

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

C Number: C03098C
Lock Date: 05/13/1992
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 03/13/1995

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HISTORICAL CONTROL STUDIES

From NA 1994 report

SAME ROUTE

05108-02 -- Promethazine hydrochloride (GAVAGE WATER)

ALL ROUTES

05085-02 -- Manganese sulfate monohydrate (ORAL FEED)

05086-02 -- o-Benzyl-p-chlorophenol (GAVAGE CORN OIL)

05087-03 -- Triamterene (ORAL FEED)

05089-02 -- Chloraminated water (ORAL WATER)

05090-02 -- Coumarin (GAVAGE CORN OIL)

05091-02 -- 3,4-Dihydrocoumarin (GAVAGE CORN OIL)

05092-02 -- o-Nitroanisole (ORAL FEED)

05093-01 -- p-Nitroaniline (GAVAGE CORN OIL)

05100-04 -- Tricresyl phosphate (ORAL FEED)

05101-01 -- Methyl bromide (INHALATION AIR)

05102-06 -- Benzethonium chloride (SKIN ETHANOL)

05106-03 -- Diethyl phthalate (SKIN ACETONE)

05108-02 -- Promethazine hydrochloride (GAVAGE WATER)

05109-12 -- Triethanolamine (SKIN ACETONE)

05111-02 -- 1,2,3-Trichloropropane (GAVAGE CORN OIL)

05114-02 -- Hexachlorocyclopentadiene (INHALATION AIR)

05120-04 -- Benzyl acetate (ORAL FEED)

05127-02 -- Barium chloride dihydrate (ORAL WATER)

05130-02 -- C.I. Direct blue 218 (ORAL FEED)

05131-02 -- Sodium fluoride (ORAL WATER)

05133-04 -- Acetonitrile (INHALATION AIR)

05134-02 -- 1,3-Butadiene (INHALATION AIR)

05142-04 -- tert-Butyl alcohol (ORAL WATER)

05150-02 -- Methylphenidate hydrochloride (ORAL FEED)

05155-04 -- p-Nitrobenzoic acid (ORAL FEED)

05165-02 -- 4,4-Thiobis(6-tert-butyl-m-cresol) (ORAL FEED)

05185-04 -- Isobutyl nitrite (INHALATION AIR)

05212-03 -- Oxazepam (ORAL FEED)

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HISTORICAL CONTROL STUDIES

From NA 1994 report

05214-02 -- 1-trans-delta-9-Tetrahydrocannabinol (GAVAGE CORN OIL)

88034-04 -- Ozone (INHALATION AIR)

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

Adrenal Medulla
Bone Marrow
Islets, Pancreatic
Liver
Lung
Ovary
Pituitary Gland
Spleen
Testes
Thyroid Gland

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

MALE MOUSE

Organ

Skin

All Organs

Morphology

Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma

Osteosarcoma

Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Adrenal Medulla		
Pheochromocytoma Benign		
TUMOR RATES		
OVERALL(a)	1/110 (1%)	0/109 (0%)
POLY-3 RATE (b)	1/100.52	0/98.88
POLY-3 PERCENT (g)	1%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/97 (1%)	0/96 (0%)
FIRST INCIDENCE	722(T)	---
HC TUMORS SAME ROUTE	0/46 (0%)	
HC TUMORS ALL ROUTES	7/861 (1%)	
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

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First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Bone		
Osteosarcoma		
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TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/100.52	0/99.88
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/97 (0%)	0/97 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	1/1556 (0%)	
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STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

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First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Bone Marrow		
Hemangiosarcoma		
TUMOR RATES		
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/100.52	0/99.88
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/97 (0%)	0/97 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/49 (0%)	
HC TUMORS ALL ROUTES	8/1549 (1%)	
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Harderian Gland		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	4/110 (4%)	4/110 (4%)
POLY-3 RATE (b)	4/100.52	4/99.88
POLY-3 PERCENT (g)	4%	4%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	4/97 (4%)	4/97 (4%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	101/1556 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.637	P=0.637
POLY 1.5	P=0.637	P=0.637
POLY 6	P=0.638	P=0.638
COCH-ARM / FISHERS	P=0.641	P=0.639N
MAX-ISO-POLY-3	P=0.497	P=0.497
HISTCONT SAME RTE	P=0.197	P=0.282
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.177	
CURR VS HC ALL RTES	P=0.258	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 153 WEEKS

DOSE	MALE	
	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Harderian Gland		
Carcinoma or Adenoma		
TUMOR RATES	#	#
OVERALL(a)	5/110 (5%)	4/110 (4%)
POLY-3 RATE (b)	5/100.52	4/99.88
POLY-3 PERCENT (g)	5%	4%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	5/97 (5%)	4/97 (4%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	114/1556 (7%)	
STATISTICAL TESTS		
POLY 3	P=0.504N	P=0.504N
POLY 1.5	P=0.504N	P=0.504N
POLY 6	P=0.503N	P=0.503N
COCH-ARM / FISHERS	P=1.000N	P=0.500N
MAX-ISO-POLY-3	P=0.371N	P=0.371N
HISTCONT SAME RTE	P=0.198	P=0.456
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.461	
CURR VS HC ALL RTES	P=0.302	

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LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Intestine Small: Jejunum		
Hemangiosarcoma		
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TUMOR RATES	#	#
OVERALL(a)	2/110 (2%)	0/110 (0%)
POLY-3 RATE (b)	2/100.52	0/99.88
POLY-3 PERCENT (g)	2%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/97 (2%)	0/97 (0%)
FIRST INCIDENCE	722(T)	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	2/1556 (0%)	
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STATISTICAL TESTS		
POLY 3	P=0.240N	P=0.240N
POLY 1.5	P=0.240N	P=0.240N
POLY 6	P=0.240N	P=0.240N
COCH-ARM / FISHERS	P=0.239N	P=0.249N
MAX-ISO-POLY-3	P=0.079N	P=0.079N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.327	
CURR VS HC ALL RTES	P=0.000**	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Intestine Small: Site Unspecified		
Carcinoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	2/110 (2%)
POLY-3 RATE (b)	0/100.52	2/99.88
POLY-3 PERCENT (g)	0%	2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/97 (0%)	2/97 (2%)
FIRST INCIDENCE	---	722(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	19/1556 (1%)	
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STATISTICAL TESTS		
POLY 3	P=0.237	P=0.237
POLY 1.5	P=0.237	P=0.237
POLY 6	P=0.238	P=0.238
COCH-ARM / FISHERS	P=0.239	P=0.249
MAX-ISO-POLY-3	P=0.078	P=0.078
HISTCONT SAME RTE	P=0.198	P=0.423
HISTCONT ALL RTEs	P=0.302	P=0.442
CURR VS HC SAME RTE	P=1.000	
CURR VS HC ALL RTEs	P=0.256	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Intestine Small: Site Unspecified		
Hemangiosarcoma		
TUMOR RATES	#	#
OVERALL(a)	2/110 (2%)	0/110 (0%)
POLY-3 RATE (b)	2/100.52	0/99.88
POLY-3 PERCENT (g)	2%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/97 (2%)	0/97 (0%)
FIRST INCIDENCE	722(T)	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	2/1556 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.240N	P=0.240N
POLY 1.5	P=0.240N	P=0.240N
POLY 6	P=0.240N	P=0.240N
COCH-ARM / FISHERS	P=0.239N	P=0.249N
MAX-ISO-POLY-3	P=0.079N	P=0.079N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.327	
CURR VS HC ALL RTES	P=0.000**	

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LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Islets, Pancreatic		
Adenoma		
TUMOR RATES		
OVERALL(a)	1/110 (1%)	1/109 (1%)
POLY-3 RATE (b)	1/100.52	1/98.88
POLY-3 PERCENT (g)	1%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/97 (1%)	1/96 (1%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	14/1495 (1%)	
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

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LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
Islets, Pancreatic Carcinoma		
<hr/>		
TUMOR RATES		
OVERALL(a)	0/110 (0%)	0/109 (0%)
POLY-3 RATE (b)	0/100.52	0/98.88
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/97 (0%)	0/96 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	2/1495 (0%)	
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STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

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LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
Islets, Pancreatic Carcinoma or Adenoma		
<hr/>		
TUMOR RATES		
OVERALL(a)	1/110 (1%)	1/109 (1%)
POLY-3 RATE (b)	1/100.52	1/98.88
POLY-3 PERCENT (g)	1%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/97 (1%)	1/96 (1%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	16/1495 (1%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Liver		
Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	10/110 (9%)	8/110 (7%)
POLY-3 RATE (b)	10/100.52	8/99.88
POLY-3 PERCENT (g)	9.9%	8%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	10/97 (10%)	8/97 (8%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	16/50 (32%)	
HC TUMORS ALL ROUTES	625/1554 (40%)	
STATISTICAL TESTS		
POLY 3	P=0.408N	P=0.408N
POLY 1.5	P=0.409N	P=0.409N
POLY 6	P=0.406N	P=0.406N
COCH-ARM / FISHERS	P=0.403N	P=0.403N
MAX-ISO-POLY-3	P=0.316N	P=0.316N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.000**	
CURR VS HC ALL RTES	P=0.000**	

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Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Liver		
Hepatocellular Carcinoma		
TUMOR RATES		
OVERALL(a)	9/110 (8%)	6/110 (5%)
POLY-3 RATE (b)	9/100.52	6/99.88
POLY-3 PERCENT (g)	9%	6%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	9/97 (9%)	6/97 (6%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	8/50 (16%)	
HC TUMORS ALL ROUTES	317/1554 (20%)	
STATISTICAL TESTS		
POLY 3	P=0.301N	P=0.301N
POLY 1.5	P=0.301N	P=0.301N
POLY 6	P=0.299N	P=0.299N
COCH-ARM / FISHERS	P=0.296N	P=0.297N
MAX-ISO-POLY-3	P=0.215N	P=0.215N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.157	
CURR VS HC ALL RTEs	P=0.004**	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:53
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 153 WEEKS**

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Liver		
Hepatocellular Carcinoma or Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	18/110 (16%)	14/110 (13%)
POLY-3 RATE (b)	18/100.52	14/99.88
POLY-3 PERCENT (g)	17.9%	14%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	18/97 (19%)	14/97 (14%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	18/50 (36%)	
HC TUMORS ALL ROUTES	814/1554 (52%)	
STATISTICAL TESTS		
POLY 3	P=0.288N	P=0.288N
POLY 1.5	P=0.289N	P=0.289N
POLY 6	P=0.286N	P=0.286N
COCH-ARM / FISHERS	P=0.283N	P=0.283N
MAX-ISO-POLY-3	P=0.227N	P=0.227N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.008**	
CURR VS HC ALL RTES	P=0.000**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Liver		
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma		
TUMOR RATES		
OVERALL(a)	18/110 (16%)	14/110 (13%)
POLY-3 RATE (b)	18/100.52	14/99.88
POLY-3 PERCENT (g)	17.9%	14%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	18/97 (19%)	14/97 (14%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	18/50 (36%)	
HC TUMORS ALL ROUTES	815/1554 (52%)	
STATISTICAL TESTS		
POLY 3	P=0.288N	P=0.288N
POLY 1.5	P=0.289N	P=0.289N
POLY 6	P=0.286N	P=0.286N
COCH-ARM / FISHERS	P=0.283N	P=0.283N
MAX-ISO-POLY-3	P=0.227N	P=0.227N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.008**	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

DOSE	MALE	
	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Lung		
Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	18/110 (16%)	18/110 (16%)
POLY-3 RATE (b)	18/100.89	18/99.88
POLY-3 PERCENT (g)	17.8%	18%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	17/97 (18%)	18/97 (19%)
FIRST INCIDENCE	620	722(T)
HC TUMORS SAME ROUTE	9/50 (18%)	
HC TUMORS ALL ROUTES	297/1555 (19%)	
STATISTICAL TESTS		
POLY 3	P=0.560	P=0.560
POLY 1.5	P=0.561	P=0.561
POLY 6	P=0.559	P=0.559
COCH-ARM / FISHERS	P=0.572	P=0.572N
MAX-ISO-POLY-3	P=0.487	P=0.487
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.801	
CURR VS HC ALL RTES	P=0.534	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:53
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 153 WEEKS**

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Lung		
Alveolar/Bronchiolar Carcinoma		
TUMOR RATES		
OVERALL(a)	9/110 (8%)	8/110 (7%)
POLY-3 RATE (b)	9/100.52	8/99.88
POLY-3 PERCENT (g)	9%	8%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	9/97 (9%)	8/97 (8%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	2/50 (4%)	
HC TUMORS ALL ROUTES	99/1555 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.505N	P=0.505N
POLY 1.5	P=0.506N	P=0.506N
POLY 6	P=0.504N	P=0.504N
COCH-ARM / FISHERS	P=1.000N	P=0.500N
MAX-ISO-POLY-3	P=0.406N	P=0.406N
HISTCONT SAME RTE	P=0.197	P=0.295
HISTCONT ALL RTES	P=0.375	P=0.414
CURR VS HC SAME RTE	P=0.342	
CURR VS HC ALL RTES	P=0.439	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Lung		
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	27/110 (25%)	25/110 (23%)
POLY-3 RATE (b)	27/100.89	25/99.88
POLY-3 PERCENT (g)	26.8%	25%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	26/97 (27%)	25/97 (26%)
FIRST INCIDENCE	620	722(T)
HC TUMORS SAME ROUTE	11/50 (22%)	
HC TUMORS ALL ROUTES	380/1555 (24%)	
STATISTICAL TESTS		
POLY 3	P=0.453N	P=0.453N
POLY 1.5	P=0.451N	P=0.451N
POLY 6	P=0.453N	P=0.453N
COCH-ARM / FISHERS	P=0.437N	P=0.437N
MAX-ISO-POLY-3	P=0.390N	P=0.390N
HISTCONT SAME RTE	P=0.196	P=1.000
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.709	
CURR VS HC ALL RTES	P=0.885	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Pituitary Gland: Pars Distalis or Unspecified Site		
Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	
HISTCONT ALL RTES	(n)	
CURR VS HC SAME RTE	P=2010	P=2010
CURR VS HC ALL RTES	P=05121-08	P=05121-08

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Pituitary Gland: Pars Intermedia		
Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	
HISTCONT ALL RTES	(n)	
CURR VS HC SAME RTE	P=2010	P=2010
CURR VS HC ALL RTES	P=05121-08	P=05121-08

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:53
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 153 WEEKS**

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
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)	0/105 (0%)	3/85 (4%)
POLY-3 RATE (b)	0/95.89	3/76.38
POLY-3 PERCENT (g)	0%	3.9%
INT SACRIFICE 1	0/10 (0%)	0/8 (0%)
TERMINAL (d)	0/93 (0%)	3/74 (4%)
FIRST INCIDENCE	---	722(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	4/1556 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.084	P=0.084
POLY 1.5	P=0.085	P=0.085
POLY 6	P=0.084	P=0.084
COCH-ARM / FISHERS	P=0.088	P=0.088
MAX-ISO-POLY-3	P=0.032*	P=0.032*
HISTCONT SAME RTE	P=0.185	P=0.297
HISTCONT ALL RTES	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=1.000	
CURR VS HC ALL RTES	P=0.576	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Skin		
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma		
TUMOR RATES	#	#
OVERALL(a)	0/105 (0%)	0/85 (0%)
POLY-3 RATE (b)	0/95.89	0/76.38
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/8 (0%)
TERMINAL (d)	0/93 (0%)	0/74 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	7/1556 (0%)	
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Skin		
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/100.52	0/99.88
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/97 (0%)	0/97 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	6/1556 (0%)	
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Skin		
Sarcoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	1/110 (1%)	0/110 (0%)
POLY-3 RATE (b)	1/100.52	0/99.88
POLY-3 PERCENT (g)	1%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/97 (1%)	0/97 (0%)
FIRST INCIDENCE	722(T)	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	5/1556 (0%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Spleen		
Hemangiosarcoma		
TUMOR RATES		
OVERALL(a)	1/110 (1%)	0/110 (0%)
POLY-3 RATE (b)	1/100.52	0/99.88
POLY-3 PERCENT (g)	1%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/97 (1%)	0/97 (0%)
FIRST INCIDENCE	722(T)	---
HC TUMORS SAME ROUTE	0/49 (0%)	
HC TUMORS ALL ROUTES	33/1544 (2%)	
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Stomach, Forestomach		
Squamous Cell Papilloma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	1/110 (1%)	0/110 (0%)
POLY-3 RATE (b)	1/100.52	0/99.88
POLY-3 PERCENT (g)	1%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/97 (1%)	0/97 (0%)
FIRST INCIDENCE	722(T)	---
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	7/1556 (0%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:53
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 153 WEEKS**

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Testes		
Adenoma		
TUMOR RATES		
OVERALL(a)	3/110 (3%)	1/110 (1%)
POLY-3 RATE (b)	3/100.52	1/99.88
POLY-3 PERCENT (g)	3%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	3/97 (3%)	1/97 (1%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	12/1553 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.309N	P=0.309N
POLY 1.5	P=0.310N	P=0.310N
POLY 6	P=0.309N	P=0.309N
COCH-ARM / FISHERS	P=0.307N	P=0.311N
MAX-ISO-POLY-3	P=0.160N	P=0.160N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	P=0.432	P=1.000
CURR VS HC SAME RTE	P=0.800	
CURR VS HC ALL RTES	P=0.036*	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Thyroid Gland: Follicular Cell		
Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	1/110 (1%)	3/110 (3%)
POLY-3 RATE (b)	1/100.52	3/99.88
POLY-3 PERCENT (g)	1%	3%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/97 (1%)	3/97 (3%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	0/48 (0%)	
HC TUMORS ALL ROUTES	27/1543 (2%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.305	P=0.305
POLY 1.5	P=0.305	P=0.305
POLY 6	P=0.306	P=0.306
COCH-ARM / FISHERS	P=0.307	P=0.311
MAX-ISO-POLY-3	P=0.157	P=0.157
HISTCONT SAME RTE	P=0.199	P=0.333
HISTCONT ALL RTEs	P=0.168	P=0.262
CURR VS HC SAME RTE	P=0.415	
CURR VS HC ALL RTEs	P=0.519	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:53
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Thyroid Gland: Follicular Cell Carcinoma or Adenoma		
TUMOR RATES	#	#
OVERALL(a)	2/110 (2%)	0/110 (0%)
POLY-3 RATE (b)	2/100.52	0/99.88
POLY-3 PERCENT (g)	2%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/97 (2%)	0/97 (0%)
FIRST INCIDENCE	722(T)	---
HC TUMORS SAME ROUTE	0/48 (0%)	
HC TUMORS ALL ROUTES	29/1543 (2%)	
STATISTICAL TESTS		
POLY 3	P=0.240N	P=0.240N
POLY 1.5	P=0.240N	P=0.240N
POLY 6	P=0.240N	P=0.240N
COCH-ARM / FISHERS	P=0.239N	P=0.249N
MAX-ISO-POLY-3	P=0.079N	P=0.079N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.332	
CURR VS HC ALL RTES	P=0.980	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Benign Tumors		
TUMOR RATES	#	#
OVERALL(a)	12/110 (11%)	13/110 (12%)
POLY-3 RATE (b)	12/101.16	13/100.55
POLY-3 PERCENT (g)	11.9%	12.9%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	11/97 (11%)	12/97 (12%)
FIRST INCIDENCE	515	502
HC TUMORS SAME ROUTE	25/50 (50%)	
HC TUMORS ALL ROUTES	926/1556 (60%)	
STATISTICAL TESTS		
POLY 3	P=0.494	P=0.494
POLY 1.5	P=0.493	P=0.493
POLY 6	P=0.496	P=0.496
COCH-ARM / FISHERS	P=1.000	P=0.500
MAX-ISO-POLY-3	P=0.409	P=0.409
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.000**	
CURR VS HC ALL RTES	P=0.000**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Hemangiosarcoma		
TUMOR RATES		
	#	#
OVERALL(a)	1/110 (1%)	2/110 (2%)
POLY-3 RATE (b)	1/100.52	2/100.63
POLY-3 PERCENT (g)	1%	2%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	1/97 (1%)	1/97 (1%)
FIRST INCIDENCE	722(T)	456(I)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	78/1556 (5%)	
STATISTICAL TESTS		
POLY 3	P=0.500	P=0.500
POLY 1.5	P=0.499	P=0.499
POLY 6	P=0.502	P=0.502
COCH-ARM / FISHERS	P=1.000	P=0.500
MAX-ISO-POLY-3	P=0.281	P=0.281
HISTCONT SAME RTE	P=0.198	P=0.425
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.404	
CURR VS HC ALL RTES	P=0.059	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Hemangiosarcoma or Hemangioma		
TUMOR RATES	#	#
OVERALL(a)	1/110 (1%)	2/110 (2%)
POLY-3 RATE (b)	1/100.52	2/100.63
POLY-3 PERCENT (g)	1%	2%
INT SACRIFICE 1	0/10 (0%)	1/10 (10%)
TERMINAL (d)	1/97 (1%)	1/97 (1%)
FIRST INCIDENCE	722(T)	456(I)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	93/1556 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.500	P=0.500
POLY 1.5	P=0.499	P=0.499
POLY 6	P=0.502	P=0.502
COCH-ARM / FISHERS	P=1.000	P=0.500
MAX-ISO-POLY-3	P=0.281	P=0.281
HISTCONT SAME RTE	P=0.198	P=0.425
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.404	
CURR VS HC ALL RTES	P=0.031*	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Histiocytic Sarcoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	
HISTCONT ALL RTES	(n)	
CURR VS HC SAME RTE	P=2010	P=2010
CURR VS HC ALL RTES	P=05121-08	P=05121-08

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type		
TUMOR RATES	#	#
OVERALL(a)	5/110 (5%)	1/110 (1%)
POLY-3 RATE (b)	5/100.52	1/99.88
POLY-3 PERCENT (g)	5%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	5/97 (5%)	1/97 (1%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	3/50 (6%)	
HC TUMORS ALL ROUTES	95/1556 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.108N	P=0.108N
POLY 1.5	P=0.108N	P=0.108N
POLY 6	P=0.107N	P=0.107N
COCH-ARM / FISHERS	P=0.107N	P=0.106N
MAX-ISO-POLY-3	P=0.050N*	P=0.050N*
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.703	
CURR VS HC ALL RTES	P=0.538	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Malignant Tumors		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/100.52	0/99.88
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/97 (0%)	0/97 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	15/50 (30%)	
HC TUMORS ALL ROUTES	598/1556 (38%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
All Organs		
Malignant and Benign Tumors		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/100.52	0/99.88
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/97 (0%)	0/97 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	31/50 (62%)	
HC TUMORS ALL ROUTES	1184/1556 (76%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 153 WEEKS**

DOSE	MALE	
	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Osteosarcoma		
TUMOR RATES	#	#
OVERALL(a)	5/110 (5%)	1/110 (1%)
POLY-3 RATE (b)	5/100.52	1/99.88
POLY-3 PERCENT (g)	5%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	5/97 (5%)	1/97 (1%)
FIRST INCIDENCE	722(T)	722(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	1/1556 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.108N	P=0.108N
POLY 1.5	P=0.108N	P=0.108N
POLY 6	P=0.107N	P=0.107N
COCH-ARM / FISHERS	P=0.107N	P=0.106N
MAX-ISO-POLY-3	P=0.050N*	P=0.050N*
HISTCONT SAME RTE	P=0.198	P=1.000
HISTCONT ALL RTES	P=0.002**	P=0.056
CURR VS HC SAME RTE	P=0.104	
CURR VS HC ALL RTES	P=0.000**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 153 WEEKS

MALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Osteosarcoma or Osteoma		
TUMOR RATES	#	#
OVERALL(a)	3/110 (3%)	1/110 (1%)
POLY-3 RATE (b)	3/100.52	1/99.88
POLY-3 PERCENT (g)	3%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	3/97 (3%)	1/97 (1%)
FIRST INCIDENCE	722	722
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	2/1556 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.309N	P=0.309N
POLY 1.5	P=0.310N	P=0.310N
POLY 6	P=0.309N	P=0.309N
COCH-ARM / FISHERS	P=0.307N	P=0.311N
MAX-ISO-POLY-3	P=0.160N	P=0.160N
HISTCONT SAME RTE	P=0.198	P=1.000
HISTCONT ALL RTES	P=0.015*	P=0.149
CURR VS HC SAME RTE	P=0.260	
CURR VS HC ALL RTES	P=0.000**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Adrenal Medulla		
Pheochromocytoma Benign		
TUMOR RATES		
OVERALL(a)	2/108 (2%)	2/110 (2%)
POLY-3 RATE (b)	2/97.22	2/97.40
POLY-3 PERCENT (g)	2.1%	2.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/91 (2%)	2/89 (2%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	0/46 (0%)	
HC TUMORS ALL ROUTES	12/855 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.692N	P=0.692N
POLY 1.5	P=0.691N	P=0.691N
POLY 6	P=0.692N	P=0.692N
COCH-ARM / FISHERS	P=0.687N	P=0.682N
MAX-ISO-POLY-3	P=0.500N	P=0.500N
HISTCONT SAME RTE	P=0.194	P=0.428
HISTCONT ALL RTES	P=0.385	P=1.000
CURR VS HC SAME RTE	P=0.273	
CURR VS HC ALL RTES	P=0.723	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Bone		
Osteosarcoma		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	2/110 (2%)
POLY-3 RATE (b)	0/98.67	2/97.99
POLY-3 PERCENT (g)	0%	2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	1/89 (1%)
FIRST INCIDENCE	---	538
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	8/1559 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.237	P=0.237
POLY 1.5	P=0.237	P=0.237
POLY 6	P=0.238	P=0.238
COCH-ARM / FISHERS	P=0.239	P=0.249
MAX-ISO-POLY-3	P=0.078	P=0.078
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	P=0.035*	P=0.075
CURR VS HC SAME RTE	P=0.124	
CURR VS HC ALL RTES	P=0.449	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Bone Marrow		
Hemangiosarcoma		
TUMOR RATES		
OVERALL(a)	3/110 (3%)	1/110 (1%)
POLY-3 RATE (b)	3/99.07	1/97.40
POLY-3 PERCENT (g)	3%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/92 (2%)	1/89 (1%)
FIRST INCIDENCE	611	723(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	6/1552 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.313N	P=0.313N
POLY 1.5	P=0.312N	P=0.312N
POLY 6	P=0.314N	P=0.314N
COCH-ARM / FISHERS	P=0.307N	P=0.311N
MAX-ISO-POLY-3	P=0.163N	P=0.163N
HISTCONT SAME RTE	P=0.190	P=1.000
HISTCONT ALL RTES	P=0.165	P=0.461
CURR VS HC SAME RTE	P=0.229	
CURR VS HC ALL RTES	P<0.001**	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Harderian Gland		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	3/110 (3%)	3/110 (3%)
POLY-3 RATE (b)	3/98.67	3/97.40
POLY-3 PERCENT (g)	3%	3.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	3/92 (3%)	3/89 (3%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	2/50 (4%)	
HC TUMORS ALL ROUTES	61/1559 (4%)	
STATISTICAL TESTS		
POLY 3	P=0.654	P=0.654
POLY 1.5	P=0.654	P=0.654
POLY 6	P=0.655	P=0.655
COCH-ARM / FISHERS	P=0.661	P=0.658N
MAX-ISO-POLY-3	P=0.494	P=0.494
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.737	
CURR VS HC ALL RTEs	P=0.533	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Harderian Gland		
Carcinoma or Adenoma		
TUMOR RATES	#	#
OVERALL(a)	3/110 (3%)	3/110 (3%)
POLY-3 RATE (b)	3/98.67	3/97.40
POLY-3 PERCENT (g)	3%	3.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	3/92 (3%)	3/89 (3%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	3/50 (6%)	
HC TUMORS ALL ROUTES	74/1559 (5%)	
STATISTICAL TESTS		
POLY 3	P=0.654	P=0.654
POLY 1.5	P=0.654	P=0.654
POLY 6	P=0.655	P=0.655
COCH-ARM / FISHERS	P=0.661	P=0.658N
MAX-ISO-POLY-3	P=0.494	P=0.494
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.368	
CURR VS HC ALL RTES	P=0.330	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Intestine Small: Jejunum		
Hemangiosarcoma		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/98.67	0/97.40
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	0/89 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	1/1559 (0%)	
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Intestine Small: Site Unspecified		
Carcinoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/98.67	0/97.40
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	0/89 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	7/1559 (0%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Intestine Small: Site Unspecified		
Hemangiosarcoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	0/110 (0%)
POLY-3 RATE (b)	0/98.67	0/97.40
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	0/89 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	1/1559 (0%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Islets, Pancreatic		
Adenoma		
TUMOR RATES		
OVERALL(a)	1/109 (1%)	2/110 (2%)
POLY-3 RATE (b)	1/97.87	2/97.48
POLY-3 PERCENT (g)	1%	2.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/92 (1%)	1/89 (1%)
FIRST INCIDENCE	723	703
HC TUMORS SAME ROUTE	1/49 (2%)	
HC TUMORS ALL ROUTES	12/1494 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.499	P=0.499
POLY 1.5	P=0.499	P=0.499
POLY 6	P=0.499	P=0.499
COCH-ARM / FISHERS	P=0.503	P=0.503
MAX-ISO-POLY-3	P=0.281	P=0.281
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	P=0.150	P=0.245
CURR VS HC SAME RTE	P=0.710	
CURR VS HC ALL RTEs	P=0.898	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Islets, Pancreatic Carcinoma		
TUMOR RATES		
OVERALL(a)	2/109 (2%)	0/110 (0%)
POLY-3 RATE (b)	2/97.87	0/97.40
POLY-3 PERCENT (g)	2%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/92 (2%)	0/89 (0%)
FIRST INCIDENCE	723(T)	---
HC TUMORS SAME ROUTE	0/49 (0%)	
HC TUMORS ALL ROUTES	3/1494 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.240N	P=0.240N
POLY 1.5	P=0.239N	P=0.239N
POLY 6	P=0.240N	P=0.240N
COCH-ARM / FISHERS	P=0.237N	P=0.247N
MAX-ISO-POLY-3	P=0.079N	P=0.079N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.270	
CURR VS HC ALL RTES	P=0.004**	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Islets, Pancreatic Carcinoma or Adenoma		
TUMOR RATES		
OVERALL(a)	3/109 (3%)	2/110 (2%)
POLY-3 RATE (b)	3/97.87	2/97.48
POLY-3 PERCENT (g)	3.1%	2.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	3/92 (3%)	1/89 (1%)
FIRST INCIDENCE	723(T)	703
HC TUMORS SAME ROUTE	1/49 (2%)	
HC TUMORS ALL ROUTES	15/1494 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.502N	P=0.502N
POLY 1.5	P=0.502N	P=0.502N
POLY 6	P=0.502N	P=0.502N
COCH-ARM / FISHERS	P=0.496N	P=0.496N
MAX-ISO-POLY-3	P=0.328N	P=0.328N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	P=0.214	P=0.339
CURR VS HC SAME RTE	P=0.762	
CURR VS HC ALL RTEs	P=0.096	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Liver		
Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	15/110 (14%)	11/110 (10%)
POLY-3 RATE (b)	15/98.67	11/97.40
POLY-3 PERCENT (g)	15.2%	11.3%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	15/92 (16%)	11/89 (12%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	3/50 (6%)	
HC TUMORS ALL ROUTES	393/1553 (25%)	
STATISTICAL TESTS		
POLY 3	P=0.276N	P=0.276N
POLY 1.5	P=0.276N	P=0.276N
POLY 6	P=0.274N	P=0.274N
COCH-ARM / FISHERS	P=0.265N	P=0.266N
MAX-ISO-POLY-3	P=0.212N	P=0.212N
HISTCONT SAME RTE	P=0.190	P=0.255
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.126	
CURR VS HC ALL RTES	P=0.011*	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
Liver		
Hepatocellular Carcinoma		
<hr/>		
TUMOR RATES		
OVERALL(a)	4/110 (4%)	4/110 (4%)
POLY-3 RATE (b)	4/98.67	4/97.40
POLY-3 PERCENT (g)	4.1%	4.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	4/92 (4%)	4/89 (4%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	184/1553 (12%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.633	P=0.633
POLY 1.5	P=0.633	P=0.633
POLY 6	P=0.634	P=0.634
COCH-ARM / FISHERS	P=0.641	P=0.639N
MAX-ISO-POLY-3	P=0.493	P=0.493
HISTCONT SAME RTE	P=0.190	P=0.420
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.563	
CURR VS HC ALL RTES	P=0.014*	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
Liver		
Hepatocellular Carcinoma or Hepatocellular Adenoma		
<hr/>		
TUMOR RATES		
OVERALL(a)	18/110 (16%)	14/110 (13%)
POLY-3 RATE (b)	18/98.67	14/97.40
POLY-3 PERCENT (g)	18.2%	14.4%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	18/92 (20%)	14/89 (16%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	4/50 (8%)	
HC TUMORS ALL ROUTES	510/1553 (33%)	
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STATISTICAL TESTS		
POLY 3	P=0.295N	P=0.295N
POLY 1.5	P=0.295N	P=0.295N
POLY 6	P=0.293N	P=0.293N
COCH-ARM / FISHERS	P=0.283N	P=0.283N
MAX-ISO-POLY-3	P=0.233N	P=0.233N
HISTCONT SAME RTE	P=0.189	P=0.239
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.120	
CURR VS HC ALL RTES	P<0.001**	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Liver		
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma		
TUMOR RATES		
OVERALL(a)	18/110 (16%)	14/110 (13%)
POLY-3 RATE (b)	18/98.67	14/97.40
POLY-3 PERCENT (g)	18.2%	14.4%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	18/92 (20%)	14/89 (16%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	4/50 (8%)	
HC TUMORS ALL ROUTES	510/1553 (33%)	
STATISTICAL TESTS		
POLY 3	P=0.295N	P=0.295N
POLY 1.5	P=0.295N	P=0.295N
POLY 6	P=0.293N	P=0.293N
COCH-ARM / FISHERS	P=0.283N	P=0.283N
MAX-ISO-POLY-3	P=0.233N	P=0.233N
HISTCONT SAME RTE	P=0.189	P=0.239
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.120	
CURR VS HC ALL RTES	P<0.001**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Lung		
Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	5/110 (5%)	6/110 (5%)
POLY-3 RATE (b)	5/99.22	6/97.62
POLY-3 PERCENT (g)	5%	6.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	4/92 (4%)	5/89 (6%)
FIRST INCIDENCE	555	666
HC TUMORS SAME ROUTE	6/50 (12%)	
HC TUMORS ALL ROUTES	91/1551 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.489	P=0.489
POLY 1.5	P=0.490	P=0.490
POLY 6	P=0.489	P=0.489
COCH-ARM / FISHERS	P=1.000	P=0.500
MAX-ISO-POLY-3	P=0.369	P=0.369
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.096	
CURR VS HC ALL RTEs	P=0.551	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Lung		
Alveolar/Bronchiolar Carcinoma		
TUMOR RATES		
OVERALL(a)	6/110 (5%)	2/110 (2%)
POLY-3 RATE (b)	6/99.02	2/97.40
POLY-3 PERCENT (g)	6.1%	2.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	5/92 (5%)	2/89 (2%)
FIRST INCIDENCE	628	723(T)
HC TUMORS SAME ROUTE	2/50 (4%)	
HC TUMORS ALL ROUTES	40/1551 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.145N	P=0.145N
POLY 1.5	P=0.144N	P=0.144N
POLY 6	P=0.145N	P=0.145N
COCH-ARM / FISHERS	P=0.140N	P=0.140N
MAX-ISO-POLY-3	P=0.080N	P=0.080N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.652	
CURR VS HC ALL RTES	P=0.078	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Lung		
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	11/110 (10%)	8/110 (7%)
POLY-3 RATE (b)	11/99.57	8/97.62
POLY-3 PERCENT (g)	11%	8.2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	9/92 (10%)	7/89 (8%)
FIRST INCIDENCE	555	666
HC TUMORS SAME ROUTE	8/50 (16%)	
HC TUMORS ALL ROUTES	128/1551 (8%)	
STATISTICAL TESTS		
POLY 3	P=0.331N	P=0.331N
POLY 1.5	P=0.329N	P=0.329N
POLY 6	P=0.333N	P=0.333N
COCH-ARM / FISHERS	P=0.316N	P=0.316N
MAX-ISO-POLY-3	P=0.251N	P=0.251N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.325	
CURR VS HC ALL RTES	P=0.539	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
Ovary		
Adenoma		
<hr/>		
TUMOR RATES		
OVERALL(a)	0/109 (0%)	2/109 (2%)
POLY-3 RATE (b)	0/97.67	2/96.40
POLY-3 PERCENT (g)	0%	2.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/91 (0%)	2/88 (2%)
FIRST INCIDENCE	---	723(T)
HC TUMORS SAME ROUTE	0/49 (0%)	
HC TUMORS ALL ROUTES	8/1524 (1%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.236	P=0.236
POLY 1.5	P=0.236	P=0.236
POLY 6	P=0.236	P=0.236
COCH-ARM / FISHERS	P=0.239	P=0.249
MAX-ISO-POLY-3	P=0.078	P=0.078
HISTCONT SAME RTE	P=0.190	P=0.412
HISTCONT ALL RTES	P=0.061	P=0.110
CURR VS HC SAME RTE	P=1.000	
CURR VS HC ALL RTES	P=0.464	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
Ovary		
Cystadenoma		
<hr/>		
TUMOR RATES		
OVERALL(a)	1/109 (1%)	2/109 (2%)
POLY-3 RATE (b)	1/97.67	2/96.40
POLY-3 PERCENT (g)	1%	2.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/91 (1%)	2/88 (2%)
FIRST INCIDENCE	723(T)	723
HC TUMORS SAME ROUTE	0/49 (0%)	
HC TUMORS ALL ROUTES	33/1524 (2%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.495	P=0.495
POLY 1.5	P=0.496	P=0.496
POLY 6	P=0.496	P=0.496
COCH-ARM / FISHERS	P=1.000	P=0.500
MAX-ISO-POLY-3	P=0.278	P=0.278
HISTCONT SAME RTE	P=0.190	P=0.412
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.292	
CURR VS HC ALL RTES	P=0.380	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Pituitary Gland: Pars Distalis or Unspecified Site		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	3/98 (3%)	3/105 (3%)
POLY-3 RATE (b)	3/87.20	3/92.40
POLY-3 PERCENT (g)	3.4%	3.2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	3/81 (4%)	3/84 (4%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	5/46 (11%)	
HC TUMORS ALL ROUTES	220/1491 (15%)	
STATISTICAL TESTS		
POLY 3	P=0.634N	P=0.634N
POLY 1.5	P=0.634N	P=0.634N
POLY 6	P=0.633N	P=0.633N
COCH-ARM / FISHERS	P=0.629N	P=0.625N
MAX-ISO-POLY-3	P=0.472N	P=0.472N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.069	
CURR VS HC ALL RTEs	P=0.002**	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Pituitary Gland: Pars Intermedia		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	5/98 (5%)	2/105 (2%)
POLY-3 RATE (b)	5/87.20	2/92.40
POLY-3 PERCENT (g)	5.7%	2.2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	5/81 (6%)	2/84 (2%)
FIRST INCIDENCE	723(T)	723
HC TUMORS SAME ROUTE	0/46 (0%)	
HC TUMORS ALL ROUTES	6/1491 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.198N	P=0.198N
POLY 1.5	P=0.198N	P=0.198N
POLY 6	P=0.197N	P=0.197N
COCH-ARM / FISHERS	P=0.194N	P=0.195N
MAX-ISO-POLY-3	P=0.112N	P=0.112N
HISTCONT SAME RTE	P=0.191	P=0.417
HISTCONT ALL RTES	P=0.021*	P=0.043*
CURR VS HC SAME RTE	P=0.087	
CURR VS HC ALL RTES	P=0.000**	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
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)	0/110 (0%)	2/110 (2%)
POLY-3 RATE (b)	0/98.67	2/97.40
POLY-3 PERCENT (g)	0%	2.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	2/89 (2%)
FIRST INCIDENCE	---	723(T)
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	3/1559 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.236	P=0.236
POLY 1.5	P=0.236	P=0.236
POLY 6	P=0.236	P=0.236
COCH-ARM / FISHERS	P=0.239	P=0.249
MAX-ISO-POLY-3	P=0.078	P=0.078
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	P<0.001**	P=0.002**
CURR VS HC SAME RTE	P=0.131	
CURR VS HC ALL RTES	P=0.508	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Skin		
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma		
TUMOR RATES	#	#
OVERALL(a)	5/110 (5%)	5/110 (5%)
POLY-3 RATE (b)	5/99.26	5/97.40
POLY-3 PERCENT (g)	5%	5.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	4/92 (4%)	5/89 (6%)
FIRST INCIDENCE	537	723
HC TUMORS SAME ROUTE	2/50 (4%)	
HC TUMORS ALL ROUTES	39/1559 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.615	P=0.615
POLY 1.5	P=0.617	P=0.617
POLY 6	P=0.614	P=0.614
COCH-ARM / FISHERS	P=0.627	P=0.626N
MAX-ISO-POLY-3	P=0.488	P=0.488
HISTCONT SAME RTE	P=0.189	P=1.000
HISTCONT ALL RTES	P=0.046*	P=0.059
CURR VS HC SAME RTE	P=0.819	
CURR VS HC ALL RTES	P=0.196	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Skin		
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma		
TUMOR RATES	#	#
OVERALL(a)	5/110 (5%)	5/110 (5%)
POLY-3 RATE (b)	5/99.26	5/97.40
POLY-3 PERCENT (g)	5%	5.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	4/92 (4%)	5/89 (6%)
FIRST INCIDENCE	537	723
HC TUMORS SAME ROUTE	2/50 (4%)	
HC TUMORS ALL ROUTES	38/1559 (2%)	
STATISTICAL TESTS		
POLY 3	P=0.615	P=0.615
POLY 1.5	P=0.617	P=0.617
POLY 6	P=0.614	P=0.614
COCH-ARM / FISHERS	P=0.627	P=0.626N
MAX-ISO-POLY-3	P=0.488	P=0.488
HISTCONT SAME RTE	P=0.189	P=1.000
HISTCONT ALL RTES	P=0.038*	P=0.050*
CURR VS HC SAME RTE	P=0.819	
CURR VS HC ALL RTES	P=0.177	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
Skin		
Sarcoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	4/110 (4%)	5/110 (5%)
POLY-3 RATE (b)	4/99.26	5/97.40
POLY-3 PERCENT (g)	4%	5.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	3/92 (3%)	5/89 (6%)
FIRST INCIDENCE	537	723
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	11/1559 (1%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.488	P=0.488
POLY 1.5	P=0.490	P=0.490
POLY 6	P=0.487	P=0.487
COCH-ARM / FISHERS	P=1.000	P=0.500
MAX-ISO-POLY-3	P=0.357	P=0.357
HISTCONT SAME RTE	P=0.190	P=0.322
HISTCONT ALL RTES	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.568	
CURR VS HC ALL RTES	P=0.002**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Spleen		
Hemangiosarcoma		
TUMOR RATES		
OVERALL(a)	1/110 (1%)	3/110 (3%)
POLY-3 RATE (b)	1/99.07	3/97.40
POLY-3 PERCENT (g)	1%	3.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	3/89 (3%)
FIRST INCIDENCE	611	723(T)
HC TUMORS SAME ROUTE	0/49 (0%)	
HC TUMORS ALL ROUTES	23/1544 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.301	P=0.301
POLY 1.5	P=0.302	P=0.302
POLY 6	P=0.300	P=0.300
COCH-ARM / FISHERS	P=0.307	P=0.311
MAX-ISO-POLY-3	P=0.155	P=0.155
HISTCONT SAME RTE	P=0.191	P=0.320
HISTCONT ALL RTES	P=0.187	P=0.245
CURR VS HC SAME RTE	P=0.296	
CURR VS HC ALL RTES	P=0.622	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Stomach, Forestomach		
Squamous Cell Papilloma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	1/110 (1%)	0/110 (0%)
POLY-3 RATE (b)	1/98.67	0/97.40
POLY-3 PERCENT (g)	1%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	1/92 (1%)	0/89 (0%)
FIRST INCIDENCE	723(T)	---
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	12/1559 (1%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	(n)
HISTCONT ALL RTES	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTES	(n)	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Thyroid Gland: Follicular Cell		
Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%
INT SACRIFICE 1	0/0 (0%)	0/0 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE	(n)	
HISTCONT ALL RTES	(n)	
CURR VS HC SAME RTE	P=2010	P=2010
CURR VS HC ALL RTES	P=05121-08	P=05121-08

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Thyroid Gland: Follicular Cell Carcinoma or Adenoma		
TUMOR RATES	#	#
OVERALL(a)	2/110 (2%)	0/109 (0%)
POLY-3 RATE (b)	2/98.67	0/96.40
POLY-3 PERCENT (g)	2%	0%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/92 (2%)	0/88 (0%)
FIRST INCIDENCE	723(T)	---
HC TUMORS SAME ROUTE	4/50 (8%)	
HC TUMORS ALL ROUTES	49/1542 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.244N	P=0.244N
POLY 1.5	P=0.244N	P=0.244N
POLY 6	P=0.244N	P=0.244N
COCH-ARM / FISHERS	P=0.241N	P=0.251N
MAX-ISO-POLY-3	P=0.082N	P=0.082N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.063	
CURR VS HC ALL RTEs	P=0.433	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
Uterus		
Polyp Stromal		
TUMOR RATES	#	#
OVERALL(a)	2/110 (2%)	1/109 (1%)
POLY-3 RATE (b)	2/98.67	1/96.40
POLY-3 PERCENT (g)	2%	1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/92 (2%)	1/88 (1%)
FIRST INCIDENCE	723(T)	723(T)
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	41/1559 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.508N	P=0.508N
POLY 1.5	P=0.508N	P=0.508N
POLY 6	P=0.508N	P=0.508N
COCH-ARM / FISHERS	P=0.503N	P=0.503N
MAX-ISO-POLY-3	P=0.290N	P=0.290N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.940	
CURR VS HC ALL RTEs	P=0.607	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Benign Tumors		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	2/110 (2%)
POLY-3 RATE (b)	0/98.67	2/97.99
POLY-3 PERCENT (g)	0%	2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	1/89 (1%)
FIRST INCIDENCE	---	538
HC TUMORS SAME ROUTE	24/50 (48%)	
HC TUMORS ALL ROUTES	788/1559 (51%)	
STATISTICAL TESTS		
POLY 3	P=0.237	P=0.237
POLY 1.5	P=0.237	P=0.237
POLY 6	P=0.238	P=0.238
COCH-ARM / FISHERS	P=0.239	P=0.249
MAX-ISO-POLY-3	P=0.078	P=0.078
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.000**	
CURR VS HC ALL RTES	P=0.000**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
<hr/>		
All Organs		
Hemangiosarcoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	1/110 (1%)	4/110 (4%)
POLY-3 RATE (b)	1/99.22	4/97.40
POLY-3 PERCENT (g)	1%	4.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	4/89 (4%)
FIRST INCIDENCE	555	723(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	53/1559 (3%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.177	P=0.177
POLY 1.5	P=0.178	P=0.178
POLY 6	P=0.176	P=0.176
COCH-ARM / FISHERS	P=0.183	P=0.185
MAX-ISO-POLY-3	P=0.086	P=0.086
HISTCONT SAME RTE	P=0.189	P=0.274
HISTCONT ALL RTES	P=0.442	P=1.000
CURR VS HC SAME RTE	P=0.296	
CURR VS HC ALL RTES	P=0.150	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Hemangiosarcoma or Hemangioma		
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TUMOR RATES	#	#
OVERALL(a)	3/110 (3%)	3/110 (3%)
POLY-3 RATE (b)	3/99.07	3/97.40
POLY-3 PERCENT (g)	3%	3.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/92 (2%)	3/89 (3%)
FIRST INCIDENCE	611	723(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	82/1559 (5%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.652	P=0.652
POLY 1.5	P=0.653	P=0.653
POLY 6	P=0.652	P=0.652
COCH-ARM / FISHERS	P=0.661	P=0.658N
MAX-ISO-POLY-3	P=0.492	P=0.492
HISTCONT SAME RTE	P=0.190	P=0.317
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.229	
CURR VS HC ALL RTES	P=0.238	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Histiocytic Sarcoma		
TUMOR RATES	#	#
OVERALL(a)	3/110 (3%)	3/110 (3%)
POLY-3 RATE (b)	3/99.07	3/97.40
POLY-3 PERCENT (g)	3%	3.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	2/92 (2%)	3/89 (3%)
FIRST INCIDENCE	611	723(T)
HC TUMORS SAME ROUTE	0/50 (0%)	
HC TUMORS ALL ROUTES	40/1559 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.652	P=0.652
POLY 1.5	P=0.653	P=0.653
POLY 6	P=0.652	P=0.652
COCH-ARM / FISHERS	P=0.661	P=0.658N
MAX-ISO-POLY-3	P=0.492	P=0.492
HISTCONT SAME RTE	P=0.190	P=0.317
HISTCONT ALL RTES	P=0.457	P=1.000
CURR VS HC SAME RTE	P=0.229	
CURR VS HC ALL RTES	P=0.923	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type		
TUMOR RATES	#	#
OVERALL(a)	7/110 (6%)	8/110 (7%)
POLY-3 RATE (b)	7/100.10	8/98.30
POLY-3 PERCENT (g)	7%	8.1%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	4/92 (4%)	5/89 (6%)
FIRST INCIDENCE	492	597
HC TUMORS SAME ROUTE	8/50 (16%)	
HC TUMORS ALL ROUTES	265/1559 (17%)	
STATISTICAL TESTS		
POLY 3	P=0.486	P=0.486
POLY 1.5	P=0.487	P=0.487
POLY 6	P=0.486	P=0.486
COCH-ARM / FISHERS	P=1.000	P=0.500
MAX-ISO-POLY-3	P=0.382	P=0.382
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.059	
CURR VS HC ALL RTES	P=0.004**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Malignant Tumors		
TUMOR RATES		
	#	#
OVERALL(a)	34/110 (31%)	28/110 (25%)
POLY-3 RATE (b)	34/99.77	28/97.70
POLY-3 PERCENT (g)	34.1%	28.7%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	32/92 (35%)	26/89 (29%)
FIRST INCIDENCE	555	666
HC TUMORS SAME ROUTE	16/50 (32%)	
HC TUMORS ALL ROUTES	621/1559 (40%)	
STATISTICAL TESTS		
POLY 3	P=0.251N	P=0.251N
POLY 1.5	P=0.248N	P=0.248N
POLY 6	P=0.253N	P=0.253N
COCH-ARM / FISHERS	P=0.227N	P=0.227N
MAX-ISO-POLY-3	P=0.208N	P=0.208N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.938	
CURR VS HC ALL RTEs	P=0.112	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Malignant and Benign Tumors		
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TUMOR RATES	#	#
OVERALL(a)	43/110 (39%)	38/110 (35%)
POLY-3 RATE (b)	43/101.96	38/99.60
POLY-3 PERCENT (g)	42.2%	38.2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	36/92 (39%)	31/89 (35%)
FIRST INCIDENCE	492	538
HC TUMORS SAME ROUTE	32/50 (64%)	
HC TUMORS ALL ROUTES	1111/1559 (71%)	
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STATISTICAL TESTS		
POLY 3	P=0.330N	P=0.330N
POLY 1.5	P=0.322N	P=0.322N
POLY 6	P=0.335N	P=0.335N
COCH-ARM / FISHERS	P=0.288N	P=0.288N
MAX-ISO-POLY-3	P=0.281N	P=0.281N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.006**	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:36:54
First Dose M/F: NA / NA
Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 155 WEEKS

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Osteosarcoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	16/110 (15%)	16/110 (15%)
POLY-3 RATE (b)	16/98.67	16/98.11
POLY-3 PERCENT (g)	16.2%	16.3%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	16/92 (17%)	13/89 (15%)
FIRST INCIDENCE	723(T)	561
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	8/1559 (1%)	
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STATISTICAL TESTS		
POLY 3	P=0.570	P=0.570
POLY 1.5	P=0.566	P=0.566
POLY 6	P=0.577	P=0.577
COCH-ARM / FISHERS	P=0.576	P=0.576N
MAX-ISO-POLY-3	P=0.493	P=0.493
HISTCONT SAME RTE	P=0.181	P=0.191
HISTCONT ALL RTES	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.011*	
CURR VS HC ALL RTES	P=0.000**	

Experiment Number: 05121-08
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: Scopolamine hydrobromide trihydrate
 CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
 Time Report Requested: 06:36:54
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 155 WEEKS**

FEMALE		
DOSE	0 MG/KG 20%/36M	25 MG/KG104/WEEK
All Organs		
Osteosarcoma or Osteoma		
TUMOR RATES	#	#
OVERALL(a)	0/110 (0%)	2/110 (2%)
POLY-3 RATE (b)	0/98.67	2/97.99
POLY-3 PERCENT (g)	0%	2%
INT SACRIFICE 1	0/10 (0%)	0/10 (0%)
TERMINAL (d)	0/92 (0%)	1/89 (1%)
FIRST INCIDENCE	---	538
HC TUMORS SAME ROUTE	1/50 (2%)	
HC TUMORS ALL ROUTES	9/1559 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.237	P=0.237
POLY 1.5	P=0.237	P=0.237
POLY 6	P=0.238	P=0.238
COCH-ARM / FISHERS	P=0.239	P=0.249
MAX-ISO-POLY-3	P=0.078	P=0.078
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	P=0.054	P=0.108
CURR VS HC SAME RTE	P=0.124	
CURR VS HC ALL RTES	P=0.417	

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Scopolamine hydrobromide trihydrate
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First Dose M/F: NA / NA
Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) 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 Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

**** END OF REPORT ****