	P=0.388
LITTER C-A/FISHERS	P=0.550	P=0.384	P=0.500	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Adenocarcinoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	5/50 (10%)	4/49 (8%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	2/42.06	2/39.53	5/43.93	4/35.67
POLY-3 PERCENT (g)	4.8%	5.1%	11.4%	11.2%
TERMINAL (d)	1/28 (4%)	1/24 (4%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	670	629	538	641
STATISTICAL TESTS				
POLY 3	P=0.184	P=0.672	P=0.233	P=0.263
POLY 1.5	P=0.208	P=0.678	P=0.226	P=0.287
POLY 6	P=0.156	P=0.667	P=0.242	P=0.235
RAO-SCOTT	P=0.216	P=0.664	P=0.278	P=0.292
LITTER C-A/FISHERS	P=0.427	P=0.695	P=0.209	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Adenocarcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	5/50 (10%)	4/49 (8%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	2/42.06	3/39.60	5/43.93	4/35.67
POLY-3 PERCENT (g)	4.8%	7.6%	11.4%	11.2%
TERMINAL (d)	1/28 (4%)	1/24 (4%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	670	629	538	641
STATISTICAL TESTS				
POLY 3	P=0.241	P=0.473	P=0.233	P=0.263
POLY 1.5	P=0.269	P=0.480	P=0.226	P=0.287
POLY 6	P=0.206	P=0.467	P=0.242	P=0.235
RAO-SCOTT	P=0.264	P=0.480	P=0.268	P=0.283
LITTER C-A/FISHERS	P=0.508	P=0.500	P=0.209	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Adenocarcinoma, Adenoma, Sq Cell Carcinoma, or Papilloma Sq				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	4/50 (8%)	8/50 (16%)	5/49 (10%)
LITTERS (b)	4/25 (16%)	4/25 (16%)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	4/42.06	4/39.81	8/44.57	5/35.78
POLY-3 PERCENT (g)	9.5%	10.1%	18%	14%
TERMINAL (d)	3/28 (11%)	1/24 (4%)	4/29 (14%)	1/20 (5%)
FIRST INCIDENCE	670	629	538	641
STATISTICAL TESTS				
POLY 3	P=0.328	P=0.614	P=0.204	P=0.399
POLY 1.5	P=0.368	P=0.621	P=0.192	P=0.431
POLY 6	P=0.280	P=0.610	P=0.221	P=0.359
RAO-SCOTT	P=0.337	P=0.598	P=0.219	P=0.390
LITTER C-A/FISHERS	P=0.559N	P=0.649	P=0.160	P=0.649

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	5/50 (10%)	6/50 (12%)	3/49 (6%)
LITTERS (b)	9/25 (36%)	5/25 (20%)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	9/41.83	5/39.24	6/43.51	3/35.54
POLY-3 PERCENT (g)	21.5%	12.7%	13.8%	8.4%
TERMINAL (d)	9/28 (32%)	4/24 (17%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	729 (T)	712	643	617
STATISTICAL TESTS				
POLY 3	P=0.124N	P=0.225N	P=0.256N	P=0.100N
POLY 1.5	P=0.110N	P=0.217N	P=0.272N	P=0.086N
POLY 6	P=0.143N	P=0.231N	P=0.236N	P=0.123N
RAO-SCOTT	P=0.120N	P=0.218N	P=0.252N	P=0.097N
LITTER C-A/FISHERS	P=0.071N	P=0.173N	P=0.269N	P=0.048N*

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Papilloma Squamous				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	0/49 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	1/41.83	1/39.38	4/43.47	0/34.89
POLY-3 PERCENT (g)	2.4%	2.5%	9.2%	0%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	2/29 (7%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	675	638	---
STATISTICAL TESTS				
POLY 3	P=0.423N	P=0.747	P=0.190	P=0.536N
POLY 1.5	P=0.392N	P=0.751	P=0.185	P=0.524N
POLY 6	P=0.470N	P=0.745	P=0.197	P=0.553N
RAO-SCOTT	P=0.397N	P=0.733	P=0.232	P=0.527N
LITTER C-A/FISHERS	P=0.339N	P=0.755	P=0.174	P=0.500N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Polyp Stromal				
<hr/>				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	4/50 (8%)	6/50 (12%)	3/49 (6%)
LITTERS (b)	9/25 (36%)	4/25 (16%)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	9/41.83	4/39.18	6/43.51	3/35.54
POLY-3 PERCENT (g)	21.5%	10.2%	13.8%	8.4%
TERMINAL (d)	9/28 (32%)	4/24 (17%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	643	617
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STATISTICAL TESTS				
POLY 3	P=0.148N	P=0.137N	P=0.256N	P=0.100N
POLY 1.5	P=0.134N	P=0.132N	P=0.272N	P=0.086N
POLY 6	P=0.169N	P=0.142N	P=0.236N	P=0.123N
RAO-SCOTT	P=0.147N	P=0.136N	P=0.254N	P=0.098N
LITTER C-A/FISHERS	P=0.091N	P=0.098N	P=0.269N	P=0.048N*

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Squamous Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/49 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	1/41.83	0/39.18	2/43.47	1/35.00
POLY-3 PERCENT (g)	2.4%	0%	4.6%	2.9%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	---	638	702
STATISTICAL TESTS				
POLY 3	P=0.489	P=0.513N	P=0.513	P=0.720
POLY 1.5	P=0.512	P=0.509N	P=0.507	P=0.734
POLY 6	P=0.455	P=0.516N	P=0.522	P=0.700
RAO-SCOTT	P=0.483	P=0.512N	P=0.524	P=0.690
LITTER C-A/FISHERS	P=0.552	P=0.500N	P=0.500	P=0.755

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (excluding Uterus, Cervix)				
Squamous Cell Carcinoma or Papilloma Squamous				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)	1/49 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	4/25 (16%)	1/25 (4%)
POLY-3 RATE (c)	2/41.83	1/39.38	4/43.47	1/35.00
POLY-3 PERCENT (g)	4.8%	2.5%	9.2%	2.9%
TERMINAL (d)	2/28 (7%)	0/24 (0%)	2/29 (7%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	675	638	702
STATISTICAL TESTS				
POLY 3	P=0.543N	P=0.521N	P=0.354	P=0.562N
POLY 1.5	P=0.515N	P=0.515N	P=0.346	P=0.541N
POLY 6	P=0.584N	P=0.525N	P=0.366	P=0.590N
RAO-SCOTT	P=0.511N	P=0.507N	P=0.363	P=0.534N
LITTER C-A/FISHERS	P=0.462N	P=0.500N	P=0.334	P=0.500N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix)				
Adenocarcinoma				
<hr/>				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	5/50 (10%)	4/49 (8%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	2/42.06	2/39.53	5/43.93	4/35.67
POLY-3 PERCENT (g)	4.8%	5.1%	11.4%	11.2%
TERMINAL (d)	1/28 (4%)	1/24 (4%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	670	629	538	641
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.184	P=0.672	P=0.233	P=0.263
POLY 1.5	P=0.208	P=0.678	P=0.226	P=0.287
POLY 6	P=0.156	P=0.667	P=0.242	P=0.235
RAO-SCOTT	P=0.216	P=0.664	P=0.278	P=0.292
LITTER C-A/FISHERS	P=0.427	P=0.695	P=0.209	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix) Adenocarcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	5/50 (10%)	4/49 (8%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	2/42.06	3/39.60	5/43.93	4/35.67
POLY-3 PERCENT (g)	4.8%	7.6%	11.4%	11.2%
TERMINAL (d)	1/28 (4%)	1/24 (4%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	670	629	538	641
STATISTICAL TESTS				
POLY 3	P=0.241	P=0.473	P=0.233	P=0.263
POLY 1.5	P=0.269	P=0.480	P=0.226	P=0.287
POLY 6	P=0.206	P=0.467	P=0.242	P=0.235
RAO-SCOTT	P=0.264	P=0.480	P=0.268	P=0.283
LITTER C-A/FISHERS	P=0.508	P=0.500	P=0.209	P=0.500

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
Time Report Requested: 15:59:32
First Dose M/F: 07/03/12 / 07/02/12
Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix) Adenocarcinoma, Adenoma, Sq Cell Carcinoma, or Papilloma Sq				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	4/50 (8%)	8/50 (16%)	5/49 (10%)
LITTERS (b)	4/25 (16%)	4/25 (16%)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	4/42.06	4/39.81	8/44.57	5/35.78
POLY-3 PERCENT (g)	9.5%	10.1%	18%	14%
TERMINAL (d)	3/28 (11%)	1/24 (4%)	4/29 (14%)	1/20 (5%)
FIRST INCIDENCE	670	629	538	641
STATISTICAL TESTS				
POLY 3	P=0.328	P=0.614	P=0.204	P=0.399
POLY 1.5	P=0.368	P=0.621	P=0.192	P=0.431
POLY 6	P=0.280	P=0.610	P=0.221	P=0.359
RAO-SCOTT	P=0.337	P=0.598	P=0.219	P=0.390
LITTER C-A/FISHERS	P=0.559N	P=0.649	P=0.160	P=0.649

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix)				
Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	6/50 (12%)	6/50 (12%)	3/49 (6%)
LITTERS (b)	9/25 (36%)	6/25 (24%)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	9/41.83	6/39.72	6/43.51	3/35.54
POLY-3 PERCENT (g)	21.5%	15.1%	13.8%	8.4%
TERMINAL (d)	9/28 (32%)	4/24 (17%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	729 (T)	588	643	617
STATISTICAL TESTS				
POLY 3	P=0.104N	P=0.322N	P=0.256N	P=0.100N
POLY 1.5	P=0.092N	P=0.314N	P=0.272N	P=0.086N
POLY 6	P=0.123N	P=0.324N	P=0.236N	P=0.123N
RAO-SCOTT	P=0.099N	P=0.310N	P=0.250N	P=0.095N
LITTER C-A/FISHERS	P=0.055N	P=0.269N	P=0.269N	P=0.048N*

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix)				
Papilloma Squamous				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	0/49 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	1/41.83	1/39.38	4/43.47	0/34.89
POLY-3 PERCENT (g)	2.4%	2.5%	9.2%	0%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	2/29 (7%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	675	638	---
STATISTICAL TESTS				
POLY 3	P=0.423N	P=0.747	P=0.190	P=0.536N
POLY 1.5	P=0.392N	P=0.751	P=0.185	P=0.524N
POLY 6	P=0.470N	P=0.745	P=0.197	P=0.553N
RAO-SCOTT	P=0.397N	P=0.733	P=0.232	P=0.527N
LITTER C-A/FISHERS	P=0.339N	P=0.755	P=0.174	P=0.500N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix)				
Polyp Stromal				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	4/50 (8%)	6/50 (12%)	3/49 (6%)
LITTERS (b)	9/25 (36%)	4/25 (16%)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	9/41.83	4/39.18	6/43.51	3/35.54
POLY-3 PERCENT (g)	21.5%	10.2%	13.8%	8.4%
TERMINAL (d)	9/28 (32%)	4/24 (17%)	3/29 (10%)	1/20 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	643	617
STATISTICAL TESTS				
POLY 3	P=0.148N	P=0.137N	P=0.256N	P=0.100N
POLY 1.5	P=0.134N	P=0.132N	P=0.272N	P=0.086N
POLY 6	P=0.169N	P=0.142N	P=0.236N	P=0.123N
RAO-SCOTT	P=0.147N	P=0.136N	P=0.254N	P=0.098N
LITTER C-A/FISHERS	P=0.091N	P=0.098N	P=0.269N	P=0.048N*

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix)				
Squamous Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/49 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	1/41.83	0/39.18	2/43.47	1/35.00
POLY-3 PERCENT (g)	2.4%	0%	4.6%	2.9%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	---	638	702
STATISTICAL TESTS				
POLY 3	P=0.489	P=0.513N	P=0.513	P=0.720
POLY 1.5	P=0.512	P=0.509N	P=0.507	P=0.734
POLY 6	P=0.455	P=0.516N	P=0.522	P=0.700
RAO-SCOTT	P=0.483	P=0.512N	P=0.524	P=0.690
LITTER C-A/FISHERS	P=0.552	P=0.500N	P=0.500	P=0.755

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Uterus (including Uterus, Cervix)				
Squamous Cell Carcinoma or Papilloma Squamous				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)	1/49 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	4/25 (16%)	1/25 (4%)
POLY-3 RATE (c)	2/41.83	1/39.38	4/43.47	1/35.00
POLY-3 PERCENT (g)	4.8%	2.5%	9.2%	2.9%
TERMINAL (d)	2/28 (7%)	0/24 (0%)	2/29 (7%)	0/20 (0%)
FIRST INCIDENCE	729 (T)	675	638	702
STATISTICAL TESTS				
POLY 3	P=0.543N	P=0.521N	P=0.354	P=0.562N
POLY 1.5	P=0.515N	P=0.515N	P=0.346	P=0.541N
POLY 6	P=0.584N	P=0.525N	P=0.366	P=0.590N
RAO-SCOTT	P=0.511N	P=0.507N	P=0.363	P=0.534N
LITTER C-A/FISHERS	P=0.462N	P=0.500N	P=0.334	P=0.500N

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Vagina				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	2/39.24	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	5.1%	0%	0%
TERMINAL (d)	0/28 (0%)	1/24 (4%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	712	---	---
STATISTICAL TESTS				
POLY 3	P=0.396N	P=0.223	(e)	(e)
POLY 1.5	P=0.387N	P=0.227	(e)	(e)
POLY 6	P=0.404N	P=0.219	(e)	(e)
RAO-SCOTT	P=0.460N	P=0.354	(e)	(e)
LITTER C-A/FISHERS	P=0.368N	P=0.245	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
Zymbal's Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	0/39.18	2/42.83	1/35.85
POLY-3 PERCENT (g)	0%	0%	4.7%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	2/29 (7%)	1/20 (5%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.293	(e)	P=0.242	P=0.469
POLY 1.5	P=0.316	(e)	P=0.240	P=0.481
POLY 6	P=0.260	(e)	P=0.245	P=0.453
RAO-SCOTT	P=0.350	(e)	P=0.332	P=0.516
LITTER C-A/FISHERS	P=0.349	(e)	P=0.245	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female

All Organs
Hemangiosarcoma or Hemangioma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	0/39.18	2/42.83	1/35.85
POLY-3 PERCENT (g)	0%	0%	4.7%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	2/29 (7%)	1/20 (5%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)

STATISTICAL TESTS

POLY 3	P=0.293	(e)	P=0.242	P=0.469
POLY 1.5	P=0.316	(e)	P=0.240	P=0.481
POLY 6	P=0.260	(e)	P=0.245	P=0.453
RAO-SCOTT	P=0.350	(e)	P=0.332	P=0.516
LITTER C-A/FISHERS	P=0.349	(e)	P=0.245	P=0.500

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

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

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.83	0/39.18	1/43.09	1/36.24
POLY-3 PERCENT (g)	0%	0%	2.3%	2.8%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	658	617
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
 Time Report Requested: 15:59:32
 First Dose M/F: 07/03/12 / 07/02/12
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
All Organs				
Malignant Schwannoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/41.83	4/39.77	0/42.83	1/35.85
POLY-3 PERCENT (g)	2.4%	10.1%	0%	2.8%
TERMINAL (d)	1/28 (4%)	2/24 (8%)	0/29 (0%)	1/20 (5%)
FIRST INCIDENCE	729 (T)	570	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.368N	P=0.162	P=0.495N	P=0.726
POLY 1.5	P=0.354N	P=0.167	P=0.498N	P=0.739
POLY 6	P=0.382N	P=0.160	P=0.493N	P=0.705
RAO-SCOTT	P=0.425N	P=0.268	P=0.628N	P=0.737
LITTER C-A/FISHERS	P=0.426N	P=0.305	P=0.500N	P=0.755

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female

All Organs
Mesothelioma: Benign, Malignant, NOS

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

CAS Number: 84776-26-1

Date Report Requested: 09/06/2021

Time Report Requested: 15:59:32

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.83	0/39.18	0/42.83	0/35.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/24 (0%)	0/29 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)

Experiment Number: 00058 - 03

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	44/50 (88%)	46/50 (92%)	44/50 (88%)	31/50 (62%)
LITTERS (b)	24/25 (96%)	25/25 (100%)	25/25 (100%)	22/25 (88%)
POLY-3 RATE (c)	44/49.73	46/49.48	44/49.58	31/41.70
POLY-3 PERCENT (g)	88.5%	93%	88.8%	74.4%
TERMINAL (d)	23/28 (82%)	21/24 (88%)	24/29 (83%)	15/20 (75%)
FIRST INCIDENCE	499	302	360	548
STATISTICAL TESTS				
POLY 3	P=0.008N**	P=0.333	P=0.609	P=0.055N
POLY 1.5	P<0.001N**	P=0.347	P=0.613	P=0.017N*
POLY 6	P=0.057N	P=0.324	P=0.606	P=0.169N
RAO-SCOTT	P=0.014N*	P=0.363	P=0.617	P=0.085N
LITTER C-A/FISHERS	P=0.053N	P=0.500	P=0.500	P=0.305N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

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

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	7/50 (14%)	13/50 (26%)	13/50 (26%)	14/50 (28%)
LITTERS (b)	7/25 (28%)	8/25 (32%)	13/25 (52%)	11/25 (44%)
POLY-3 RATE (c)	7/42.87	13/41.88	13/44.85	14/39.00
POLY-3 PERCENT (g)	16.3%	31%	29%	35.9%
TERMINAL (d)	3/28 (11%)	3/24 (13%)	7/29 (24%)	4/20 (20%)
FIRST INCIDENCE	578	570	538	578
STATISTICAL TESTS				
POLY 3	P=0.079	P=0.087	P=0.121	P=0.035*
POLY 1.5	P=0.099	P=0.089	P=0.113	P=0.044*
POLY 6	P=0.061	P=0.092	P=0.131	P=0.027*
RAO-SCOTT	P=0.111	P=0.125	P=0.163	P=0.062
LITTER C-A/FISHERS	P=0.168	P=0.500	P=0.074	P=0.189

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Black Cohosh
 CAS Number: 84776-26-1

Date Report Requested: 09/06/2021
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 mg/kg female	75 mg/kg female	250 mg/kg female	750 mg/kg female
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	46/50 (92%)	47/50 (94%)	45/50 (90%)	32/50 (64%)
LITTERS (b)	24/25 (96%)	25/25 (100%)	25/25 (100%)	22/25 (88%)
POLY-3 RATE (c)	46/50.00	47/50.00	45/49.58	32/42.02
POLY-3 PERCENT (g)	92%	94%	90.8%	76.2%
TERMINAL (d)	24/28 (86%)	21/24 (88%)	25/29 (86%)	15/20 (75%)
FIRST INCIDENCE	499	302	360	548
STATISTICAL TESTS				
POLY 3	P=0.003N**	P=0.500	P=0.555N	P=0.023N*
POLY 1.5	P<0.001N**	P=0.500	P=0.531N	P=0.005N**
POLY 6	P=0.034N*	P=0.500	P=0.587N	P=0.099N
RAO-SCOTT	P=0.008N**	P=0.529	P=0.575N	P=0.052N
LITTER C-A/FISHERS	P=0.053N	P=0.500	P=0.500	P=0.305N

Experiment Number: 00058 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Black Cohosh

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Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of litters with tumor-bearing animals/number of litters examined at site
- (c) Number of tumor-bearing animals/Poly-3 number
- (d) Observed incidence at terminal kill.
- (e) Value of statistic cannot be computed.
- (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
- (g) Poly-3 adjusted lifetime tumor incidence.
- (n) No statistics are calculated if all dose groups have fewer than two tumors.
- (I) Interim sacrifice
- (T) Terminal sacrifice
- # Tumor rates based on numbers of animals necropsied.
- * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
- ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
- N Indicates a negative trend for all tests
The Rao-Scott statistic performs the Poly-3 test with an adjustment for within-litter correlation.
The Litter C-A/Fishers statistic compares directly the litter incidence rates.

*** END OF REPORT ***