

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

Custom Report with Litter-Based Statistics

NTP Study Number: C10987
Lock Date: 01/15/2015
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 Medulla
Brain
Heart
Islets, Pancreatic
Liver
Pancreas
Pituitary Gland
Testis
Thyroid Gland

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF DIBUTYL PHTHALATE

MALE RATS

Organ

Islets, Pancreatic
Pancreas

Pituitary Gland: Pars Distalis or Unspecified Site

Skin

All Organs

Morphology

Adenoma

Adenoma

Carcinoma or Adenoma

Adenoma

Carcinoma or Adenoma

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

Keratoacanthoma

Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma

Squamous Cell Papilloma, Papilloma, or Keratoacanthoma

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

Benign Tumors

Malignant Tumors

Malignant and Benign Tumors

FEMALE RATS

Organ

Mammary Gland

Thyroid Gland: C-Cell

Uterus

All Organs

Morphology

Fibroadenoma

Fibroma, Fibroadenoma or Adenoma

Fibroma, Fibroadenoma, Carcinoma, or Adenoma

Adenoma

Polyp Stromal

Malignant Tumors

Malignant and Benign Tumors

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Medulla					
Pheochromocytoma Benign					
TUMOR RATES					
OVERALL (a)	7/49 (14%)	6/50 (12%)	11/50 (22%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	6/25 (24%)	5/25 (20%)	9/25 (36%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	7/41.32	6/44.97	11/45.32	3/43.96	3/41.36
POLY-3 PERCENT (g)	16.9%	13.3%	24.3%	6.8%	7.3%
TERMINAL (d)	3/27 (11%)	5/38 (13%)	8/31 (26%)	2/34 (6%)	3/33 (9%)
FIRST INCIDENCE	686	603	615	654	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.063N	P=0.435N	P=0.283	P=0.132N	P=0.155N
POLY 1.5	P=0.062N	P=0.455N	P=0.265	P=0.139N	P=0.160N
POLY 6	P=0.061N	P=0.405N	P=0.302	P=0.123N	P=0.144N
RAO-SCOTT	P=0.094N	P=0.456N	P=0.319	P=0.174N	P=0.195N
LITTER C-A/FISHERS	P=0.098N	P=0.500N	P=0.269	P=0.123N	P=0.232N

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Medulla					
Pheochromocytoma: Benign, Complex, Malignant, NOS					
TUMOR RATES					
OVERALL (a)	8/49 (16%)	6/50 (12%)	11/50 (22%)	4/50 (8%)	4/50 (8%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	9/25 (36%)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	8/41.32	6/44.97	11/45.32	4/43.96	4/41.36
POLY-3 PERCENT (g)	19.4%	13.3%	24.3%	9.1%	9.7%
TERMINAL (d)	4/27 (15%)	5/38 (13%)	8/31 (26%)	3/34 (9%)	4/33 (12%)
FIRST INCIDENCE	686	603	615	654	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.111N	P=0.321N	P=0.385	P=0.146N	P=0.173N
POLY 1.5	P=0.110N	P=0.341N	P=0.364	P=0.155N	P=0.180N
POLY 6	P=0.109N	P=0.293N	P=0.409	P=0.135N	P=0.160N
RAO-SCOTT	P=0.138N	P=0.347N	P=0.405	P=0.179N	P=0.204N
LITTER C-A/FISHERS	P=0.162N	P=0.371N	P=0.381	P=0.145N	P=0.248N

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Brain					
Glioma Malignant					
TUMOR RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/41.08	0/44.53	1/44.54	1/44.32	0/41.36
POLY-3 PERCENT (g)	4.9%	0%	2.3%	2.3%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	716	---	691	519	---
STATISTICAL TESTS					
POLY 3	P=0.314N	P=0.219N	P=0.472N	P=0.474N	P=0.235N
POLY 1.5	P=0.311N	P=0.225N	P=0.479N	P=0.481N	P=0.238N
POLY 6	P=0.317N	P=0.211N	P=0.465N	P=0.464N	P=0.228N
RAO-SCOTT	P=0.354N	P=0.296N	P=0.515N	P=0.516N	P=0.303N
LITTER C-A/FISHERS	P=0.295N	P=0.245N	P=0.500N	P=0.500N	P=0.245N

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Brain					
Oligodendroglioma, Glioma, or Astrocytoma					
TUMOR RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	2/41.08	0/44.53	1/44.54	1/44.32	1/42.19
POLY-3 PERCENT (g)	4.9%	0%	2.3%	2.3%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	716	---	691	519	400
STATISTICAL TESTS					
POLY 3	P=0.662	P=0.219N	P=0.472N	P=0.474N	P=0.491N
POLY 1.5	P=0.662N	P=0.225N	P=0.479N	P=0.481N	P=0.498N
POLY 6	P=0.662	P=0.211N	P=0.465N	P=0.464N	P=0.479N
RAO-SCOTT	P=0.649N	P=0.250N	P=0.483N	P=0.485N	P=0.495N
LITTER C-A/FISHERS	P=0.653N	P=0.245N	P=0.500N	P=0.500N	P=0.500N

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Heart					
Schwannoma Malignant					
TUMOR RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	2/41.30	0/44.53	0/44.39	0/43.68	1/41.36
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	686	---	---	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.608	P=0.221N	P=0.221N	P=0.225N	P=0.500N
POLY 1.5	P=0.612	P=0.225N	P=0.225N	P=0.228N	P=0.503N
POLY 6	P=0.605	P=0.213N	P=0.219N	P=0.221N	P=0.491N
RAO-SCOTT	P=0.649	P=0.353N	P=0.353N	P=0.354N	P=0.565N
LITTER C-A/FISHERS	P=0.628	P=0.245N	P=0.245N	P=0.245N	P=0.500N

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Small: Jejunum Leiomyoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Small: Site Unspecified Leiomyoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Islets, Pancreatic Adenoma					
TUMOR RATES					
OVERALL (a)	4/49 (8%)	7/50 (14%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	4/25 (16%)	6/25 (24%)	3/25 (12%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	4/41.03	7/45.63	3/44.39	0/43.68	2/41.36
POLY-3 PERCENT (g)	9.8%	15.3%	6.8%	0%	4.8%
TERMINAL (d)	3/27 (11%)	5/38 (13%)	3/31 (10%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	722	555	729 (T)	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.119N	P=0.324	P=0.457N	P=0.052N	P=0.333N
POLY 1.5	P=0.120N	P=0.303	P=0.467N	P=0.054N	P=0.340N
POLY 6	P=0.115N	P=0.358	P=0.447N	P=0.049N*	P=0.318N
RAO-SCOTT	P=0.164N	P=0.359	P=0.479N	P=0.088N	P=0.364N
LITTER C-A/FISHERS	P=0.140N	P=0.363	P=0.500N	P=0.055N	P=0.334N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	1/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	2.3%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	1/31 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatocellular Carcinoma or Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.25	0/44.53	1/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	2.4%	0%	2.3%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	1/31 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	661	---	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

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Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.25	0/44.53	1/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	2.4%	0%	2.3%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	1/31 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	661	---	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Fibroadenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	1/41.00	1/44.53	1/44.39	3/43.68	3/41.36
POLY-3 PERCENT (g)	2.4%	2.3%	2.3%	6.9%	7.3%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	1/31 (3%)	3/34 (9%)	3/33 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.142	P=0.742N	P=0.743N	P=0.328	P=0.308
POLY 1.5	P=0.142	P=0.748N	P=0.747N	P=0.322	P=0.303
POLY 6	P=0.145	P=0.733N	P=0.739N	P=0.337	P=0.319
RAO-SCOTT	P=0.171	P=0.738N	P=0.738N	P=0.356	P=0.333
LITTER C-A/FISHERS	P=0.152	P=0.755	P=0.755	P=0.305	P=0.305

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland					
Fibroma, Fibroadenoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	1/41.00	1/44.53	1/44.39	3/43.68	3/41.36
POLY-3 PERCENT (g)	2.4%	2.3%	2.3%	6.9%	7.3%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	1/31 (3%)	3/34 (9%)	3/33 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.142	P=0.742N	P=0.743N	P=0.328	P=0.308
POLY 1.5	P=0.142	P=0.748N	P=0.747N	P=0.322	P=0.303
POLY 6	P=0.145	P=0.733N	P=0.739N	P=0.337	P=0.319
RAO-SCOTT	P=0.171	P=0.738N	P=0.738N	P=0.356	P=0.333
LITTER C-A/FISHERS	P=0.152	P=0.755	P=0.755	P=0.305	P=0.305

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland					
Fibroma, Fibroadenoma, Carcinoma, or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	1/41.00	1/44.53	1/44.39	3/43.68	3/41.36
POLY-3 PERCENT (g)	2.4%	2.3%	2.3%	6.9%	7.3%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	1/31 (3%)	3/34 (9%)	3/33 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.142	P=0.742N	P=0.743N	P=0.328	P=0.308
POLY 1.5	P=0.142	P=0.748N	P=0.747N	P=0.322	P=0.303
POLY 6	P=0.145	P=0.733N	P=0.739N	P=0.337	P=0.319
RAO-SCOTT	P=0.171	P=0.738N	P=0.738N	P=0.356	P=0.333
LITTER C-A/FISHERS	P=0.152	P=0.755	P=0.755	P=0.305	P=0.305

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas Adenoma					
TUMOR RATES					
OVERALL (a)	4/49 (8%)	4/50 (8%)	3/50 (6%)	1/50 (2%)	10/49 (20%)
LITTERS (b)	4/25 (16%)	4/25 (16%)	3/25 (12%)	1/25 (4%)	9/25 (36%)
POLY-3 RATE (c)	4/41.34	4/45.07	3/44.39	1/43.68	10/41.42
POLY-3 PERCENT (g)	9.7%	8.9%	6.8%	2.3%	24.1%
TERMINAL (d)	2/27 (7%)	3/38 (8%)	3/31 (10%)	1/34 (3%)	8/33 (24%)
FIRST INCIDENCE	676	565	729 (T)	729 (T)	684
STATISTICAL TESTS					
POLY 3	P=0.005**	P=0.595N	P=0.461N	P=0.162N	P=0.069
POLY 1.5	P=0.005**	P=0.610N	P=0.469N	P=0.166N	P=0.066
POLY 6	P=0.005**	P=0.573N	P=0.455N	P=0.156N	P=0.078
RAO-SCOTT	P=0.010**	P=0.595N	P=0.472N	P=0.192N	P=0.094
LITTER C-A/FISHERS	P=0.015*	P=0.649	P=0.500N	P=0.174N	P=0.098

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas Carcinoma					
TUMOR RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.76	0/44.53	0/44.39	0/43.68	0/41.19
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	611	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.348N	P=0.223N	P=0.224N	P=0.227N	P=0.240N
POLY 1.5	P=0.345N	P=0.227N	P=0.226N	P=0.229N	P=0.243N
POLY 6	P=0.352N	P=0.217N	P=0.222N	P=0.225N	P=0.235N
RAO-SCOTT	P=0.478N	P=0.389N	P=0.389N	P=0.390N	P=0.396N
LITTER C-A/FISHERS	P=0.335N	P=0.245N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	6/49 (12%)	4/50 (8%)	3/50 (6%)	1/50 (2%)	10/49 (20%)
LITTERS (b)	6/25 (24%)	4/25 (16%)	3/25 (12%)	1/25 (4%)	9/25 (36%)
POLY-3 RATE (c)	6/42.10	4/45.07	3/44.39	1/43.68	10/41.42
POLY-3 PERCENT (g)	14.3%	8.9%	6.8%	2.3%	24.1%
TERMINAL (d)	2/27 (7%)	3/38 (8%)	3/31 (10%)	1/34 (3%)	8/33 (24%)
FIRST INCIDENCE	611	565	729 (T)	729 (T)	684
STATISTICAL TESTS					
POLY 3	P=0.014*	P=0.327N	P=0.215N	P=0.049N*	P=0.191
POLY 1.5	P=0.015*	P=0.338N	P=0.219N	P=0.051N	P=0.187
POLY 6	P=0.015*	P=0.311N	P=0.216N	P=0.048N*	P=0.201
RAO-SCOTT	P=0.024*	P=0.349N	P=0.243N	P=0.072N	P=0.217
LITTER C-A/FISHERS	P=0.042*	P=0.363N	P=0.232N	P=0.049N*	P=0.269

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma					
TUMOR RATES					
OVERALL (a)	15/48 (31%)	10/50 (20%)	12/50 (24%)	14/50 (28%)	6/50 (12%)
LITTERS (b)	14/25 (56%)	10/25 (40%)	11/25 (44%)	14/25 (56%)	5/25 (20%)
POLY-3 RATE (c)	15/41.11	10/44.63	12/45.78	14/44.10	6/41.80
POLY-3 PERCENT (g)	36.5%	22.4%	26.2%	31.8%	14.4%
TERMINAL (d)	11/27 (41%)	9/38 (24%)	7/31 (23%)	13/34 (38%)	3/33 (9%)
FIRST INCIDENCE	630	706	585	609	654
STATISTICAL TESTS					
POLY 3	P=0.052N	P=0.113N	P=0.210N	P=0.407N	P=0.017N*
POLY 1.5	P=0.053N	P=0.125N	P=0.233N	P=0.423N	P=0.019N*
POLY 6	P=0.049N*	P=0.097N	P=0.187N	P=0.391N	P=0.013N*
RAO-SCOTT	P=0.047N*	P=0.110N	P=0.204N	P=0.396N	P=0.018N*
LITTER C-A/FISHERS	P=0.015N*	P=0.198N	P=0.286N	P=0.612	P=0.009N**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	15/48 (31%)	10/50 (20%)	12/50 (24%)	14/50 (28%)	6/50 (12%)
LITTERS (b)	14/25 (56%)	10/25 (40%)	11/25 (44%)	14/25 (56%)	5/25 (20%)
POLY-3 RATE (c)	15/41.11	10/44.63	12/45.78	14/44.10	6/41.80
POLY-3 PERCENT (g)	36.5%	22.4%	26.2%	31.8%	14.4%
TERMINAL (d)	11/27 (41%)	9/38 (24%)	7/31 (23%)	13/34 (38%)	3/33 (9%)
FIRST INCIDENCE	630	706	585	609	654
STATISTICAL TESTS					
POLY 3	P=0.052N	P=0.113N	P=0.210N	P=0.407N	P=0.017N*
POLY 1.5	P=0.053N	P=0.125N	P=0.233N	P=0.423N	P=0.019N*
POLY 6	P=0.049N*	P=0.097N	P=0.187N	P=0.391N	P=0.013N*
RAO-SCOTT	P=0.047N*	P=0.110N	P=0.204N	P=0.396N	P=0.018N*
LITTER C-A/FISHERS	P=0.015N*	P=0.198N	P=0.286N	P=0.612	P=0.009N**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
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)	9/49 (18%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	9/25 (36%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	9/41.54	0/44.53	2/44.54	0/43.68	2/41.36
POLY-3 PERCENT (g)	21.7%	0%	4.5%	0%	4.8%
TERMINAL (d)	7/27 (26%)	0/38 (0%)	1/31 (3%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	603	---	691	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.198N	P<0.001N**	P=0.017N*	P<0.001N**	P=0.024N*
POLY 1.5	P=0.193N	P<0.001N**	P=0.019N*	P<0.001N**	P=0.026N*
POLY 6	P=0.204N	P<0.001N**	P=0.016N*	P<0.001N**	P=0.021N*
RAO-SCOTT	P=0.239N	P=0.006N**	P=0.041N*	P=0.007N**	P=0.050N*
LITTER C-A/FISHERS	P=0.179N	P<0.001N**	P=0.019N*	P<0.001N**	P=0.019N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibrolipoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	2/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	4.6%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	2/34 (6%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	729 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.711	(e)	(e)	P=0.251	(e)
POLY 1.5	P=0.711	(e)	(e)	P=0.247	(e)
POLY 6	P=0.716	(e)	(e)	P=0.257	(e)
RAO-SCOTT	P=0.751	(e)	(e)	P=0.401	(e)
LITTER C-A/FISHERS	P=0.731	(e)	(e)	P=0.245	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibroma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/49 (6%)	1/50 (2%)	1/50 (2%)	4/50 (8%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	3/41.11	1/44.56	1/44.39	4/44.04	0/41.36
POLY-3 PERCENT (g)	7.3%	2.2%	2.3%	9.1%	0%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	1/31 (3%)	2/34 (6%)	0/33 (0%)
FIRST INCIDENCE	701	722	729 (T)	666	---
STATISTICAL TESTS					
POLY 3	P=0.230N	P=0.277N	P=0.278N	P=0.538	P=0.117N
POLY 1.5	P=0.228N	P=0.285N	P=0.284N	P=0.526	P=0.120N
POLY 6	P=0.228N	P=0.263N	P=0.272N	P=0.553	P=0.111N
RAO-SCOTT	P=0.260N	P=0.330N	P=0.331N	P=0.554	P=0.169N
LITTER C-A/FISHERS	P=0.203N	P=0.305N	P=0.305N	P=0.500	P=0.117N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	4/49 (8%)	2/50 (4%)	3/50 (6%)	7/50 (14%)	2/50 (4%)
LITTERS (b)	4/25 (16%)	2/25 (8%)	3/25 (12%)	7/25 (28%)	2/25 (8%)
POLY-3 RATE (c)	4/41.36	2/44.91	3/44.39	7/44.31	2/42.70
POLY-3 PERCENT (g)	9.7%	4.5%	6.8%	15.8%	4.7%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	3/31 (10%)	4/34 (12%)	0/33 (0%)
FIRST INCIDENCE	661	632	729 (T)	654	495
STATISTICAL TESTS					
POLY 3	P=0.430N	P=0.300N	P=0.461N	P=0.301	P=0.322N
POLY 1.5	P=0.436N	P=0.311N	P=0.469N	P=0.289	P=0.333N
POLY 6	P=0.418N	P=0.283N	P=0.456N	P=0.318	P=0.305N
RAO-SCOTT	P=0.424N	P=0.310N	P=0.462N	P=0.311	P=0.328N
LITTER C-A/FISHERS	P=0.408N	P=0.334N	P=0.500N	P=0.248	P=0.334N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	4/49 (8%)	2/50 (4%)	3/50 (6%)	7/50 (14%)	2/50 (4%)
LITTERS (b)	4/25 (16%)	2/25 (8%)	3/25 (12%)	7/25 (28%)	2/25 (8%)
POLY-3 RATE (c)	4/41.36	2/44.91	3/44.39	7/44.31	2/42.70
POLY-3 PERCENT (g)	9.7%	4.5%	6.8%	15.8%	4.7%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	3/31 (10%)	4/34 (12%)	0/33 (0%)
FIRST INCIDENCE	661	632	729 (T)	654	495
STATISTICAL TESTS					
POLY 3	P=0.430N	P=0.300N	P=0.461N	P=0.301	P=0.322N
POLY 1.5	P=0.436N	P=0.311N	P=0.469N	P=0.289	P=0.333N
POLY 6	P=0.418N	P=0.283N	P=0.456N	P=0.318	P=0.305N
RAO-SCOTT	P=0.424N	P=0.310N	P=0.462N	P=0.311	P=0.328N
LITTER C-A/FISHERS	P=0.408N	P=0.334N	P=0.500N	P=0.248	P=0.334N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibrosarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	1/50 (2%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	2/25 (8%)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	1/41.25	1/44.88	2/44.39	3/43.96	2/42.70
POLY-3 PERCENT (g)	2.4%	2.2%	4.5%	6.8%	4.7%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	2/31 (7%)	2/34 (6%)	0/33 (0%)
FIRST INCIDENCE	661	632	729 (T)	654	495
STATISTICAL TESTS					
POLY 3	P=0.417	P=0.742N	P=0.526	P=0.328	P=0.512
POLY 1.5	P=0.411	P=0.748N	P=0.520	P=0.322	P=0.504
POLY 6	P=0.428	P=0.732N	P=0.530	P=0.337	P=0.526
RAO-SCOTT	P=0.421	P=0.729N	P=0.522	P=0.336	P=0.505
LITTER C-A/FISHERS	P=0.424	P=0.755	P=0.500	P=0.305	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	1/50 (2%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	2/25 (8%)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	1/41.25	1/44.88	2/44.39	3/43.96	2/42.70
POLY-3 PERCENT (g)	2.4%	2.2%	4.5%	6.8%	4.7%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	2/31 (7%)	2/34 (6%)	0/33 (0%)
FIRST INCIDENCE	661	632	729 (T)	654	495
STATISTICAL TESTS					
POLY 3	P=0.417	P=0.742N	P=0.526	P=0.328	P=0.512
POLY 1.5	P=0.411	P=0.748N	P=0.520	P=0.322	P=0.504
POLY 6	P=0.428	P=0.732N	P=0.530	P=0.337	P=0.526
RAO-SCOTT	P=0.421	P=0.729N	P=0.522	P=0.336	P=0.505
LITTER C-A/FISHERS	P=0.424	P=0.755	P=0.500	P=0.305	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/49 (16%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	8/25 (32%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	8/41.54	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	19.3%	0%	0%	0%	0%
TERMINAL (d)	6/27 (22%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	603	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.028N*	P=0.002N**	P=0.002N**	P=0.003N**	P=0.003N**
POLY 1.5	P=0.026N*	P=0.003N**	P=0.003N**	P=0.003N**	P=0.004N**
POLY 6	P=0.029N*	P=0.002N**	P=0.002N**	P=0.002N**	P=0.003N**
RAO-SCOTT	P=0.085N	P=0.022N*	P=0.022N*	P=0.023N*	P=0.026N*
LITTER C-A/FISHERS	P=0.028N*	P=0.002N**	P=0.002N**	P=0.002N**	P=0.002N**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Lipoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	2/25 (8%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/41.00	2/44.53	2/44.39	1/43.83	2/41.36
POLY-3 PERCENT (g)	0%	4.5%	4.5%	2.3%	4.8%
TERMINAL (d)	0/27 (0%)	2/38 (5%)	2/31 (7%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	---	729 (T)	729 (T)	691	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.406	P=0.256	P=0.255	P=0.513	P=0.239
POLY 1.5	P=0.403	P=0.250	P=0.251	P=0.509	P=0.236
POLY 6	P=0.415	P=0.265	P=0.259	P=0.519	P=0.246
RAO-SCOTT	P=0.409	P=0.289	P=0.288	P=0.530	P=0.266
LITTER C-A/FISHERS	P=0.414	P=0.245	P=0.245	P=0.500	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Pilomatrixoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/49 (6%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	3/41.00	1/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	7.3%	2.3%	0%	0%	0%
TERMINAL (d)	3/27 (11%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.158N	P=0.276N	P=0.105N	P=0.107N	P=0.116N
POLY 1.5	P=0.155N	P=0.285N	P=0.108N	P=0.111N	P=0.119N
POLY 6	P=0.160N	P=0.262N	P=0.101N	P=0.103N	P=0.111N
RAO-SCOTT	P=0.241N	P=0.369N	P=0.203N	P=0.205N	P=0.211N
LITTER C-A/FISHERS	P=0.148N	P=0.305N	P=0.117N	P=0.117N	P=0.117N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Squamous Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.00	0/44.53	1/44.54	0/43.68	2/41.36
POLY-3 PERCENT (g)	0%	0%	2.3%	0%	4.8%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	---	---	691	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.078	(e)	P=0.516	(e)	P=0.239
POLY 1.5	P=0.078	(e)	P=0.512	(e)	P=0.236
POLY 6	P=0.079	(e)	P=0.521	(e)	P=0.246
RAO-SCOTT	P=0.161	(e)	P=0.634	(e)	P=0.357
LITTER C-A/FISHERS	P=0.081	(e)	P=0.500	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/49 (16%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	8/25 (32%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	8/41.54	0/44.53	1/44.54	0/43.68	2/41.36
POLY-3 PERCENT (g)	19.3%	0%	2.3%	0%	4.8%
TERMINAL (d)	6/27 (22%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	603	---	691	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.302N	P=0.002N**	P=0.011N*	P=0.003N**	P=0.044N*
POLY 1.5	P=0.295N	P=0.003N**	P=0.012N*	P=0.003N**	P=0.046N*
POLY 6	P=0.309N	P=0.002N**	P=0.010N**	P=0.002N**	P=0.040N*
RAO-SCOTT	P=0.342N	P=0.013N*	P=0.035N*	P=0.014N*	P=0.085N
LITTER C-A/FISHERS	P=0.277N	P=0.002N**	P=0.012N*	P=0.002N**	P=0.037N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/49 (16%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	8/25 (32%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	8/41.54	0/44.53	1/44.54	0/43.68	2/41.36
POLY-3 PERCENT (g)	19.3%	0%	2.3%	0%	4.8%
TERMINAL (d)	6/27 (22%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	603	---	691	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.302N	P=0.002N**	P=0.011N*	P=0.003N**	P=0.044N*
POLY 1.5	P=0.295N	P=0.003N**	P=0.012N*	P=0.003N**	P=0.046N*
POLY 6	P=0.309N	P=0.002N**	P=0.010N**	P=0.002N**	P=0.040N*
RAO-SCOTT	P=0.342N	P=0.013N*	P=0.035N*	P=0.014N*	P=0.085N
LITTER C-A/FISHERS	P=0.277N	P=0.002N**	P=0.012N*	P=0.002N**	P=0.037N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis					
Adenoma					
TUMOR RATES					
OVERALL (a)	2/49 (4%)	5/50 (10%)	1/50 (2%)	4/47 (9%)	5/50 (10%)
LITTERS (b)	2/25 (8%)	5/25 (20%)	1/25 (4%)	4/25 (16%)	4/25 (16%)
POLY-3 RATE (c)	2/41.00	5/44.70	1/44.77	4/40.80	5/41.81
POLY-3 PERCENT (g)	4.9%	11.2%	2.2%	9.8%	12%
TERMINAL (d)	2/27 (7%)	4/38 (11%)	0/31 (0%)	4/32 (13%)	4/33 (12%)
FIRST INCIDENCE	729 (T)	685	621	729 (T)	595
STATISTICAL TESTS					
POLY 3	P=0.186	P=0.252	P=0.469N	P=0.334	P=0.223
POLY 1.5	P=0.184	P=0.241	P=0.477N	P=0.327	P=0.216
POLY 6	P=0.196	P=0.271	P=0.461N	P=0.344	P=0.239
RAO-SCOTT	P=0.214	P=0.287	P=0.492N	P=0.362	P=0.255
LITTER C-A/FISHERS	P=0.353	P=0.209	P=0.500N	P=0.334	P=0.334

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Adenoma					
TUMOR RATES					
OVERALL (a)	8/49 (16%)	10/50 (20%)	10/50 (20%)	11/50 (22%)	9/50 (18%)
LITTERS (b)	8/25 (32%)	10/25 (40%)	9/25 (36%)	11/25 (44%)	8/25 (32%)
POLY-3 RATE (c)	8/42.24	10/44.53	10/45.12	11/45.03	9/41.91
POLY-3 PERCENT (g)	18.9%	22.5%	22.2%	24.4%	21.5%
TERMINAL (d)	5/27 (19%)	10/38 (26%)	8/31 (26%)	7/34 (21%)	7/33 (21%)
FIRST INCIDENCE	506	729 (T)	512	565	621
STATISTICAL TESTS					
POLY 3	P=0.531	P=0.445	P=0.457	P=0.359	P=0.493
POLY 1.5	P=0.530	P=0.434	P=0.446	P=0.343	P=0.486
POLY 6	P=0.550	P=0.466	P=0.465	P=0.383	P=0.515
RAO-SCOTT	P=0.524	P=0.435	P=0.448	P=0.352	P=0.479
LITTER C-A/FISHERS	P=0.439N	P=0.384	P=0.500	P=0.280	P=0.619

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Carcinoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/41.00	0/44.53	0/44.39	1/43.68	0/41.36
POLY-3 PERCENT (g)	2.4%	0%	0%	2.3%	0%
TERMINAL (d)	1/27 (4%)	0/38 (0%)	0/31 (0%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	8/49 (16%)	10/50 (20%)	10/50 (20%)	12/50 (24%)	9/50 (18%)
LITTERS (b)	8/25 (32%)	10/25 (40%)	9/25 (36%)	11/25 (44%)	8/25 (32%)
POLY-3 RATE (c)	8/42.24	10/44.53	10/45.12	12/45.03	9/41.91
POLY-3 PERCENT (g)	18.9%	22.5%	22.2%	26.7%	21.5%
TERMINAL (d)	5/27 (19%)	10/38 (26%)	8/31 (26%)	8/34 (24%)	7/33 (21%)
FIRST INCIDENCE	506	729 (T)	512	565	621
STATISTICAL TESTS					
POLY 3	P=0.526	P=0.445	P=0.457	P=0.274	P=0.493
POLY 1.5	P=0.525	P=0.434	P=0.446	P=0.260	P=0.486
POLY 6	P=0.545	P=0.466	P=0.465	P=0.295	P=0.515
RAO-SCOTT	P=0.521	P=0.437	P=0.450	P=0.271	P=0.481
LITTER C-A/FISHERS	P=0.439N	P=0.384	P=0.500	P=0.280	P=0.619

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Histiocytic Sarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/49 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	0/50 (0%)	4/50 (8%)	0/50 (0%)	5/50 (10%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	4/25 (16%)	0/25 (0%)	5/25 (20%)
POLY-3 RATE (c)	1/41.82	0/44.53	4/44.75	0/43.68	5/43.18
POLY-3 PERCENT (g)	2.4%	0%	8.9%	0%	11.6%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	2/31 (7%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	409	---	652	---	231
STATISTICAL TESTS					
POLY 3	P=0.026*	P=0.487N	P=0.199	P=0.491N	P=0.108
POLY 1.5	P=0.026*	P=0.491N	P=0.195	P=0.494N	P=0.104
POLY 6	P=0.027*	P=0.480N	P=0.205	P=0.488N	P=0.117
RAO-SCOTT	P=0.058	P=0.563N	P=0.265	P=0.562N	P=0.166
LITTER C-A/FISHERS	P=0.026*	P=0.500N	P=0.174	P=0.500N	P=0.095

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant Schwannoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/49 (6%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/42.17	0/44.53	1/44.80	2/45.49	1/41.36
POLY-3 PERCENT (g)	7.1%	0%	2.2%	4.4%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	375	---	609	141	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.546N	P=0.109N	P=0.284N	P=0.465N	P=0.312N
POLY 1.5	P=0.542N	P=0.112N	P=0.288N	P=0.473N	P=0.314N
POLY 6	P=0.549N	P=0.104N	P=0.279N	P=0.457N	P=0.304N
RAO-SCOTT	P=0.545N	P=0.155N	P=0.327N	P=0.491N	P=0.346N
LITTER C-A/FISHERS	P=0.520N	P=0.117N	P=0.305N	P=0.500N	P=0.305N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Mesothelioma: Benign, Malignant, NOS					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.00	2/45.48	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	2.4%	4.4%	0%	0%	0%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	268	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.241N	P=0.536	P=0.484N	P=0.487N	P=0.498N
POLY 1.5	P=0.243N	P=0.526	P=0.488N	P=0.491N	P=0.501N
POLY 6	P=0.238N	P=0.551	P=0.481N	P=0.483N	P=0.492N
RAO-SCOTT	P=0.341N	P=0.597	P=0.599N	P=0.599N	P=0.596N
LITTER C-A/FISHERS	P=0.241N	P=0.500	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Mesothelioma: Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/49 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.00	2/45.48	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	2.4%	4.4%	0%	0%	0%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	268	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.241N	P=0.536	P=0.484N	P=0.487N	P=0.498N
POLY 1.5	P=0.243N	P=0.526	P=0.488N	P=0.491N	P=0.501N
POLY 6	P=0.238N	P=0.551	P=0.481N	P=0.483N	P=0.492N
RAO-SCOTT	P=0.341N	P=0.597	P=0.599N	P=0.599N	P=0.596N
LITTER C-A/FISHERS	P=0.241N	P=0.500	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	35/49 (71%)	33/50 (66%)	33/50 (66%)	32/50 (64%)	26/50 (52%)
LITTERS (b)	24/25 (96%)	25/25 (100%)	22/25 (88%)	22/25 (88%)	18/25 (72%)
POLY-3 RATE (c)	35/43.92	33/46.75	33/47.58	32/45.93	26/42.81
POLY-3 PERCENT (g)	79.7%	70.6%	69.4%	69.7%	60.7%
TERMINAL (d)	23/27 (85%)	26/38 (68%)	22/31 (71%)	24/34 (71%)	20/33 (61%)
FIRST INCIDENCE	506	555	512	565	595
STATISTICAL TESTS					
POLY 3	P=0.069N	P=0.216N	P=0.176N	P=0.187N	P=0.037N*
POLY 1.5	P=0.063N	P=0.265N	P=0.230N	P=0.220N	P=0.043N*
POLY 6	P=0.067N	P=0.157N	P=0.131N	P=0.152N	P=0.026N*
RAO-SCOTT	P=0.081N	P=0.239N	P=0.202N	P=0.212N	P=0.054N
LITTER C-A/FISHERS	P=0.002N**	P=0.500	P=0.305N	P=0.305N	P=0.024N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	14/49 (29%)	5/50 (10%)	9/50 (18%)	12/50 (24%)	15/50 (30%)
LITTERS (b)	11/25 (44%)	5/25 (20%)	8/25 (32%)	11/25 (44%)	13/25 (52%)
POLY-3 RATE (c)	14/44.56	5/46.39	9/45.72	12/47.95	15/46.60
POLY-3 PERCENT (g)	31.4%	10.8%	19.7%	25%	32.2%
TERMINAL (d)	4/27 (15%)	2/38 (5%)	4/31 (13%)	5/34 (15%)	6/33 (18%)
FIRST INCIDENCE	375	268	609	141	141
STATISTICAL TESTS					
POLY 3	P=0.077	P=0.013N*	P=0.148N	P=0.326N	P=0.558
POLY 1.5	P=0.071	P=0.014N*	P=0.150N	P=0.344N	P=0.536
POLY 6	P=0.086	P=0.012N*	P=0.148N	P=0.308N	P=0.588N
RAO-SCOTT	P=0.092	P=0.020N*	P=0.162N	P=0.336N	P=0.557
LITTER C-A/FISHERS	P=0.058	P=0.064N	P=0.280N	P=0.612	P=0.389

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant and Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	41/49 (84%)	36/50 (72%)	36/50 (72%)	37/50 (74%)	37/50 (74%)
LITTERS (b)	24/25 (96%)	25/25 (100%)	23/25 (92%)	23/25 (92%)	21/25 (84%)
POLY-3 RATE (c)	41/46.37	36/48.04	36/48.00	37/48.93	37/47.32
POLY-3 PERCENT (g)	88.4%	74.9%	75%	75.6%	78.2%
TERMINAL (d)	24/27 (89%)	27/38 (71%)	24/31 (77%)	25/34 (74%)	24/33 (73%)
FIRST INCIDENCE	375	268	512	141	141
STATISTICAL TESTS					
POLY 3	P=0.444N	P=0.069N	P=0.069N	P=0.079N	P=0.139N
POLY 1.5	P=0.466N	P=0.082N	P=0.083N	P=0.101N	P=0.166N
POLY 6	P=0.403N	P=0.052N	P=0.055N	P=0.061N	P=0.103N
RAO-SCOTT	P=0.452N	P=0.097N	P=0.099N	P=0.110N	P=0.171N
LITTER C-A/FISHERS	P=0.040N*	P=0.500	P=0.500N	P=0.500N	P=0.174N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Medulla					
Pheochromocytoma Benign					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	2/42.84	1/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	4.7%	2.6%	0%	0%
TERMINAL (d)	0/29 (0%)	2/37 (5%)	1/27 (4%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.297N	P=0.246	P=0.485	(e)	(e)
POLY 1.5	P=0.295N	P=0.242	P=0.490	(e)	(e)
POLY 6	P=0.296N	P=0.253	P=0.480	(e)	(e)
RAO-SCOTT	P=0.374N	P=0.356	P=0.564	(e)	(e)
LITTER C-A/FISHERS	P=0.292N	P=0.245	P=0.500	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Medulla					
Pheochromocytoma: Benign, Complex, Malignant, NOS					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	2/42.84	2/38.25	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	4.7%	5.2%	0%	0%
TERMINAL (d)	0/29 (0%)	2/37 (5%)	1/27 (4%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	730 (T)	692	---	---
STATISTICAL TESTS					
POLY 3	P=0.246N	P=0.246	P=0.221	(e)	(e)
POLY 1.5	P=0.241N	P=0.242	P=0.226	(e)	(e)
POLY 6	P=0.250N	P=0.253	P=0.217	(e)	(e)
RAO-SCOTT	P=0.321N	P=0.360	P=0.320	(e)	(e)
LITTER C-A/FISHERS	P=0.233N	P=0.245	P=0.245	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Brain					
Glioma Malignant					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/41.15	0/42.68	0/38.10	1/42.34	0/38.14
POLY-3 PERCENT (g)	2.4%	0%	0%	2.4%	0%
TERMINAL (d)	1/29 (3%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	730 (T)	---	---	388	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Brain					
Oligodendroglioma, Glioma, or Astrocytoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/41.15	0/42.68	0/38.10	1/42.34	0/38.14
POLY-3 PERCENT (g)	2.4%	0%	0%	2.4%	0%
TERMINAL (d)	1/29 (3%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	730 (T)	---	---	388	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Heart					
Schwannoma Malignant					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Small: Jejunum Leiomyoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	2/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	4.8%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	2/32 (6%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	730 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.698	(e)	(e)	P=0.239	(e)
POLY 1.5	P=0.713	(e)	(e)	P=0.238	(e)
POLY 6	P=0.680	(e)	(e)	P=0.241	(e)
RAO-SCOTT	P=0.728	(e)	(e)	P=0.376	(e)
LITTER C-A/FISHERS	P=0.731	(e)	(e)	P=0.245	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Small: Site Unspecified					
Leiomyoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	2/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	4.8%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	2/32 (6%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	730 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.698	(e)	(e)	P=0.239	(e)
POLY 1.5	P=0.713	(e)	(e)	P=0.238	(e)
POLY 6	P=0.680	(e)	(e)	P=0.241	(e)
RAO-SCOTT	P=0.728	(e)	(e)	P=0.376	(e)
LITTER C-A/FISHERS	P=0.731	(e)	(e)	P=0.245	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Islets, Pancreatic Adenoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/41.15	0/42.84	1/38.10	1/41.49	1/38.14
POLY-3 PERCENT (g)	2.4%	0%	2.6%	2.4%	2.6%
TERMINAL (d)	1/29 (3%)	0/37 (0%)	1/27 (4%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	1/42.84	2/38.10	0/41.49	1/38.14
POLY-3 PERCENT (g)	0%	2.3%	5.3%	0%	2.6%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	2/27 (7%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.611	P=0.508	P=0.220	(e)	P=0.485
POLY 1.5	P=0.623	P=0.505	P=0.226	(e)	P=0.491
POLY 6	P=0.599	P=0.514	P=0.215	(e)	P=0.479
RAO-SCOTT	P=0.613	P=0.566	P=0.279	(e)	P=0.524
LITTER C-A/FISHERS	P=0.641	P=0.500	P=0.245	(e)	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatocellular Carcinoma or Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	1/42.84	2/38.10	1/41.91	1/38.14
POLY-3 PERCENT (g)	0%	2.3%	5.3%	2.4%	2.6%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	2/27 (7%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	---	730 (T)	730 (T)	610	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.583	P=0.508	P=0.220	P=0.504	P=0.485
POLY 1.5	P=0.598	P=0.505	P=0.226	P=0.502	P=0.491
POLY 6	P=0.567	P=0.514	P=0.215	P=0.507	P=0.479
RAO-SCOTT	P=0.578	P=0.515	P=0.235	P=0.507	P=0.473
LITTER C-A/FISHERS	P=0.620	P=0.500	P=0.245	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	1/42.84	2/38.10	1/41.91	1/38.14
POLY-3 PERCENT (g)	0%	2.3%	5.3%	2.4%	2.6%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	2/27 (7%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	---	730 (T)	730 (T)	610	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.583	P=0.508	P=0.220	P=0.504	P=0.485
POLY 1.5	P=0.598	P=0.505	P=0.226	P=0.502	P=0.491
POLY 6	P=0.567	P=0.514	P=0.215	P=0.507	P=0.479
RAO-SCOTT	P=0.578	P=0.515	P=0.235	P=0.507	P=0.473
LITTER C-A/FISHERS	P=0.620	P=0.500	P=0.245	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	1/42.84	2/38.87	1/41.49	0/38.14
POLY-3 PERCENT (g)	0%	2.3%	5.2%	2.4%	0%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	1/27 (4%)	1/32 (3%)	0/29 (0%)
FIRST INCIDENCE	---	730 (T)	448	730 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.388N	P=0.508	P=0.224	P=0.502	(e)
POLY 1.5	P=0.377N	P=0.505	P=0.229	P=0.501	(e)
POLY 6	P=0.400N	P=0.514	P=0.221	P=0.504	(e)
RAO-SCOTT	P=0.406N	P=0.563	P=0.282	P=0.552	(e)
LITTER C-A/FISHERS	P=0.359N	P=0.500	P=0.245	P=0.500	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	5/50 (10%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	4/25 (16%)	2/25 (8%)	5/25 (20%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	4/41.62	2/42.84	5/39.78	2/41.49	1/39.05
POLY-3 PERCENT (g)	9.6%	4.7%	12.6%	4.8%	2.6%
TERMINAL (d)	3/29 (10%)	2/37 (5%)	2/27 (7%)	2/32 (6%)	0/29 (0%)
FIRST INCIDENCE	591	730 (T)	351	730 (T)	333
STATISTICAL TESTS					
POLY 3	P=0.156N	P=0.323N	P=0.471	P=0.338N	P=0.197N
POLY 1.5	P=0.146N	P=0.329N	P=0.482	P=0.337N	P=0.189N
POLY 6	P=0.169N	P=0.312N	P=0.465	P=0.336N	P=0.206N
RAO-SCOTT	P=0.163N	P=0.333N	P=0.467	P=0.344N	P=0.208N
LITTER C-A/FISHERS	P=0.127N	P=0.334N	P=0.500	P=0.334N	P=0.174N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	7/50 (14%)	3/50 (6%)	1/50 (2%)
LITTERS (b)	4/25 (16%)	3/25 (12%)	7/25 (28%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	4/41.62	3/42.84	7/40.55	3/41.49	1/39.05
POLY-3 PERCENT (g)	9.6%	7%	17.3%	7.2%	2.6%
TERMINAL (d)	3/29 (10%)	3/37 (8%)	3/27 (11%)	3/32 (9%)	0/29 (0%)
FIRST INCIDENCE	591	730 (T)	351	730 (T)	333
STATISTICAL TESTS					
POLY 3	P=0.101N	P=0.484N	P=0.243	P=0.502N	P=0.197N
POLY 1.5	P=0.092N	P=0.491N	P=0.250	P=0.500N	P=0.189N
POLY 6	P=0.112N	P=0.471N	P=0.240	P=0.500N	P=0.206N
RAO-SCOTT	P=0.102N	P=0.475N	P=0.246	P=0.490N	P=0.196N
LITTER C-A/FISHERS	P=0.074N	P=0.500N	P=0.248	P=0.500N	P=0.174N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Fibroadenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	33/50 (66%)	34/50 (68%)	26/50 (52%)	28/50 (56%)	20/50 (40%)
LITTERS (b)	22/25 (88%)	20/25 (80%)	19/25 (76%)	20/25 (80%)	18/25 (72%)
POLY-3 RATE (c)	33/47.08	34/47.48	26/42.47	28/47.93	20/42.77
POLY-3 PERCENT (g)	70.1%	71.6%	61.2%	58.4%	46.8%
TERMINAL (d)	19/29 (66%)	24/37 (65%)	15/27 (56%)	14/32 (44%)	11/29 (38%)
FIRST INCIDENCE	302	403	393	326	329
STATISTICAL TESTS					
POLY 3	P=0.006N**	P=0.526	P=0.249N	P=0.162N	P=0.017N*
POLY 1.5	P=0.004N**	P=0.498	P=0.197N	P=0.183N	P=0.012N*
POLY 6	P=0.011N*	P=0.586	P=0.286N	P=0.131N	P=0.024N*
RAO-SCOTT	P=0.010N**	P=0.529	P=0.265N	P=0.181N	P=0.027N*
LITTER C-A/FISHERS	P=0.193N	P=0.351N	P=0.232N	P=0.351N	P=0.145N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland					
Fibroma, Fibroadenoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	33/50 (66%)	34/50 (68%)	27/50 (54%)	29/50 (58%)	20/50 (40%)
LITTERS (b)	22/25 (88%)	20/25 (80%)	19/25 (76%)	20/25 (80%)	18/25 (72%)
POLY-3 RATE (c)	33/47.08	34/47.48	27/43.23	29/47.93	20/42.77
POLY-3 PERCENT (g)	70.1%	71.6%	62.5%	60.5%	46.8%
TERMINAL (d)	19/29 (66%)	24/37 (65%)	15/27 (56%)	15/32 (47%)	11/29 (38%)
FIRST INCIDENCE	302	403	393	326	329
STATISTICAL TESTS					
POLY 3	P=0.006N**	P=0.526	P=0.288N	P=0.219N	P=0.017N*
POLY 1.5	P=0.004N**	P=0.498	P=0.242N	P=0.244N	P=0.012N*
POLY 6	P=0.011N*	P=0.586	P=0.317N	P=0.182N	P=0.024N*
RAO-SCOTT	P=0.010N**	P=0.530	P=0.306N	P=0.241N	P=0.029N*
LITTER C-A/FISHERS	P=0.193N	P=0.351N	P=0.232N	P=0.351N	P=0.145N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland					
Fibroma, Fibroadenoma, Carcinoma, or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	35/50 (70%)	35/50 (70%)	31/50 (62%)	30/50 (60%)	21/50 (42%)
LITTERS (b)	23/25 (92%)	21/25 (84%)	21/25 (84%)	20/25 (80%)	18/25 (72%)
POLY-3 RATE (c)	35/47.55	35/47.48	31/44.71	30/47.93	21/43.68
POLY-3 PERCENT (g)	73.6%	73.7%	69.3%	62.6%	48.1%
TERMINAL (d)	20/29 (69%)	25/37 (68%)	17/27 (63%)	16/32 (50%)	11/29 (38%)
FIRST INCIDENCE	302	403	351	326	329
STATISTICAL TESTS					
POLY 3	P=0.002N**	P=0.589	P=0.409N	P=0.172N	P=0.008N**
POLY 1.5	P<0.001N**	P=0.572	P=0.363N	P=0.187N	P=0.005N**
POLY 6	P=0.004N**	P=0.554N	P=0.440N	P=0.147N	P=0.013N*
RAO-SCOTT	P=0.003N**	P=0.587	P=0.416N	P=0.188N	P=0.014N*
LITTER C-A/FISHERS	P=0.067N	P=0.334N	P=0.334N	P=0.209N	P=0.069N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.68	0/38.10	0/40.53	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas Carcinoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.68	0/38.10	0/40.53	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas					
Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.68	0/38.10	0/40.53	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma					
TUMOR RATES					
OVERALL (a)	12/50 (24%)	15/50 (30%)	12/50 (24%)	9/50 (18%)	12/50 (24%)
LITTERS (b)	11/25 (44%)	13/25 (52%)	11/25 (44%)	8/25 (32%)	9/25 (36%)
POLY-3 RATE (c)	12/41.75	15/43.85	12/38.90	9/41.53	12/39.13
POLY-3 PERCENT (g)	28.7%	34.2%	30.9%	21.7%	30.7%
TERMINAL (d)	8/29 (28%)	12/37 (32%)	8/27 (30%)	8/32 (25%)	10/29 (35%)
FIRST INCIDENCE	669	590	659	721	551
STATISTICAL TESTS					
POLY 3	P=0.504N	P=0.377	P=0.515	P=0.311N	P=0.522
POLY 1.5	P=0.468N	P=0.354	P=0.542	P=0.309N	P=0.552
POLY 6	P=0.546N	P=0.417	P=0.496	P=0.311N	P=0.493
RAO-SCOTT	P=0.507N	P=0.381	P=0.505	P=0.317N	P=0.512
LITTER C-A/FISHERS	P=0.213N	P=0.389	P=0.612	P=0.280N	P=0.387N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	13/50 (26%)	15/50 (30%)	12/50 (24%)	9/50 (18%)	13/50 (26%)
LITTERS (b)	12/25 (48%)	13/25 (52%)	11/25 (44%)	8/25 (32%)	10/25 (40%)
POLY-3 RATE (c)	13/41.75	15/43.85	12/38.90	9/41.53	13/39.24
POLY-3 PERCENT (g)	31.1%	34.2%	30.9%	21.7%	33.1%
TERMINAL (d)	9/29 (31%)	12/37 (32%)	8/27 (30%)	8/32 (25%)	10/29 (35%)
FIRST INCIDENCE	669	590	659	721	551
STATISTICAL TESTS					
POLY 3	P=0.540	P=0.471	P=0.585N	P=0.231N	P=0.518
POLY 1.5	P=0.537N	P=0.445	P=0.555N	P=0.230N	P=0.549
POLY 6	P=0.500	P=0.514	P=0.589	P=0.230N	P=0.492
RAO-SCOTT	P=0.522	P=0.469	P=0.571N	P=0.239N	P=0.509
LITTER C-A/FISHERS	P=0.279N	P=0.500	P=0.500N	P=0.193N	P=0.388N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
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%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	1/38.25
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	703
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibrolipoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibroma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/41.48	0/42.84	2/38.64	1/41.49	1/38.14
POLY-3 PERCENT (g)	2.4%	0%	5.2%	2.4%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	1/27 (4%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	640	---	564	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.592	P=0.494N	P=0.475	P=0.761N	P=0.742
POLY 1.5	P=0.609	P=0.496N	P=0.484	P=0.760N	P=0.750
POLY 6	P=0.572	P=0.488N	P=0.468	P=0.760N	P=0.734
RAO-SCOTT	P=0.589	P=0.506N	P=0.473	P=0.745N	P=0.718
LITTER C-A/FISHERS	P=0.634	P=0.500N	P=0.500	P=0.755	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/41.48	0/42.84	2/38.64	1/41.49	1/38.14
POLY-3 PERCENT (g)	2.4%	0%	5.2%	2.4%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	1/27 (4%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	640	---	564	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.592	P=0.494N	P=0.475	P=0.761N	P=0.742
POLY 1.5	P=0.609	P=0.496N	P=0.484	P=0.760N	P=0.750
POLY 6	P=0.572	P=0.488N	P=0.468	P=0.760N	P=0.734
RAO-SCOTT	P=0.589	P=0.506N	P=0.473	P=0.745N	P=0.718
LITTER C-A/FISHERS	P=0.634	P=0.500N	P=0.500	P=0.755	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibrosarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	0/42.84	2/38.64	1/41.49	1/38.14
POLY-3 PERCENT (g)	0%	0%	5.2%	2.4%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	1/27 (4%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	---	---	564	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.453	(e)	P=0.223	P=0.502	P=0.485
POLY 1.5	P=0.471	(e)	P=0.228	P=0.501	P=0.491
POLY 6	P=0.434	(e)	P=0.220	P=0.504	P=0.479
RAO-SCOTT	P=0.491	(e)	P=0.288	P=0.560	P=0.529
LITTER C-A/FISHERS	P=0.497	(e)	P=0.245	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/41.48	0/42.84	2/38.64	1/41.49	1/38.14
POLY-3 PERCENT (g)	2.4%	0%	5.2%	2.4%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	1/27 (4%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	640	---	564	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.592	P=0.494N	P=0.475	P=0.761N	P=0.742
POLY 1.5	P=0.609	P=0.496N	P=0.484	P=0.760N	P=0.750
POLY 6	P=0.572	P=0.488N	P=0.468	P=0.760N	P=0.734
RAO-SCOTT	P=0.589	P=0.506N	P=0.473	P=0.745N	P=0.718
LITTER C-A/FISHERS	P=0.634	P=0.500N	P=0.500	P=0.755	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Lipoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	1/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	2.6%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	1/27 (4%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	730 (T)	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Pilomatrixoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Squamous Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Adenoma					
TUMOR RATES					
OVERALL (a)	12/50 (24%)	8/50 (16%)	7/49 (14%)	9/50 (18%)	5/50 (10%)
LITTERS (b)	11/25 (44%)	8/25 (32%)	6/25 (24%)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	12/41.47	8/42.84	7/38.63	9/41.96	5/39.21
POLY-3 PERCENT (g)	28.9%	18.7%	18.1%	21.5%	12.8%
TERMINAL (d)	10/29 (35%)	8/37 (22%)	4/27 (15%)	8/32 (25%)	3/29 (10%)
FIRST INCIDENCE	662	730 (T)	512	591	543
STATISTICAL TESTS					
POLY 3	P=0.123N	P=0.196N	P=0.189N	P=0.295N	P=0.062N
POLY 1.5	P=0.113N	P=0.208N	P=0.182N	P=0.301N	P=0.058N
POLY 6	P=0.136N	P=0.176N	P=0.190N	P=0.283N	P=0.065N
RAO-SCOTT	P=0.128N	P=0.202N	P=0.193N	P=0.297N	P=0.070N
LITTER C-A/FISHERS	P=0.058N	P=0.280N	P=0.116N	P=0.280N	P=0.031N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Carcinoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	1/41.15	0/42.84	0/37.64	0/41.49	2/38.72
POLY-3 PERCENT (g)	2.4%	0%	0%	0%	5.2%
TERMINAL (d)	1/29 (3%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	730 (T)	---	---	---	547
STATISTICAL TESTS					
POLY 3	P=0.103	P=0.492N	P=0.518N	P=0.498N	P=0.479
POLY 1.5	P=0.106	P=0.495N	P=0.513N	P=0.499N	P=0.487
POLY 6	P=0.099	P=0.486N	P=0.521N	P=0.496N	P=0.472
RAO-SCOTT	P=0.177	P=0.598N	P=0.595N	P=0.596N	P=0.532
LITTER C-A/FISHERS	P=0.107	P=0.500N	P=0.500N	P=0.500N	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	13/50 (26%)	8/50 (16%)	7/49 (14%)	9/50 (18%)	7/50 (14%)
LITTERS (b)	12/25 (48%)	8/25 (32%)	6/25 (24%)	8/25 (32%)	6/25 (24%)
POLY-3 RATE (c)	13/41.47	8/42.84	7/38.63	9/41.96	7/39.79
POLY-3 PERCENT (g)	31.4%	18.7%	18.1%	21.5%	17.6%
TERMINAL (d)	11/29 (38%)	8/37 (22%)	4/27 (15%)	8/32 (25%)	4/29 (14%)
FIRST INCIDENCE	662	730 (T)	512	591	543
STATISTICAL TESTS					
POLY 3	P=0.262N	P=0.135N	P=0.131N	P=0.216N	P=0.115N
POLY 1.5	P=0.248N	P=0.146N	P=0.126N	P=0.223N	P=0.111N
POLY 6	P=0.277N	P=0.118N	P=0.131N	P=0.204N	P=0.116N
RAO-SCOTT	P=0.262N	P=0.140N	P=0.135N	P=0.219N	P=0.120N
LITTER C-A/FISHERS	P=0.170N	P=0.193N	P=0.070N	P=0.193N	P=0.070N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Uterus					
Polyp Stromal					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	5/50 (10%)	6/50 (12%)	5/50 (10%)	5/50 (10%)	10/50 (20%)
LITTERS (b)	5/25 (20%)	6/25 (24%)	5/25 (20%)	4/25 (16%)	10/25 (40%)
POLY-3 RATE (c)	5/41.65	6/42.84	5/38.43	5/41.92	10/38.79
POLY-3 PERCENT (g)	12%	14%	13%	11.9%	25.8%
TERMINAL (d)	3/29 (10%)	6/37 (16%)	3/27 (11%)	3/32 (9%)	9/29 (31%)
FIRST INCIDENCE	646	730 (T)	675	631	515
STATISTICAL TESTS					
POLY 3	P=0.045*	P=0.520	P=0.580	P=0.627N	P=0.094
POLY 1.5	P=0.053	P=0.512	P=0.598	P=0.628N	P=0.109
POLY 6	P=0.038*	P=0.535	P=0.564	P=0.623N	P=0.082
RAO-SCOTT	P=0.042*	P=0.504	P=0.556	P=0.609N	P=0.093
LITTER C-A/FISHERS	P=0.048*	P=0.500	P=0.637	P=0.500N	P=0.108

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Uterus					
Sarcoma Stromal or Polyp Stromal					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	6/50 (12%)	6/50 (12%)	5/50 (10%)	6/50 (12%)	10/50 (20%)
LITTERS (b)	6/25 (24%)	6/25 (24%)	5/25 (20%)	5/25 (20%)	10/25 (40%)
POLY-3 RATE (c)	6/42.13	6/42.84	5/38.43	6/41.92	10/38.79
POLY-3 PERCENT (g)	14.2%	14%	13%	14.3%	25.8%
TERMINAL (d)	3/29 (10%)	6/37 (16%)	3/27 (11%)	4/32 (13%)	9/29 (31%)
FIRST INCIDENCE	588	730 (T)	675	631	515
STATISTICAL TESTS					
POLY 3	P=0.063	P=0.610N	P=0.565N	P=0.618	P=0.151
POLY 1.5	P=0.074	P=0.614N	P=0.540N	P=0.620	P=0.174
POLY 6	P=0.053	P=0.600N	P=0.587N	P=0.619	P=0.130
RAO-SCOTT	P=0.059	P=0.594N	P=0.542N	P=0.601	P=0.146
LITTER C-A/FISHERS	P=0.070	P=0.629	P=0.500N	P=0.500N	P=0.182

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Uterus					
Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	1/43.05	0/38.10	2/42.37	0/38.14
POLY-3 PERCENT (g)	0%	2.3%	0%	4.7%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	1/32 (3%)	0/29 (0%)
FIRST INCIDENCE	---	675	---	361	---
STATISTICAL TESTS					
POLY 3	P=0.595N	P=0.509	(e)	P=0.243	(e)
POLY 1.5	P=0.586N	P=0.505	(e)	P=0.242	(e)
POLY 6	P=0.604N	P=0.516	(e)	P=0.246	(e)
RAO-SCOTT	P=0.605N	P=0.597	(e)	P=0.342	(e)
LITTER C-A/FISHERS	P=0.576N	P=0.500	(e)	P=0.245	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Histiocytic Sarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	2/41.85	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	4.8%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	1/32 (3%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	629	---
STATISTICAL TESTS					
POLY 3	P=0.698	(e)	(e)	P=0.241	(e)
POLY 1.5	P=0.713	(e)	(e)	P=0.239	(e)
POLY 6	P=0.679	(e)	(e)	P=0.244	(e)
RAO-SCOTT	P=0.727	(e)	(e)	P=0.378	(e)
LITTER C-A/FISHERS	P=0.731	(e)	(e)	P=0.245	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	3/25 (12%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	1/41.17	2/43.53	3/39.03	0/41.49	2/38.54
POLY-3 PERCENT (g)	2.4%	4.6%	7.7%	0%	5.2%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	1/27 (4%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	725	494	351	---	618
STATISTICAL TESTS					
POLY 3	P=0.575	P=0.519	P=0.286	P=0.498N	P=0.477
POLY 1.5	P=0.588	P=0.511	P=0.293	P=0.499N	P=0.486
POLY 6	P=0.563	P=0.533	P=0.279	P=0.497N	P=0.470
RAO-SCOTT	P=0.564	P=0.530	P=0.307	P=0.512N	P=0.479
LITTER C-A/FISHERS	P=0.608	P=0.500	P=0.305	P=0.500N	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant Schwannoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	2/41.58	1/43.05	1/38.55	2/42.37	0/38.14
POLY-3 PERCENT (g)	4.8%	2.3%	2.6%	4.7%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	1/32 (3%)	0/29 (0%)
FIRST INCIDENCE	662	675	597	361	---
STATISTICAL TESTS					
POLY 3	P=0.265N	P=0.488N	P=0.526N	P=0.688N	P=0.257N
POLY 1.5	P=0.254N	P=0.493N	P=0.517N	P=0.689N	P=0.248N
POLY 6	P=0.279N	P=0.479N	P=0.535N	P=0.686N	P=0.265N
RAO-SCOTT	P=0.270N	P=0.496N	P=0.519N	P=0.676N	P=0.270N
LITTER C-A/FISHERS	P=0.237N	P=0.500N	P=0.500N	P=0.695	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Mesothelioma: Benign, Malignant, NOS					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Mesothelioma: Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	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%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	40/50 (80%)	44/50 (88%)	39/50 (78%)	41/50 (82%)	36/50 (72%)
LITTERS (b)	24/25 (96%)	25/25 (100%)	25/25 (100%)	25/25 (100%)	24/25 (96%)
POLY-3 RATE (c)	40/47.31	44/47.48	39/43.91	41/47.96	36/44.96
POLY-3 PERCENT (g)	84.6%	92.7%	88.8%	85.5%	80.1%
TERMINAL (d)	25/29 (86%)	34/37 (92%)	24/27 (89%)	26/32 (81%)	23/29 (79%)
FIRST INCIDENCE	302	403	393	326	329
STATISTICAL TESTS					
POLY 3	P=0.094N	P=0.163	P=0.376	P=0.566	P=0.379N
POLY 1.5	P=0.076N	P=0.156	P=0.474	P=0.525	P=0.324N
POLY 6	P=0.127N	P=0.213	P=0.337	P=0.606N	P=0.422N
RAO-SCOTT	P=0.105N	P=0.176	P=0.376	P=0.559	P=0.379N
LITTER C-A/FISHERS	P=0.441N	P=0.500	P=0.500	P=0.500	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:32:21

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	13/50 (26%)	6/50 (12%)	14/50 (28%)	10/50 (20%)	7/50 (14%)
LITTERS (b)	12/25 (48%)	6/25 (24%)	13/25 (52%)	10/25 (40%)	7/25 (28%)
POLY-3 RATE (c)	13/42.87	6/43.74	14/43.41	10/44.46	7/40.91
POLY-3 PERCENT (g)	30.3%	13.7%	32.3%	22.5%	17.1%
TERMINAL (d)	7/29 (24%)	4/37 (11%)	4/27 (15%)	5/32 (16%)	2/29 (7%)
FIRST INCIDENCE	588	494	309	361	333
STATISTICAL TESTS					
POLY 3	P=0.195N	P=0.051N	P=0.516	P=0.278N	P=0.120N
POLY 1.5	P=0.175N	P=0.055N	P=0.513	P=0.289N	P=0.111N
POLY 6	P=0.221N	P=0.047N*	P=0.517	P=0.268N	P=0.132N
RAO-SCOTT	P=0.185N	P=0.051N	P=0.503	P=0.269N	P=0.115N
LITTER C-A/FISHERS	P=0.174N	P=0.070N	P=0.500	P=0.388N	P=0.122N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

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

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs					
Malignant and Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	44/50 (88%)	46/50 (92%)	46/50 (92%)	43/50 (86%)	39/50 (78%)
LITTERS (b)	24/25 (96%)	25/25 (100%)	25/25 (100%)	25/25 (100%)	24/25 (96%)
POLY-3 RATE (c)	44/48.28	46/48.22	46/48.37	43/49.69	39/47.22
POLY-3 PERCENT (g)	91.1%	95.4%	95.1%	86.5%	82.6%
TERMINAL (d)	26/29 (90%)	35/37 (95%)	25/27 (93%)	26/32 (81%)	23/29 (79%)
FIRST INCIDENCE	302	403	309	326	329
STATISTICAL TESTS					
POLY 3	P=0.017N*	P=0.326	P=0.348	P=0.340N	P=0.161N
POLY 1.5	P=0.013N*	P=0.314	P=0.337	P=0.393N	P=0.146N
POLY 6	P=0.028N*	P=0.380	P=0.391	P=0.293N	P=0.184N
RAO-SCOTT	P=0.028N*	P=0.351	P=0.373	P=0.360N	P=0.191N
LITTER C-A/FISHERS	P=0.441N	P=0.500	P=0.500	P=0.500	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Dibutyl Phthalate

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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 ***