

Experiment Number: 10987 - 01
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Dibutyl Phthalate
CAS Number: 84-74-2

Date Report Requested: 08/27/2019
Time Report Requested: 16:43:37
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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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF DIBUTYL PHTHALATE

MALE RATS

Organ

Adrenal Cortex

Adrenal Medulla

Bone Marrow

Epididymis

Epididymis: Bilateral

Kidney: Bilateral

Kidney: Pelvis

Liver: Hepatocyte

Lung: Alveolus

Lymph Node, Mandibular

Pituitary Gland: Pars Distalis

Preputial Gland

Preputial Gland: Bilateral, Duct

Preputial Gland: Duct

Prostate

Prostate: Epithelium, Ventral

Seminal Vesicle

Spleen

Stomach, Forestomach

Testis

Testis: Bilateral

Testis: Bilateral, Germinal Epithelium

Testis: Bilateral, Interstitial Cell

Testis: Bilateral, Seminiferous Tubule

Testis: Germinal Epithelium

Morphology

Hyperplasia Focal

Hyperplasia

Hypercellularity

Hypospermia

Hypospermia

Inflammation

Dilation

Inflammation Chronic

Cytoplasmic Alteration

Infiltration Cellular Histiocyte

Inflammation Chronic

Hyperplasia

Hyperplasia

Hypertrophy

Inflammation Chronic

Dilation

Dilation

Decreased Secretory Fluid

Hyperplasia Focal

Decreased Secretory Fluid

Inflammation Chronic

Pigment

Ulcer

Edema

Edema

Atrophy

Degeneration

Hyperplasia Diffuse

Hyperplasia Focal

Dysgenesis

Atrophy

Degeneration

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Testis: Interstitial Cell

Testis: Rete Testis

Testis: Seminiferous Tubule

Thymus

Urinary Bladder: Urothelium

Hyperplasia Diffuse

Hyperplasia Focal

Fibrosis

Sperm Granuloma

Dysgenesis

Atrophy

Inflammation Chronic

FEMALE RATS

Organ

Adrenal Cortex

Bone Marrow

Heart

Liver

Liver: Bile Duct

Liver: Hepatocyte

Lung: Alveolus

Nose

Nose: Goblet Cell, Respiratory Epithelium

Pituitary Gland: Pars Distalis

Spleen

Spleen: Lymphoid Follicle

Stomach, Forestomach: Epithelium

Morphology

Hypertrophy Focal

Thrombus

Hypercellularity

Cardiomyopathy

Fatty Change Focal

Mixed Cell Focus

Cyst

Hyperplasia

Cytoplasmic Alteration

Infiltration Cellular Histiocyte

Inflammation

Inflammation Chronic

Foreign Body

Hyperplasia

Hyperplasia

Extramedullary Hematopoiesis

Pigment

Atrophy

Hyperplasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Degeneration Cystic					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	2/44.39	3/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	4.5%	6.9%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	2/31 (7%)	3/34 (9%)	0/33 (0%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.529N	(e)	P=0.255	P=0.130	(e)
POLY 1.5	P=0.530N	(e)	P=0.251	P=0.127	(e)
POLY 6	P=0.524N	(e)	P=0.259	P=0.134	(e)
RAO-SCOTT	P=0.554N	(e)	P=0.358	P=0.219	(e)
LITTER C-A/FISHERS	P=0.510N	(e)	P=0.245	P=0.117	(e)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Extramedullary Hematopoiesis					
LESION 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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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Hemorrhage					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.00	1/44.63	0/44.39	0/43.68	1/42.35
POLY-3 PERCENT (g)	0%	2.2%	0%	0%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	706	---	---	141
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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Hyperplasia Focal					
LESION RATES					
OVERALL (a)	30/49 (61%)	32/50 (64%)	27/50 (54%)	14/50 (28%)	15/50 (30%)
LITTERS (b)	23/25 (92%)	23/25 (92%)	19/25 (76%)	9/25 (36%)	15/25 (60%)
POLY-3 RATE (c)	30/44.49	32/47.69	27/47.50	14/44.83	15/41.61
POLY-3 PERCENT (g)	67.4%	67.1%	56.8%	31.2%	36.1%
TERMINAL (d)	17/27 (63%)	23/38 (61%)	17/31 (55%)	11/34 (32%)	13/33 (39%)
FIRST INCIDENCE	506	450	284	562	677
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.576N	P=0.198N	P<0.001N**	P=0.002N**
POLY 1.5	P<0.001N**	P=0.554	P=0.219N	P<0.001N**	P=0.002N**
POLY 6	P<0.001N**	P=0.514N	P=0.191N	P<0.001N**	P=0.002N**
RAO-SCOTT	P<0.001N**	P=0.573N	P=0.214N	P<0.001N**	P=0.005N**
LITTER C-A/FISHERS	P=0.005N**	P=0.695	P=0.123N	P<0.001N**	P=0.009N**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Hypertrophy Focal					
LESION RATES					
OVERALL (a)	18/49 (37%)	24/50 (48%)	23/50 (46%)	23/50 (46%)	14/50 (28%)
LITTERS (b)	14/25 (56%)	19/25 (76%)	17/25 (68%)	18/25 (72%)	13/25 (52%)
POLY-3 RATE (c)	18/42.36	24/45.05	23/46.40	23/44.65	14/41.64
POLY-3 PERCENT (g)	42.5%	53.3%	49.6%	51.5%	33.6%
TERMINAL (d)	13/27 (48%)	22/38 (58%)	16/31 (52%)	18/34 (53%)	13/33 (39%)
FIRST INCIDENCE	506	632	585	625	654
STATISTICAL TESTS					
POLY 3	P=0.069N	P=0.209	P=0.323	P=0.261	P=0.268N
POLY 1.5	P=0.067N	P=0.195	P=0.289	P=0.248	P=0.275N
POLY 6	P=0.065N	P=0.241	P=0.364	P=0.286	P=0.246N
RAO-SCOTT	P=0.072N	P=0.217	P=0.326	P=0.267	P=0.269N
LITTER C-A/FISHERS	P=0.140N	P=0.116	P=0.280	P=0.189	P=0.500N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Karyomegaly					
LESION 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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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Necrosis					
LESION 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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Nuclear Alteration					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	1/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	1/38 (3%)	0/31 (0%)	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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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Thrombus					
LESION 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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Vacuolization Cytoplasmic					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	1/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	1/34 (3%)	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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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Vacuolization Cytoplasmic Focal					
LESION RATES					
OVERALL (a)	8/49 (16%)	9/50 (18%)	8/50 (16%)	3/50 (6%)	5/50 (10%)
LITTERS (b)	7/25 (28%)	8/25 (32%)	8/25 (32%)	3/25 (12%)	5/25 (20%)
POLY-3 RATE (c)	8/41.58	9/44.53	8/45.83	3/44.21	5/41.36
POLY-3 PERCENT (g)	19.2%	20.2%	17.5%	6.8%	12.1%
TERMINAL (d)	4/27 (15%)	9/38 (24%)	2/31 (7%)	2/34 (6%)	5/33 (15%)
FIRST INCIDENCE	661	729 (T)	512	565	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.164N	P=0.562	P=0.524N	P=0.079N	P=0.277N
POLY 1.5	P=0.163N	P=0.546	P=0.547N	P=0.084N	P=0.283N
POLY 6	P=0.162N	P=0.587	P=0.502N	P=0.073N	P=0.263N
RAO-SCOTT	P=0.180N	P=0.558	P=0.523N	P=0.094N	P=0.285N
LITTER C-A/FISHERS	P=0.190N	P=0.500	P=0.500	P=0.145N	P=0.371N

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Medulla Hyperplasia					
LESION RATES					
OVERALL (a)	11/49 (22%)	11/50 (22%)	9/50 (18%)	7/50 (14%)	3/50 (6%)
LITTERS (b)	9/25 (36%)	8/25 (32%)	9/25 (36%)	7/25 (28%)	3/25 (12%)
POLY-3 RATE (c)	11/42.21	11/44.56	9/44.39	7/43.74	3/41.36
POLY-3 PERCENT (g)	26.1%	24.7%	20.3%	16%	7.3%
TERMINAL (d)	6/27 (22%)	10/38 (26%)	9/31 (29%)	6/34 (18%)	3/33 (9%)
FIRST INCIDENCE	603	722	729 (T)	715	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.013N*	P=0.540N	P=0.351N	P=0.188N	P=0.020N*
POLY 1.5	P=0.013N*	P=0.552N	P=0.357N	P=0.193N	P=0.021N*
POLY 6	P=0.012N*	P=0.520N	P=0.353N	P=0.184N	P=0.018N*
RAO-SCOTT	P=0.023N*	P=0.544N	P=0.374N	P=0.222N	P=0.037N*
LITTER C-A/FISHERS	P=0.025N*	P=0.500N	P=0.616	P=0.381N	P=0.048N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Blood Vessel					
Mineral					
LESION RATES					
OVERALL (a)	1/49 (2%)	1/50 (2%)	4/50 (8%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	4/25 (16%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	1/41.21	1/44.97	4/45.41	2/44.62	1/42.36
POLY-3 PERCENT (g)	2.4%	2.2%	8.8%	4.5%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	674	603	621	589	57
STATISTICAL TESTS					
POLY 3	P=0.437N	P=0.741N	P=0.209	P=0.528	P=0.755N
POLY 1.5	P=0.438N	P=0.747N	P=0.201	P=0.519	P=0.758N
POLY 6	P=0.434N	P=0.731N	P=0.219	P=0.539	P=0.749N
RAO-SCOTT	P=0.449N	P=0.734N	P=0.235	P=0.534	P=0.740N
LITTER C-A/FISHERS	P=0.428N	P=0.755	P=0.174	P=0.500	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Bone Marrow Hypercellularity					
LESION RATES					
OVERALL (a)	14/49 (29%)	5/50 (10%)	12/50 (24%)	10/50 (20%)	10/50 (20%)
LITTERS (b)	11/25 (44%)	5/25 (20%)	11/25 (44%)	10/25 (40%)	9/25 (36%)
POLY-3 RATE (c)	14/43.57	5/46.31	12/46.62	10/45.08	10/45.43
POLY-3 PERCENT (g)	32.1%	10.8%	25.7%	22.2%	22%
TERMINAL (d)	4/27 (15%)	2/38 (5%)	3/31 (10%)	4/34 (12%)	4/33 (12%)
FIRST INCIDENCE	560	268	615	565	57
STATISTICAL TESTS					
POLY 3	P=0.524N	P=0.011N*	P=0.331N	P=0.207N	P=0.201N
POLY 1.5	P=0.521N	P=0.013N*	P=0.347N	P=0.212N	P=0.208N
POLY 6	P=0.526N	P=0.010N**	P=0.316N	P=0.201N	P=0.192N
RAO-SCOTT	P=0.515N	P=0.017N*	P=0.336N	P=0.215N	P=0.210N
LITTER C-A/FISHERS	P=0.551	P=0.064N	P=0.612	P=0.500N	P=0.387N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Brain Hemorrhage					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/41.00	1/45.48	1/44.67	1/44.22	2/42.81
POLY-3 PERCENT (g)	0%	2.2%	2.2%	2.3%	4.7%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	268	652	562	141
STATISTICAL TESTS					
POLY 3	P=0.215	P=0.521	P=0.517	P=0.515	P=0.247
POLY 1.5	P=0.212	P=0.515	P=0.513	P=0.510	P=0.242
POLY 6	P=0.222	P=0.529	P=0.522	P=0.521	P=0.256
RAO-SCOTT	P=0.231	P=0.532	P=0.526	P=0.522	P=0.266
LITTER C-A/FISHERS	P=0.213	P=0.500	P=0.500	P=0.500	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Epididymis					
Granuloma Sperm					
LESION RATES					
OVERALL (a)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.00	2/44.53	0/44.39	0/43.68	1/41.53
POLY-3 PERCENT (g)	0%	4.5%	0%	0%	2.4%
TERMINAL (d)	0/27 (0%)	2/38 (5%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	729 (T)	---	---	684
STATISTICAL TESTS					
POLY 3	P=0.591	P=0.256	(e)	(e)	P=0.503
POLY 1.5	P=0.587	P=0.250	(e)	(e)	P=0.499
POLY 6	P=0.601	P=0.265	(e)	(e)	P=0.510
RAO-SCOTT	P=0.617	P=0.371	(e)	(e)	P=0.598
LITTER C-A/FISHERS	P=0.592	P=0.245	(e)	(e)	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Epididymis					
Hypospermia					
LESION RATES					
OVERALL (a)	4/49 (8%)	7/50 (14%)	10/50 (20%)	9/50 (18%)	40/50 (80%)
LITTERS (b)	4/25 (16%)	6/25 (24%)	10/25 (40%)	9/25 (36%)	24/25 (96%)
POLY-3 RATE (c)	4/41.45	7/45.62	10/46.12	9/45.08	40/48.72
POLY-3 PERCENT (g)	9.7%	15.3%	21.7%	20%	82.1%
TERMINAL (d)	1/27 (4%)	3/38 (8%)	3/31 (10%)	6/34 (18%)	26/33 (79%)
FIRST INCIDENCE	661	603	585	414	57
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.318	P=0.106	P=0.148	P<0.001**
POLY 1.5	P<0.001**	P=0.299	P=0.096	P=0.139	P<0.001**
POLY 6	P<0.001**	P=0.348	P=0.119	P=0.159	P<0.001**
RAO-SCOTT	P<0.001**	P=0.303	P=0.101	P=0.140	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.363	P=0.057	P=0.098	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Epididymis: Bilateral Hypospermia					
LESION RATES					
OVERALL (a)	1/49 (2%)	7/50 (14%)	9/50 (18%)	4/50 (8%)	27/50 (54%)
LITTERS (b)	1/25 (4%)	6/25 (24%)	9/25 (36%)	4/25 (16%)	19/25 (76%)
POLY-3 RATE (c)	1/41.00	7/45.62	9/46.12	4/44.21	27/46.94
POLY-3 PERCENT (g)	2.4%	15.3%	19.5%	9.1%	57.5%
TERMINAL (d)	1/27 (4%)	3/38 (8%)	2/31 (7%)	3/34 (9%)	17/33 (52%)
FIRST INCIDENCE	729 (T)	603	585	565	57
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.043*	P=0.014*	P=0.202	P<0.001**
POLY 1.5	P<0.001**	P=0.038*	P=0.012*	P=0.195	P<0.001**
POLY 6	P<0.001**	P=0.051	P=0.016*	P=0.212	P<0.001**
RAO-SCOTT	P<0.001**	P=0.056	P=0.022*	P=0.215	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.049*	P=0.005**	P=0.174	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Epididymis: Bilateral, Duct Exfoliated Germ Cell					
LESION RATES					
OVERALL (a)	3/49 (6%)	5/50 (10%)	4/50 (8%)	5/50 (10%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	5/25 (20%)	4/25 (16%)	5/25 (20%)	2/25 (8%)
POLY-3 RATE (c)	3/42.14	5/45.53	4/45.28	5/46.14	2/42.46
POLY-3 PERCENT (g)	7.1%	11%	8.8%	10.8%	4.7%
TERMINAL (d)	0/27 (0%)	2/38 (5%)	0/31 (0%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	409	603	585	414	141
STATISTICAL TESTS					
POLY 3	P=0.273N	P=0.399	P=0.539	P=0.407	P=0.497N
POLY 1.5	P=0.272N	P=0.386	P=0.530	P=0.391	P=0.500N
POLY 6	P=0.269N	P=0.424	P=0.550	P=0.427	P=0.486N
RAO-SCOTT	P=0.269N	P=0.393	P=0.528	P=0.401	P=0.480N
LITTER C-A/FISHERS	P=0.244N	P=0.351	P=0.500	P=0.351	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Epididymis: Duct Exfoliated Germ Cell					
LESION RATES					
OVERALL (a)	7/49 (14%)	6/50 (12%)	6/50 (12%)	7/50 (14%)	3/50 (6%)
LITTERS (b)	7/25 (28%)	6/25 (24%)	6/25 (24%)	7/25 (28%)	3/25 (12%)
POLY-3 RATE (c)	7/43.24	6/45.53	6/45.66	7/47.15	3/43.15
POLY-3 PERCENT (g)	16.2%	13.2%	13.1%	14.9%	7%
TERMINAL (d)	1/27 (4%)	3/38 (8%)	1/31 (3%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	409	603	585	414	141
STATISTICAL TESTS					
POLY 3	P=0.153N	P=0.460N	P=0.458N	P=0.545N	P=0.157N
POLY 1.5	P=0.152N	P=0.470N	P=0.465N	P=0.566N	P=0.159N
POLY 6	P=0.153N	P=0.441N	P=0.452N	P=0.523N	P=0.152N
RAO-SCOTT	P=0.141N	P=0.448N	P=0.446N	P=0.535N	P=0.147N
LITTER C-A/FISHERS	P=0.120N	P=0.500N	P=0.500N	P=0.623	P=0.145N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Harderian Gland Atrophy					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Heart					
Cardiomyopathy					
LESION RATES					
OVERALL (a)	44/49 (90%)	47/50 (94%)	47/50 (94%)	45/50 (90%)	44/50 (88%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	24/25 (96%)	24/25 (96%)
POLY-3 RATE (c)	44/47.87	47/49.05	47/49.58	45/48.35	44/47.96
POLY-3 PERCENT (g)	91.9%	95.8%	94.8%	93.1%	91.7%
TERMINAL (d)	25/27 (93%)	36/38 (95%)	29/31 (94%)	32/34 (94%)	30/33 (91%)
FIRST INCIDENCE	169	424	284	414	57
STATISTICAL TESTS					
POLY 3	P=0.371N	P=0.348	P=0.432	P=0.571	P=0.640N
POLY 1.5	P=0.325N	P=0.321	P=0.403	P=0.562	P=0.611N
POLY 6	P=0.414N	P=0.401	P=0.457	P=0.583	P=0.658N
RAO-SCOTT	P=0.394N	P=0.382	P=0.460	P=0.581	P=0.640N
LITTER C-A/FISHERS	P=0.234N	P=1.000	P=1.000	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Heart					
Mineral					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	2/44.77	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	4.5%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	644	---	---
STATISTICAL TESTS					
POLY 3	P=0.481N	(e)	P=0.257	(e)	(e)
POLY 1.5	P=0.483N	(e)	P=0.252	(e)	(e)
POLY 6	P=0.479N	(e)	P=0.263	(e)	(e)
RAO-SCOTT	P=0.582N	(e)	P=0.410	(e)	(e)
LITTER C-A/FISHERS	P=0.483N	(e)	P=0.245	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Heart: Atrium Thrombus					
LESION RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.54	0/44.53	1/44.69	0/43.68	0/41.36
POLY-3 PERCENT (g)	4.8%	0%	2.2%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	603	---	646	---	---
STATISTICAL TESTS					
POLY 3	P=0.272N	P=0.222N	P=0.475N	P=0.226N	P=0.238N
POLY 1.5	P=0.269N	P=0.226N	P=0.480N	P=0.229N	P=0.240N
POLY 6	P=0.276N	P=0.215N	P=0.470N	P=0.223N	P=0.233N
RAO-SCOTT	P=0.361N	P=0.345N	P=0.549N	P=0.346N	P=0.350N
LITTER C-A/FISHERS	P=0.261N	P=0.245N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Large, Colon Parasite Metazoan					
LESION RATES					
OVERALL (a)	2/49 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/41.00	1/44.53	1/44.39	1/43.68	0/41.36
POLY-3 PERCENT (g)	4.9%	2.3%	2.3%	2.3%	0%
TERMINAL (d)	2/27 (7%)	1/38 (3%)	1/31 (3%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.228N	P=0.471N	P=0.472N	P=0.478N	P=0.235N
POLY 1.5	P=0.227N	P=0.480N	P=0.479N	P=0.484N	P=0.238N
POLY 6	P=0.227N	P=0.457N	P=0.466N	P=0.469N	P=0.228N
RAO-SCOTT	P=0.240N	P=0.480N	P=0.481N	P=0.485N	P=0.254N
LITTER C-A/FISHERS	P=0.213N	P=0.500N	P=0.500N	P=0.500N	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Large, Rectum					
Parasite Metazoan					
LESION RATES					
OVERALL (a)	4/49 (8%)	6/50 (12%)	8/50 (16%)	4/50 (8%)	6/50 (12%)
LITTERS (b)	4/25 (16%)	5/25 (20%)	7/25 (28%)	4/25 (16%)	6/25 (24%)
POLY-3 RATE (c)	4/41.46	6/44.56	8/44.56	4/43.68	6/41.36
POLY-3 PERCENT (g)	9.7%	13.5%	18%	9.2%	14.5%
TERMINAL (d)	3/27 (11%)	5/38 (13%)	7/31 (23%)	4/34 (12%)	6/33 (18%)
FIRST INCIDENCE	592	722	685	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.504	P=0.415	P=0.212	P=0.615N	P=0.367
POLY 1.5	P=0.505	P=0.402	P=0.205	P=0.622N	P=0.362
POLY 6	P=0.512	P=0.437	P=0.218	P=0.606N	P=0.382
RAO-SCOTT	P=0.496	P=0.422	P=0.231	P=0.608N	P=0.373
LITTER C-A/FISHERS	P=0.438	P=0.500	P=0.248	P=0.649	P=0.363

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Islets, Pancreatic Hyperplasia					
LESION RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.00	0/44.53	2/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	2.4%	0%	4.5%	0%	0%
TERMINAL (d)	1/27 (4%)	0/38 (0%)	2/31 (7%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.322N	P=0.483N	P=0.528	P=0.487N	P=0.498N
POLY 1.5	P=0.321N	P=0.489N	P=0.521	P=0.491N	P=0.501N
POLY 6	P=0.323N	P=0.475N	P=0.534	P=0.483N	P=0.492N
RAO-SCOTT	P=0.405N	P=0.597N	P=0.586	P=0.597N	P=0.594N
LITTER C-A/FISHERS	P=0.314N	P=0.500N	P=0.500	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney Inflammation					
LESION RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	0/50 (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)	1/41.05	0/44.53	0/44.39	0/43.68	2/41.53
POLY-3 PERCENT (g)	2.4%	0%	0%	0%	4.8%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	716	---	---	---	684
STATISTICAL TESTS					
POLY 3	P=0.101	P=0.484N	P=0.484N	P=0.488N	P=0.504
POLY 1.5	P=0.102	P=0.489N	P=0.488N	P=0.491N	P=0.499
POLY 6	P=0.101	P=0.476N	P=0.481N	P=0.483N	P=0.516
RAO-SCOTT	P=0.192	P=0.606N	P=0.606N	P=0.605N	P=0.565
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney Mineral					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	3/45.15	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	6.6%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	565	---
STATISTICAL TESTS					
POLY 3	P=0.660	(e)	(e)	P=0.137	(e)
POLY 1.5	P=0.660	(e)	(e)	P=0.131	(e)
POLY 6	P=0.666	(e)	(e)	P=0.145	(e)
RAO-SCOTT	P=0.699	(e)	(e)	P=0.261	(e)
LITTER C-A/FISHERS	P=0.686	(e)	(e)	P=0.117	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney					
Nephropathy Chronic Progressive					
LESION RATES					
OVERALL (a)	47/49 (96%)	48/50 (96%)	48/50 (96%)	50/50 (100%)	47/50 (94%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	47/48.18	48/48.64	48/50.00	50/50.00	47/48.80
POLY-3 PERCENT (g)	97.6%	98.7%	96%	100%	96.3%
TERMINAL (d)	26/27 (96%)	38/38 (100%)	29/31 (94%)	34/34 (100%)	32/33 (97%)
FIRST INCIDENCE	169	268	284	141	141
STATISTICAL TESTS					
POLY 3	P=0.471N	P=0.656	P=0.554N	P=0.422	P=0.596N
POLY 1.5	P=0.520N	P=0.690	P=0.606N	P=0.341	P=0.619N
POLY 6	P=0.456N	P=0.577	P=0.521N	P=0.479	P=0.604N
RAO-SCOTT	P=0.503N	P=0.672	P=0.593N	P=0.508	P=0.625N
LITTER C-A/FISHERS	(e)	P=1.000	P=1.000	P=1.000	P=1.000

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Bilateral Inflammation					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	2/41.53
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.8%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	---	---	---	---	684
STATISTICAL TESTS					
POLY 3	P=0.018*	(e)	(e)	(e)	P=0.240
POLY 1.5	P=0.018*	(e)	(e)	(e)	P=0.236
POLY 6	P=0.018*	(e)	(e)	(e)	P=0.248
RAO-SCOTT	P=0.089	(e)	(e)	(e)	P=0.392
LITTER C-A/FISHERS	P=0.019*	(e)	(e)	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Pelvis Dilation					
LESION RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	2/50 (4%)	4/50 (8%)	4/50 (8%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	1/41.00	0/44.53	2/44.64	4/44.19	4/43.52
POLY-3 PERCENT (g)	2.4%	0%	4.5%	9.1%	9.2%
TERMINAL (d)	1/27 (4%)	0/38 (0%)	1/31 (3%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	---	663	592	57
STATISTICAL TESTS					
POLY 3	P=0.057	P=0.483N	P=0.530	P=0.202	P=0.197
POLY 1.5	P=0.056	P=0.489N	P=0.522	P=0.195	P=0.190
POLY 6	P=0.059	P=0.475N	P=0.538	P=0.212	P=0.209
RAO-SCOTT	P=0.125	P=0.608N	P=0.595	P=0.302	P=0.296
LITTER C-A/FISHERS	P=0.027*	P=0.500N	P=0.755	P=0.305	P=0.174

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Pelvis					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	3/42.30
POLY-3 PERCENT (g)	0%	0%	0%	0%	7.1%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	---	---	---	---	275
STATISTICAL TESTS					
POLY 3	P=0.002**	(e)	(e)	(e)	P=0.124
POLY 1.5	P=0.002**	(e)	(e)	(e)	P=0.121
POLY 6	P=0.002**	(e)	(e)	(e)	P=0.130
RAO-SCOTT	P=0.026*	(e)	(e)	(e)	P=0.257
LITTER C-A/FISHERS	P=0.002**	(e)	(e)	(e)	P=0.117

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Renal Tubule Cyst					
LESION RATES					
OVERALL (a)	0/49 (0%)	2/50 (4%)	0/50 (0%)	4/50 (8%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	4/25 (16%)	1/25 (4%)
POLY-3 RATE (c)	0/41.00	2/44.92	0/44.39	4/43.72	1/41.36
POLY-3 PERCENT (g)	0%	4.5%	0%	9.2%	2.4%
TERMINAL (d)	0/27 (0%)	1/38 (3%)	0/31 (0%)	3/34 (9%)	1/33 (3%)
FIRST INCIDENCE	---	619	---	718	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.513	P=0.258	(e)	P=0.068	P=0.502
POLY 1.5	P=0.511	P=0.251	(e)	P=0.066	P=0.499
POLY 6	P=0.525	P=0.269	(e)	P=0.072	P=0.508
RAO-SCOTT	P=0.534	P=0.331	(e)	P=0.120	P=0.551
LITTER C-A/FISHERS	P=0.538	P=0.245	(e)	P=0.055	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Renal Tubule Inflammation Acute					
LESION RATES					
OVERALL (a)	3/49 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	3/41.00	0/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	7.3%	0%	0%	0%	0%
TERMINAL (d)	3/27 (11%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.226N	P=0.104N	P=0.105N	P=0.107N	P=0.116N
POLY 1.5	P=0.220N	P=0.109N	P=0.108N	P=0.111N	P=0.119N
POLY 6	P=0.233N	P=0.098N	P=0.101N	P=0.103N	P=0.111N
RAO-SCOTT	P=0.352N	P=0.245N	P=0.246N	P=0.247N	P=0.253N
LITTER C-A/FISHERS	P=0.212N	P=0.117N	P=0.117N	P=0.117N	P=0.117N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Angiectasis Focal					
LESION RATES					
OVERALL (a)	2/49 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.00	1/44.93	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	4.9%	2.2%	0%	0%	0%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	617	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.236N	P=0.468N	P=0.220N	P=0.223N	P=0.235N
POLY 1.5	P=0.234N	P=0.478N	P=0.224N	P=0.227N	P=0.238N
POLY 6	P=0.238N	P=0.452N	P=0.215N	P=0.218N	P=0.228N
RAO-SCOTT	P=0.442N	P=0.631N	P=0.484N	P=0.484N	P=0.485N
LITTER C-A/FISHERS	P=0.356N	P=0.755	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Basophilic Focus					
LESION RATES					
OVERALL (a)	4/49 (8%)	2/50 (4%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	4/25 (16%)	1/25 (4%)	2/25 (8%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	4/41.00	2/44.53	2/44.39	3/43.68	3/41.36
POLY-3 PERCENT (g)	9.8%	4.5%	4.5%	6.9%	7.3%
TERMINAL (d)	4/27 (15%)	2/38 (5%)	2/31 (7%)	3/34 (9%)	3/33 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.526	P=0.299N	P=0.301N	P=0.465N	P=0.495N
POLY 1.5	P=0.528	P=0.311N	P=0.309N	P=0.475N	P=0.503N
POLY 6	P=0.529	P=0.281N	P=0.292N	P=0.452N	P=0.478N
RAO-SCOTT	P=0.531	P=0.321N	P=0.322N	P=0.473N	P=0.496N
LITTER C-A/FISHERS	P=0.481	P=0.174N	P=0.334N	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Clear Cell Focus					
LESION RATES					
OVERALL (a)	24/49 (49%)	29/50 (58%)	23/50 (46%)	32/50 (64%)	24/50 (48%)
LITTERS (b)	19/25 (76%)	23/25 (92%)	18/25 (72%)	20/25 (80%)	19/25 (76%)
POLY-3 RATE (c)	24/42.17	29/45.05	23/44.56	32/44.49	24/41.45
POLY-3 PERCENT (g)	56.9%	64.4%	51.6%	71.9%	57.9%
TERMINAL (d)	21/27 (78%)	27/38 (71%)	22/31 (71%)	30/34 (88%)	23/33 (70%)
FIRST INCIDENCE	592	632	685	565	705
STATISTICAL TESTS					
POLY 3	P=0.543	P=0.305	P=0.387N	P=0.095	P=0.554
POLY 1.5	P=0.546N	P=0.277	P=0.406N	P=0.094	P=0.546
POLY 6	P=0.555N	P=0.364	P=0.376N	P=0.097	P=0.589
RAO-SCOTT	P=0.540	P=0.302	P=0.380N	P=0.103	P=0.538
LITTER C-A/FISHERS	P=0.389N	P=0.123	P=0.500N	P=0.500	P=0.629

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Degeneration Cystic					
LESION RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	1/25 (4%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/41.20	0/44.53	1/44.39	1/43.68	2/42.01
POLY-3 PERCENT (g)	2.4%	0%	2.3%	2.3%	4.8%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	1/31 (3%)	1/34 (3%)	1/33 (3%)
FIRST INCIDENCE	676	---	729 (T)	729 (T)	512
STATISTICAL TESTS					
POLY 3	P=0.216	P=0.484N	P=0.744N	P=0.748N	P=0.507
POLY 1.5	P=0.216	P=0.489N	P=0.748N	P=0.751N	P=0.500
POLY 6	P=0.219	P=0.477N	P=0.741N	P=0.744N	P=0.519
RAO-SCOTT	P=0.238	P=0.500N	P=0.735N	P=0.737N	P=0.509
LITTER C-A/FISHERS	P=0.223	P=0.500N	P=0.755	P=0.755	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Eosinophilic Focus					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Extramedullary Hematopoiesis					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Fatty Change Focal					
LESION RATES					
OVERALL (a)	2/49 (4%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/41.00	1/44.53	1/44.39	2/43.68	3/42.39
POLY-3 PERCENT (g)	4.9%	2.3%	2.3%	4.6%	7.1%
TERMINAL (d)	2/27 (7%)	1/38 (3%)	1/31 (3%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)	512
STATISTICAL TESTS					
POLY 3	P=0.222	P=0.471N	P=0.472N	P=0.671N	P=0.515
POLY 1.5	P=0.220	P=0.480N	P=0.479N	P=0.678N	P=0.504
POLY 6	P=0.229	P=0.457N	P=0.466N	P=0.663N	P=0.536
RAO-SCOTT	P=0.240	P=0.476N	P=0.477N	P=0.661N	P=0.512
LITTER C-A/FISHERS	P=0.227	P=0.500N	P=0.500N	P=0.695	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatodiaphragmatic Nodule					
LESION RATES					
OVERALL (a)	0/49 (0%)	2/50 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	3/25 (12%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	2/44.53	3/44.54	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	4.5%	6.7%	0%	0%
TERMINAL (d)	0/27 (0%)	2/38 (5%)	2/31 (7%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	729 (T)	691	---	---
STATISTICAL TESTS					
POLY 3	P=0.188N	P=0.256	P=0.134	(e)	(e)
POLY 1.5	P=0.191N	P=0.250	P=0.130	(e)	(e)
POLY 6	P=0.182N	P=0.265	P=0.138	(e)	(e)
RAO-SCOTT	P=0.272N	P=0.360	P=0.226	(e)	(e)
LITTER C-A/FISHERS	P=0.189N	P=0.245	P=0.117	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	1/43.68	1/41.36
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	1/34 (3%)	1/33 (3%)
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Mixed Cell Focus					
LESION RATES					
OVERALL (a)	5/49 (10%)	8/50 (16%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
LITTERS (b)	5/25 (20%)	6/25 (24%)	2/25 (8%)	3/25 (12%)	2/25 (8%)
POLY-3 RATE (c)	5/41.00	8/44.53	2/44.39	3/43.72	2/41.36
POLY-3 PERCENT (g)	12.2%	18%	4.5%	6.9%	4.8%
TERMINAL (d)	5/27 (19%)	8/38 (21%)	2/31 (7%)	2/34 (6%)	2/33 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	718	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.109N	P=0.330	P=0.184N	P=0.321N	P=0.211N
POLY 1.5	P=0.110N	P=0.313	P=0.192N	P=0.331N	P=0.218N
POLY 6	P=0.103N	P=0.358	P=0.176N	P=0.307N	P=0.197N
RAO-SCOTT	P=0.149N	P=0.366	P=0.234N	P=0.360N	P=0.256N
LITTER C-A/FISHERS	P=0.149N	P=0.500	P=0.209N	P=0.351N	P=0.209N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	1/49 (2%)	3/50 (6%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	3/25 (12%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	1/41.00	3/44.70	3/45.28	2/43.72	2/41.36
POLY-3 PERCENT (g)	2.4%	6.7%	6.6%	4.6%	4.8%
TERMINAL (d)	1/27 (4%)	2/38 (5%)	0/31 (0%)	1/34 (3%)	2/33 (6%)
FIRST INCIDENCE	729 (T)	685	512	718	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.579N	P=0.337	P=0.342	P=0.522	P=0.503
POLY 1.5	P=0.580N	P=0.327	P=0.332	P=0.516	P=0.498
POLY 6	P=0.572N	P=0.353	P=0.353	P=0.531	P=0.514
RAO-SCOTT	P=0.575N	P=0.333	P=0.339	P=0.508	P=0.483
LITTER C-A/FISHERS	P=0.565N	P=0.305	P=0.305	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Bile Duct Cyst					
LESION RATES					
OVERALL (a)	2/49 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	2/41.20	1/44.53	0/44.39	0/43.68	1/41.36
POLY-3 PERCENT (g)	4.9%	2.3%	0%	0%	2.4%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	676	729 (T)	---	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.636N	P=0.473N	P=0.221N	P=0.224N	P=0.499N
POLY 1.5	P=0.633N	P=0.481N	P=0.224N	P=0.228N	P=0.503N
POLY 6	P=0.637N	P=0.460N	P=0.218N	P=0.220N	P=0.489N
RAO-SCOTT	P=0.643N	P=0.518N	P=0.300N	P=0.301N	P=0.532N
LITTER C-A/FISHERS	P=0.626N	P=0.500N	P=0.245N	P=0.245N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Bile Duct Hyperplasia					
LESION RATES					
OVERALL (a)	15/49 (31%)	14/50 (28%)	14/50 (28%)	9/50 (18%)	9/50 (18%)
LITTERS (b)	12/25 (48%)	11/25 (44%)	10/25 (40%)	8/25 (32%)	8/25 (32%)
POLY-3 RATE (c)	15/43.55	14/45.36	14/46.36	9/43.84	9/42.02
POLY-3 PERCENT (g)	34.4%	30.9%	30.2%	20.5%	21.4%
TERMINAL (d)	7/27 (26%)	10/38 (26%)	7/31 (23%)	7/34 (21%)	7/33 (21%)
FIRST INCIDENCE	169	565	512	699	621
STATISTICAL TESTS					
POLY 3	P=0.108N	P=0.447N	P=0.419N	P=0.109N	P=0.134N
POLY 1.5	P=0.105N	P=0.464N	P=0.441N	P=0.111N	P=0.137N
POLY 6	P=0.106N	P=0.418N	P=0.397N	P=0.108N	P=0.123N
RAO-SCOTT	P=0.134N	P=0.461N	P=0.437N	P=0.141N	P=0.165N
LITTER C-A/FISHERS	P=0.170N	P=0.500N	P=0.388N	P=0.193N	P=0.193N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Hepatocyte Cytoplasmic Alteration					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	39/50 (78%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	25/25 (100%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/43.68	39/43.38
POLY-3 PERCENT (g)	0%	0%	0%	0%	89.9%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	33/33 (100%)
FIRST INCIDENCE	---	---	---	---	275
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**
RAO-SCOTT	P<0.001**	(e)	(e)	(e)	P<0.001**
LITTER C-A/FISHERS	P=0.000**	(e)	(e)	(e)	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Hepatocyte Necrosis					
LESION RATES					
OVERALL (a)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.00	2/45.16	0/44.39	0/43.68	1/41.36
POLY-3 PERCENT (g)	0%	4.4%	0%	0%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	---	565	---	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.591	P=0.259	(e)	(e)	P=0.502
POLY 1.5	P=0.587	P=0.252	(e)	(e)	P=0.499
POLY 6	P=0.601	P=0.271	(e)	(e)	P=0.508
RAO-SCOTT	P=0.616	P=0.379	(e)	(e)	P=0.599
LITTER C-A/FISHERS	P=0.592	P=0.245	(e)	(e)	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung					
Granuloma					
LESION RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/41.00	0/44.53	0/44.39	2/43.74	1/41.36
POLY-3 PERCENT (g)	4.9%	0%	0%	4.6%	2.4%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	0/31 (0%)	1/34 (3%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	---	---	715	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.557	P=0.219N	P=0.220N	P=0.671N	P=0.497N
POLY 1.5	P=0.561	P=0.224N	P=0.224N	P=0.677N	P=0.502N
POLY 6	P=0.557	P=0.210N	P=0.215N	P=0.662N	P=0.486N
RAO-SCOTT	P=0.587	P=0.303N	P=0.303N	P=0.680N	P=0.533N
LITTER C-A/FISHERS	P=0.587	P=0.245N	P=0.245N	P=0.695	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung Mineral					
LESION RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	2/25 (8%)	3/25 (12%)	0/25 (0%)
POLY-3 RATE (c)	2/41.00	0/44.53	2/44.77	3/45.15	0/41.36
POLY-3 PERCENT (g)	4.9%	0%	4.5%	6.7%	0%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	1/31 (3%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	---	621	141	---
STATISTICAL TESTS					
POLY 3	P=0.308N	P=0.219N	P=0.662N	P=0.544	P=0.235N
POLY 1.5	P=0.306N	P=0.224N	P=0.670N	P=0.532	P=0.238N
POLY 6	P=0.307N	P=0.210N	P=0.653N	P=0.558	P=0.228N
RAO-SCOTT	P=0.335N	P=0.286N	P=0.669N	P=0.565	P=0.293N
LITTER C-A/FISHERS	P=0.282N	P=0.245N	P=0.695	P=0.500	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolar Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	1/44.53	1/44.54	1/43.68	0/41.36
POLY-3 PERCENT (g)	0%	2.3%	2.3%	2.3%	0%
TERMINAL (d)	0/27 (0%)	1/38 (3%)	0/31 (0%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	---	729 (T)	691	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolar Epithelium Hyperplasia Focal					
LESION 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=0.754	(e)	(e)	P=0.411	(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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolus Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	22/49 (45%)	24/50 (48%)	24/50 (48%)	25/50 (50%)	29/50 (58%)
LITTERS (b)	16/25 (64%)	15/25 (60%)	17/25 (68%)	17/25 (68%)	21/25 (84%)
POLY-3 RATE (c)	22/44.89	24/46.72	24/46.73	25/46.27	29/44.53
POLY-3 PERCENT (g)	49%	51.4%	51.4%	54%	65.1%
TERMINAL (d)	10/27 (37%)	19/38 (50%)	14/31 (45%)	18/34 (53%)	23/33 (70%)
FIRST INCIDENCE	375	424	512	414	231
STATISTICAL TESTS					
POLY 3	P=0.057	P=0.493	P=0.494	P=0.393	P=0.087
POLY 1.5	P=0.066	P=0.480	P=0.487	P=0.388	P=0.096
POLY 6	P=0.048*	P=0.520	P=0.497	P=0.397	P=0.078
RAO-SCOTT	P=0.080	P=0.505	P=0.505	P=0.414	P=0.121
LITTER C-A/FISHERS	P=0.043*	P=0.500N	P=0.500	P=0.500	P=0.098

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolus Inflammation					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolus Inflammation Chronic					
LESION RATES					
OVERALL (a)	13/49 (27%)	7/50 (14%)	11/50 (22%)	7/50 (14%)	18/50 (36%)
LITTERS (b)	12/25 (48%)	7/25 (28%)	10/25 (40%)	6/25 (24%)	14/25 (56%)
POLY-3 RATE (c)	13/41.76	7/44.53	11/45.06	7/43.68	18/42.63
POLY-3 PERCENT (g)	31.1%	15.7%	24.4%	16%	42.2%
TERMINAL (d)	7/27 (26%)	7/38 (18%)	8/31 (26%)	7/34 (21%)	15/33 (46%)
FIRST INCIDENCE	630	729 (T)	621	729 (T)	275
STATISTICAL TESTS					
POLY 3	P=0.013*	P=0.072N	P=0.323N	P=0.079N	P=0.200
POLY 1.5	P=0.013*	P=0.080N	P=0.342N	P=0.085N	P=0.190
POLY 6	P=0.013*	P=0.062N	P=0.306N	P=0.074N	P=0.221
RAO-SCOTT	P=0.018*	P=0.085N	P=0.329N	P=0.091N	P=0.212
LITTER C-A/FISHERS	P=0.096	P=0.122N	P=0.388N	P=0.070N	P=0.389

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node, Mandibular Degeneration Cystic					
LESION RATES					
OVERALL (a)	3/49 (6%)	2/49 (4%)	6/50 (12%)	9/48 (19%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	2/25 (8%)	6/25 (24%)	8/25 (32%)	5/25 (20%)
POLY-3 RATE (c)	3/41.03	2/43.63	6/44.73	9/41.92	6/41.36
POLY-3 PERCENT (g)	7.3%	4.6%	13.4%	21.5%	14.5%
TERMINAL (d)	2/27 (7%)	2/38 (5%)	4/31 (13%)	9/33 (27%)	6/33 (18%)
FIRST INCIDENCE	722	729 (T)	636	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.161	P=0.472N	P=0.286	P=0.062	P=0.244
POLY 1.5	P=0.163	P=0.483N	P=0.275	P=0.059	P=0.238
POLY 6	P=0.165	P=0.453N	P=0.297	P=0.066	P=0.259
RAO-SCOTT	P=0.193	P=0.487N	P=0.314	P=0.089	P=0.271
LITTER C-A/FISHERS	P=0.303	P=0.500N	P=0.232	P=0.085	P=0.351

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node, Mandibular Hyperplasia					
LESION RATES					
OVERALL (a)	5/49 (10%)	1/49 (2%)	1/50 (2%)	0/48 (0%)	0/50 (0%)
LITTERS (b)	5/25 (20%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	5/41.22	1/43.63	1/44.39	0/41.92	0/41.36
POLY-3 PERCENT (g)	12.1%	2.3%	2.3%	0%	0%
TERMINAL (d)	3/27 (11%)	1/38 (3%)	1/31 (3%)	0/33 (0%)	0/33 (0%)
FIRST INCIDENCE	686	729 (T)	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.062N	P=0.088N	P=0.084N	P=0.029N*	P=0.030N*
POLY 1.5	P=0.060N	P=0.093N	P=0.088N	P=0.030N*	P=0.031N*
POLY 6	P=0.063N	P=0.080N	P=0.081N	P=0.027N*	P=0.027N*
RAO-SCOTT	P=0.106N	P=0.147N	P=0.143N	P=0.069N	P=0.069N
LITTER C-A/FISHERS	P=0.056N	P=0.095N	P=0.095N	P=0.025N*	P=0.025N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node, Mandibular Hyperplasia Lymphoid					
LESION RATES					
OVERALL (a)	1/49 (2%)	1/49 (2%)	2/50 (4%)	0/48 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.00	1/43.63	2/44.39	0/41.92	0/41.36
POLY-3 PERCENT (g)	2.4%	2.3%	4.5%	0%	0%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	2/31 (7%)	0/33 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.226N	P=0.747N	P=0.528	P=0.496N	P=0.498N
POLY 1.5	P=0.227N	P=0.752N	P=0.521	P=0.499N	P=0.501N
POLY 6	P=0.225N	P=0.737N	P=0.534	P=0.490N	P=0.492N
RAO-SCOTT	P=0.278N	P=0.752N	P=0.558	P=0.552N	P=0.544N
LITTER C-A/FISHERS	P=0.221N	P=0.755	P=0.500	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node: Renal Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	2/5 (40%)	0/0 (0%)	0/3 (0%)	0/2 (0%)	0/2 (0%)
LITTERS (b)	2/5 (40%)	0/0 (0%)	0/3 (0%)	0/2 (0%)	0/2 (0%)
POLY-3 RATE (c)	2/3.97	0/0.00	0/2.72	0/0.92	0/1.15
POLY-3 PERCENT (g)	50.3%	0%	0%	0%	0%
TERMINAL (d)	1/2 (50%)	0/0 (0%)	0/2 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	701	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	P=0.289N	P=0.591N	P=0.539N
POLY 1.5	(e)	(e)	P=0.305N	P=0.515N	P=0.491N
POLY 6	(e)	(e)	P=0.283N	P=0.709N	P=0.618N
RAO-SCOTT	(e)	(e)	P=0.307N	P=0.425N	P=0.425N
LITTER C-A/FISHERS	(e)	(e)	P=0.357N	P=0.476N	P=0.476N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/49 (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	0/43.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/37 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland: Duct Dilation Focal					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/49 (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	0/43.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/37 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland: Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/49 (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	0/43.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/37 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mesentery: Fat Necrosis					
LESION RATES					
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	2/2 (100%)
LITTERS (b)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	2/2 (100%)
POLY-3 RATE (c)	0/0.00	1/1.00	0/0.00	0/0.00	2/2.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)
FIRST INCIDENCE	---	555	---	---	512
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
RAO-SCOTT	(e)	(e)	(e)	(e)	(e)
LITTER C-A/FISHERS	(e)	(e)	(e)	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose					
Foreign Body					
LESION RATES					
OVERALL (a)	1/49 (2%)	2/50 (4%)	0/50 (0%)	4/50 (8%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	1/41.00	2/44.56	0/44.39	4/44.29	1/41.36
POLY-3 PERCENT (g)	2.4%	4.5%	0%	9%	2.4%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	0/31 (0%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	722	---	592	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.617	P=0.529	P=0.484N	P=0.202	P=0.759N
POLY 1.5	P=0.616	P=0.520	P=0.488N	P=0.195	P=0.759
POLY 6	P=0.626	P=0.543	P=0.481N	P=0.213	P=0.752N
RAO-SCOTT	P=0.632	P=0.584	P=0.590N	P=0.289	P=0.768N
LITTER C-A/FISHERS	P=0.626N	P=0.500	P=0.500N	P=0.305	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose Inflammation					
LESION RATES					
OVERALL (a)	2/49 (4%)	6/50 (12%)	1/50 (2%)	7/50 (14%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	5/25 (20%)	1/25 (4%)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	2/41.18	6/44.56	1/44.39	7/43.88	3/41.91
POLY-3 PERCENT (g)	4.9%	13.5%	2.3%	16%	7.2%
TERMINAL (d)	0/27 (0%)	5/38 (13%)	1/31 (3%)	5/34 (15%)	1/33 (3%)
FIRST INCIDENCE	686	722	729 (T)	691	621
STATISTICAL TESTS					
POLY 3	P=0.582	P=0.159	P=0.474N	P=0.093	P=0.508
POLY 1.5	P=0.575	P=0.151	P=0.480N	P=0.090	P=0.500
POLY 6	P=0.575N	P=0.172	P=0.469N	P=0.099	P=0.525
RAO-SCOTT	P=0.583	P=0.215	P=0.516N	P=0.145	P=0.532
LITTER C-A/FISHERS	P=0.545	P=0.209	P=0.500N	P=0.123	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose: Goblet Cell Hyperplasia					
LESION RATES					
OVERALL (a)	2/49 (4%)	1/50 (2%)	1/50 (2%)	5/50 (10%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	5/25 (20%)	1/25 (4%)
POLY-3 RATE (c)	2/41.00	1/44.97	1/44.39	5/43.68	1/41.36
POLY-3 PERCENT (g)	4.9%	2.2%	2.3%	11.5%	2.4%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	1/31 (3%)	5/34 (15%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	603	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.576N	P=0.468N	P=0.472N	P=0.242	P=0.497N
POLY 1.5	P=0.573N	P=0.478N	P=0.479N	P=0.235	P=0.502N
POLY 6	P=0.573N	P=0.452N	P=0.466N	P=0.251	P=0.486N
RAO-SCOTT	P=0.560N	P=0.487N	P=0.490N	P=0.272	P=0.504N
LITTER C-A/FISHERS	P=0.542N	P=0.500N	P=0.500N	P=0.209	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm

Nose: Goblet Cell, Respiratory Epithelium
Hyperplasia

LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose: Respiratory Epithelium					
Ulcer Focal					
<hr/>					
LESION 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	---	---	---	---	---
<hr/>					
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas					
Basophilic Focus					
LESION RATES					
OVERALL (a)	3/49 (6%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	3/41.17	0/44.53	1/44.39	0/43.68	0/41.19
POLY-3 PERCENT (g)	7.3%	0%	2.3%	0%	0%
TERMINAL (d)	2/27 (7%)	0/38 (0%)	1/31 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	686	---	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.185N	P=0.105N	P=0.278N	P=0.108N	P=0.118N
POLY 1.5	P=0.182N	P=0.109N	P=0.284N	P=0.111N	P=0.121N
POLY 6	P=0.189N	P=0.099N	P=0.273N	P=0.104N	P=0.112N
RAO-SCOTT	P=0.272N	P=0.206N	P=0.374N	P=0.208N	P=0.216N
LITTER C-A/FISHERS	P=0.172N	P=0.117N	P=0.305N	P=0.117N	P=0.117N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	1/49 (2%)	3/50 (6%)	4/50 (8%)	1/50 (2%)	1/49 (2%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	4/25 (16%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/41.03	3/44.92	4/44.72	1/43.68	1/41.19
POLY-3 PERCENT (g)	2.4%	6.7%	8.9%	2.3%	2.4%
TERMINAL (d)	0/27 (0%)	2/38 (5%)	3/31 (10%)	1/34 (3%)	1/33 (3%)
FIRST INCIDENCE	722	619	636	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.276N	P=0.338	P=0.205	P=0.747N	P=0.760N
POLY 1.5	P=0.280N	P=0.328	P=0.199	P=0.751N	P=0.757
POLY 6	P=0.268N	P=0.355	P=0.213	P=0.742N	P=0.752N
RAO-SCOTT	P=0.303N	P=0.360	P=0.234	P=0.737N	P=0.745N
LITTER C-A/FISHERS	P=0.262N	P=0.305	P=0.174	P=0.755	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas: Acinus Atrophy					
LESION RATES					
OVERALL (a)	2/49 (4%)	3/50 (6%)	2/50 (4%)	3/50 (6%)	1/49 (2%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	2/25 (8%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	2/41.41	3/44.53	2/44.67	3/44.21	1/41.19
POLY-3 PERCENT (g)	4.8%	6.7%	4.5%	6.8%	2.4%
TERMINAL (d)	1/27 (4%)	3/38 (8%)	1/31 (3%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	611	729 (T)	652	565	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.330N	P=0.533	P=0.667N	P=0.530	P=0.502N
POLY 1.5	P=0.332N	P=0.524	P=0.673N	P=0.521	P=0.507N
POLY 6	P=0.323N	P=0.548	P=0.661N	P=0.541	P=0.492N
RAO-SCOTT	P=0.326N	P=0.523	P=0.652N	P=0.520	P=0.485N
LITTER C-A/FISHERS	P=0.304N	P=0.500	P=0.695	P=0.500	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas: Acinus Hyperplasia					
LESION RATES					
OVERALL (a)	19/49 (39%)	21/50 (42%)	18/50 (36%)	23/50 (46%)	18/49 (37%)
LITTERS (b)	15/25 (60%)	16/25 (64%)	13/25 (52%)	20/25 (80%)	14/25 (56%)
POLY-3 RATE (c)	19/41.70	21/45.00	18/45.31	23/44.79	18/42.39
POLY-3 PERCENT (g)	45.6%	46.7%	39.7%	51.4%	42.5%
TERMINAL (d)	15/27 (56%)	18/38 (47%)	14/31 (45%)	19/34 (56%)	14/33 (42%)
FIRST INCIDENCE	630	632	585	589	519
STATISTICAL TESTS					
POLY 3	P=0.474N	P=0.546	P=0.368N	P=0.371	P=0.473N
POLY 1.5	P=0.497N	P=0.507	P=0.401N	P=0.339	P=0.512N
POLY 6	P=0.428N	P=0.571N	P=0.336N	P=0.419	P=0.408N
RAO-SCOTT	P=0.469N	P=0.539	P=0.370N	P=0.373	P=0.468N
LITTER C-A/FISHERS	P=0.465N	P=0.500	P=0.388N	P=0.108	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Parathyroid Gland Hyperplasia					
LESION RATES					
OVERALL (a)	4/48 (8%)	3/48 (6%)	3/42 (7%)	1/47 (2%)	3/47 (6%)
LITTERS (b)	4/25 (16%)	3/25 (12%)	3/25 (12%)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	4/40.82	3/43.36	3/36.89	1/41.22	3/39.46
POLY-3 PERCENT (g)	9.8%	6.9%	8.1%	2.4%	7.6%
TERMINAL (d)	2/27 (7%)	1/36 (3%)	1/25 (4%)	1/32 (3%)	3/32 (9%)
FIRST INCIDENCE	674	603	621	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.525N	P=0.467N	P=0.556N	P=0.175N	P=0.519N
POLY 1.5	P=0.523N	P=0.480N	P=0.559N	P=0.179N	P=0.522N
POLY 6	P=0.526N	P=0.447N	P=0.556N	P=0.170N	P=0.509N
RAO-SCOTT	P=0.519N	P=0.462N	P=0.545N	P=0.179N	P=0.506N
LITTER C-A/FISHERS	P=0.511N	P=0.500N	P=0.500N	P=0.174N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis Hyperplasia					
LESION RATES					
OVERALL (a)	15/48 (31%)	13/50 (26%)	13/50 (26%)	18/50 (36%)	22/50 (44%)
LITTERS (b)	12/25 (48%)	11/25 (44%)	13/25 (52%)	16/25 (64%)	18/25 (72%)
POLY-3 RATE (c)	15/41.71	13/44.53	13/44.62	18/45.32	22/42.01
POLY-3 PERCENT (g)	36%	29.2%	29.1%	39.7%	52.4%
TERMINAL (d)	9/27 (33%)	13/38 (34%)	11/31 (36%)	13/34 (38%)	19/33 (58%)
FIRST INCIDENCE	560	729 (T)	691	562	621
STATISTICAL TESTS					
POLY 3	P=0.011*	P=0.329N	P=0.327N	P=0.444	P=0.093
POLY 1.5	P=0.012*	P=0.339N	P=0.333N	P=0.422	P=0.095
POLY 6	P=0.012*	P=0.314N	P=0.331N	P=0.472	P=0.099
RAO-SCOTT	P=0.012*	P=0.324N	P=0.322N	P=0.438	P=0.097
LITTER C-A/FISHERS	P=0.025*	P=0.500N	P=0.500	P=0.197	P=0.074

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis Hypertrophy					
LESION RATES					
OVERALL (a)	0/48 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	29/50 (58%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	20/25 (80%)
POLY-3 RATE (c)	0/40.43	0/44.53	0/44.39	0/43.68	29/43.64
POLY-3 PERCENT (g)	0%	0%	0%	0%	66.5%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	24/33 (73%)
FIRST INCIDENCE	---	---	---	---	275
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**
RAO-SCOTT	P<0.001**	(e)	(e)	(e)	P<0.001**
LITTER C-A/FISHERS	P=0.000**	(e)	(e)	(e)	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Intermedia Hyperplasia					
LESION RATES					
OVERALL (a)	3/48 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	3/40.43	1/44.53	0/44.39	1/43.72	2/41.36
POLY-3 PERCENT (g)	7.4%	2.3%	0%	2.3%	4.8%
TERMINAL (d)	3/27 (11%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	---	718	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.487	P=0.271N	P=0.102N	P=0.277N	P=0.490N
POLY 1.5	P=0.491	P=0.279N	P=0.105N	P=0.283N	P=0.495N
POLY 6	P=0.487	P=0.259N	P=0.100N	P=0.270N	P=0.477N
RAO-SCOTT	P=0.506	P=0.317N	P=0.151N	P=0.322N	P=0.506N
LITTER C-A/FISHERS	P=0.509	P=0.305N	P=0.117N	P=0.305N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm

Pituitary Gland: Rathke's Cleft Cyst

LESION RATES

OVERALL (a)	0/48 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.43	2/44.53	0/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	0%	4.5%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	2/38 (5%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	729 (T)	---	---	---

STATISTICAL TESTS

POLY 3	P=0.370N	P=0.259	(e)	(e)	(e)
POLY 1.5	P=0.373N	P=0.254	(e)	(e)	(e)
POLY 6	P=0.362N	P=0.267	(e)	(e)	(e)
RAO-SCOTT	P=0.496N	P=0.409	(e)	(e)	(e)
LITTER C-A/FISHERS	P=0.378N	P=0.245	(e)	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Preputial Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	34/49 (69%)	18/49 (37%)	3/50 (6%)	1/49 (2%)	2/50 (4%)
LITTERS (b)	21/25 (84%)	16/25 (64%)	3/25 (12%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	34/44.56	18/44.28	3/44.72	1/43.15	2/41.36
POLY-3 PERCENT (g)	76.3%	40.7%	6.7%	2.3%	4.8%
TERMINAL (d)	22/27 (82%)	17/38 (45%)	2/31 (7%)	1/34 (3%)	2/33 (6%)
FIRST INCIDENCE	375	632	636	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
RAO-SCOTT	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
LITTER C-A/FISHERS	P<0.001N**	P=0.098N	P<0.001N**	P<0.001N**	P<0.001N**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Preputial Gland: Bilateral, Duct Dilation					
LESION RATES					
OVERALL (a)	35/49 (71%)	16/49 (33%)	3/50 (6%)	2/49 (4%)	3/50 (6%)
LITTERS (b)	23/25 (92%)	13/25 (52%)	3/25 (12%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	35/45.46	16/45.17	3/44.72	2/43.15	3/41.36
POLY-3 PERCENT (g)	77%	35.4%	6.7%	4.6%	7.3%
TERMINAL (d)	20/27 (74%)	14/38 (37%)	2/31 (7%)	2/34 (6%)	3/33 (9%)
FIRST INCIDENCE	506	424	636	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
RAO-SCOTT	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
LITTER C-A/FISHERS	P<0.001N**	P=0.002N**	P<0.001N**	P<0.001N**	P<0.001N**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Preputial Gland: Duct Dilation					
LESION RATES					
OVERALL (a)	35/49 (71%)	16/49 (33%)	3/50 (6%)	2/49 (4%)	3/50 (6%)
LITTERS (b)	23/25 (92%)	13/25 (52%)	3/25 (12%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	35/45.46	16/45.17	3/44.72	2/43.15	3/41.36
POLY-3 PERCENT (g)	77%	35.4%	6.7%	4.6%	7.3%
TERMINAL (d)	20/27 (74%)	14/38 (37%)	2/31 (7%)	2/34 (6%)	3/33 (9%)
FIRST INCIDENCE	506	424	636	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
RAO-SCOTT	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
LITTER C-A/FISHERS	P<0.001N**	P=0.002N**	P<0.001N**	P<0.001N**	P<0.001N**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Preputial Gland: Duct Inflammation					
LESION RATES					
OVERALL (a)	4/49 (8%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	4/42.05	0/43.93	0/44.39	0/43.15	0/41.36
POLY-3 PERCENT (g)	9.5%	0%	0%	0%	0%
TERMINAL (d)	1/27 (4%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	603	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.145N	P=0.054N	P=0.053N	P=0.057N	P=0.062N
POLY 1.5	P=0.142N	P=0.057N	P=0.054N	P=0.058N	P=0.062N
POLY 6	P=0.148N	P=0.051N	P=0.053N	P=0.055N	P=0.060N
RAO-SCOTT	P=0.247N	P=0.147N	P=0.144N	P=0.149N	P=0.153N
LITTER C-A/FISHERS	P=0.139N	P=0.055N	P=0.055N	P=0.055N	P=0.055N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Prostate					
Decreased Secretary Fluid					
LESION RATES					
OVERALL (a)	5/49 (10%)	8/50 (16%)	5/50 (10%)	5/50 (10%)	18/50 (36%)
LITTERS (b)	5/25 (20%)	8/25 (32%)	5/25 (20%)	5/25 (20%)	16/25 (64%)
POLY-3 RATE (c)	5/42.89	8/46.09	5/45.15	5/44.74	18/46.28
POLY-3 PERCENT (g)	11.7%	17.4%	11.1%	11.2%	38.9%
TERMINAL (d)	1/27 (4%)	4/38 (11%)	2/31 (7%)	2/34 (6%)	9/33 (27%)
FIRST INCIDENCE	409	555	644	589	57
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.323	P=0.598N	P=0.604N	P=0.002**
POLY 1.5	P<0.001**	P=0.309	P=0.603N	P=0.610N	P=0.002**
POLY 6	P<0.001**	P=0.350	P=0.593N	P=0.594N	P=0.003**
RAO-SCOTT	P<0.001**	P=0.322	P=0.588N	P=0.594N	P=0.004**
LITTER C-A/FISHERS	P<0.001**	P=0.260	P=0.637	P=0.637	P=0.002**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Prostate: Epithelium, Ventral Hyperplasia Focal					
LESION RATES					
OVERALL (a)	5/49 (10%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	0/25 (0%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	5/41.53	0/44.53	1/44.48	1/43.68	0/41.36
POLY-3 PERCENT (g)	12%	0%	2.3%	2.3%	0%
TERMINAL (d)	3/27 (11%)	0/38 (0%)	0/31 (0%)	1/34 (3%)	0/33 (0%)
FIRST INCIDENCE	654	---	706	729 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.107N	P=0.025N*	P=0.086N	P=0.089N	P=0.030N*
POLY 1.5	P=0.104N	P=0.026N*	P=0.089N	P=0.092N	P=0.031N*
POLY 6	P=0.109N	P=0.023N*	P=0.083N	P=0.086N	P=0.028N*
RAO-SCOTT	P=0.204N	P=0.103N	P=0.197N	P=0.200N	P=0.111N
LITTER C-A/FISHERS	P=0.139N	P=0.055N	P=0.174N	P=0.174N	P=0.055N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Seminal Vesicle Decreased Secretory Fluid					
LESION RATES					
OVERALL (a)	6/49 (12%)	7/50 (14%)	9/50 (18%)	6/50 (12%)	15/49 (31%)
LITTERS (b)	6/25 (24%)	7/25 (28%)	9/25 (36%)	5/25 (20%)	14/25 (56%)
POLY-3 RATE (c)	6/42.70	7/45.45	9/46.04	6/45.48	15/44.71
POLY-3 PERCENT (g)	14.1%	15.4%	19.6%	13.2%	33.6%
TERMINAL (d)	1/27 (4%)	4/38 (11%)	3/31 (10%)	0/34 (0%)	7/33 (21%)
FIRST INCIDENCE	409	603	585	519	275
STATISTICAL TESTS					
POLY 3	P=0.008**	P=0.548	P=0.343	P=0.576N	P=0.027*
POLY 1.5	P=0.007**	P=0.534	P=0.329	P=0.589N	P=0.024*
POLY 6	P=0.009**	P=0.573	P=0.360	P=0.558N	P=0.034*
RAO-SCOTT	P=0.008**	P=0.536	P=0.333	P=0.564N	P=0.029*
LITTER C-A/FISHERS	P=0.010**	P=0.500	P=0.269	P=0.500N	P=0.021*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Seminal Vesicle Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	4/49 (8%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	4/25 (16%)
POLY-3 RATE (c)	0/41.00	1/44.53	0/44.39	0/43.68	4/42.48
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	9.4%
TERMINAL (d)	0/27 (0%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	2/33 (6%)
FIRST INCIDENCE	---	729 (T)	---	---	275
STATISTICAL TESTS					
POLY 3	P=0.003**	P=0.516	(e)	(e)	P=0.064
POLY 1.5	P=0.002**	P=0.511	(e)	(e)	P=0.062
POLY 6	P=0.003**	P=0.525	(e)	(e)	P=0.069
RAO-SCOTT	P=0.017*	P=0.615	(e)	(e)	P=0.138
LITTER C-A/FISHERS	P=0.003**	P=0.500	(e)	(e)	P=0.055

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Cyst Epithelial Inclusion					
LESION RATES					
OVERALL (a)	3/49 (6%)	6/50 (12%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	4/25 (16%)	2/25 (8%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	3/41.11	6/45.05	2/45.12	3/43.92	1/41.36
POLY-3 PERCENT (g)	7.3%	13.3%	4.4%	6.8%	2.4%
TERMINAL (d)	2/27 (7%)	4/38 (11%)	0/31 (0%)	2/34 (6%)	1/33 (3%)
FIRST INCIDENCE	701	632	585	666	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.128N	P=0.289	P=0.458N	P=0.632N	P=0.303N
POLY 1.5	P=0.128N	P=0.273	P=0.469N	P=0.641N	P=0.308N
POLY 6	P=0.124N	P=0.314	P=0.445N	P=0.620N	P=0.292N
RAO-SCOTT	P=0.178N	P=0.342	P=0.498N	P=0.641N	P=0.358N
LITTER C-A/FISHERS	P=0.183N	P=0.500	P=0.500N	P=0.666	P=0.305N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Ulcer					
LESION RATES					
OVERALL (a)	1/49 (2%)	4/50 (8%)	0/50 (0%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	4/25 (16%)	0/25 (0%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	1/41.35	4/44.92	0/44.39	3/44.69	3/41.74
POLY-3 PERCENT (g)	2.4%	8.9%	0%	6.7%	7.2%
TERMINAL (d)	0/27 (0%)	3/38 (8%)	0/31 (0%)	1/34 (3%)	2/33 (6%)
FIRST INCIDENCE	630	619	---	414	621
STATISTICAL TESTS					
POLY 3	P=0.316	P=0.204	P=0.486N	P=0.333	P=0.308
POLY 1.5	P=0.313	P=0.197	P=0.489N	P=0.325	P=0.303
POLY 6	P=0.328	P=0.217	P=0.484N	P=0.343	P=0.319
RAO-SCOTT	P=0.336	P=0.244	P=0.521N	P=0.367	P=0.338
LITTER C-A/FISHERS	P=0.328	P=0.174	P=0.500N	P=0.305	P=0.305

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin: Epidermis Hyperplasia					
LESION RATES					
OVERALL (a)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.00	2/44.53	0/44.39	0/43.68	1/41.36
POLY-3 PERCENT (g)	0%	4.5%	0%	0%	2.4%
TERMINAL (d)	0/27 (0%)	2/38 (5%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	---	729 (T)	---	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.590	P=0.256	(e)	(e)	P=0.502
POLY 1.5	P=0.586	P=0.250	(e)	(e)	P=0.499
POLY 6	P=0.599	P=0.265	(e)	(e)	P=0.508
RAO-SCOTT	P=0.616	P=0.371	(e)	(e)	P=0.596
LITTER C-A/FISHERS	P=0.592	P=0.245	(e)	(e)	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	38/49 (78%)	40/50 (80%)	36/50 (72%)	39/50 (78%)	42/50 (84%)
LITTERS (b)	24/25 (96%)	24/25 (96%)	24/25 (96%)	23/25 (92%)	24/25 (96%)
POLY-3 RATE (c)	38/44.03	40/46.13	36/45.55	39/46.00	42/44.85
POLY-3 PERCENT (g)	86.3%	86.7%	79%	84.8%	93.7%
TERMINAL (d)	27/27 (100%)	36/38 (95%)	28/31 (90%)	31/34 (91%)	33/33 (100%)
FIRST INCIDENCE	506	268	615	565	141
STATISTICAL TESTS					
POLY 3	P=0.069	P=0.612	P=0.242N	P=0.541N	P=0.174
POLY 1.5	P=0.075	P=0.579	P=0.263N	P=0.578N	P=0.175
POLY 6	P=0.085	P=0.658N	P=0.236N	P=0.478N	P=0.213
RAO-SCOTT	P=0.089	P=0.589	P=0.256N	P=0.527N	P=0.201
LITTER C-A/FISHERS	P=0.647N	P=0.755	P=0.755	P=0.500N	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen					
Hyperplasia Lymphoid					
LESION RATES					
OVERALL (a)	3/49 (6%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	3/42.14	2/45.09	1/44.39	0/43.68	0/41.36
POLY-3 PERCENT (g)	7.1%	4.4%	2.3%	0%	0%
TERMINAL (d)	1/27 (4%)	0/38 (0%)	1/31 (3%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	375	619	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.095N	P=0.469N	P=0.286N	P=0.112N	P=0.122N
POLY 1.5	P=0.094N	P=0.479N	P=0.290N	P=0.114N	P=0.123N
POLY 6	P=0.095N	P=0.451N	P=0.283N	P=0.109N	P=0.117N
RAO-SCOTT	P=0.194N	P=0.550N	P=0.411N	P=0.246N	P=0.252N
LITTER C-A/FISHERS	P=0.122N	P=0.305N	P=0.305N	P=0.117N	P=0.117N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen Pigment					
LESION RATES					
OVERALL (a)	45/49 (92%)	44/50 (88%)	42/50 (84%)	44/50 (88%)	43/50 (86%)
LITTERS (b)	25/25 (100%)	24/25 (96%)	24/25 (96%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	45/46.75	44/47.96	42/49.33	44/48.22	43/45.70
POLY-3 PERCENT (g)	96.3%	91.8%	85.2%	91.3%	94.1%
TERMINAL (d)	27/27 (100%)	35/38 (92%)	26/31 (84%)	33/34 (97%)	32/33 (97%)
FIRST INCIDENCE	169	424	284	141	275
STATISTICAL TESTS					
POLY 3	P=0.385	P=0.289N	P=0.050N*	P=0.244N	P=0.501N
POLY 1.5	P=0.426	P=0.349N	P=0.090N	P=0.295N	P=0.508N
POLY 6	P=0.363	P=0.206N	P=0.025N*	P=0.205N	P=0.442N
RAO-SCOTT	P=0.409	P=0.344N	P=0.088N	P=0.313N	P=0.518N
LITTER C-A/FISHERS	P=0.430	P=0.500N	P=0.500N	P=1.000	P=1.000

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen: Lymphoid Follicle Atrophy					
LESION RATES					
OVERALL (a)	5/49 (10%)	2/50 (4%)	4/50 (8%)	5/50 (10%)	2/50 (4%)
LITTERS (b)	5/25 (20%)	2/25 (8%)	4/25 (16%)	5/25 (20%)	2/25 (8%)
POLY-3 RATE (c)	5/43.08	2/45.50	4/45.64	5/45.87	2/42.53
POLY-3 PERCENT (g)	11.6%	4.4%	8.8%	10.9%	4.7%
TERMINAL (d)	1/27 (4%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	169	565	621	414	57
STATISTICAL TESTS					
POLY 3	P=0.323N	P=0.194N	P=0.464N	P=0.590N	P=0.220N
POLY 1.5	P=0.316N	P=0.202N	P=0.474N	P=0.604N	P=0.222N
POLY 6	P=0.326N	P=0.182N	P=0.452N	P=0.572N	P=0.213N
RAO-SCOTT	P=0.317N	P=0.204N	P=0.463N	P=0.585N	P=0.226N
LITTER C-A/FISHERS	P=0.283N	P=0.209N	P=0.500N	P=0.637	P=0.209N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach Inflammation Chronic					
LESION RATES					
OVERALL (a)	2/49 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.08	0/44.53	1/44.72	0/43.68	0/41.36
POLY-3 PERCENT (g)	4.9%	0%	2.2%	0%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	716	---	636	---	---
STATISTICAL TESTS					
POLY 3	P=0.273N	P=0.219N	P=0.470N	P=0.223N	P=0.235N
POLY 1.5	P=0.270N	P=0.225N	P=0.478N	P=0.227N	P=0.238N
POLY 6	P=0.278N	P=0.211N	P=0.463N	P=0.219N	P=0.228N
RAO-SCOTT	P=0.361N	P=0.342N	P=0.545N	P=0.344N	P=0.348N
LITTER C-A/FISHERS	P=0.261N	P=0.245N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach Ulcer					
LESION RATES					
OVERALL (a)	6/49 (12%)	0/50 (0%)	1/50 (2%)	3/50 (6%)	1/50 (2%)
LITTERS (b)	6/25 (24%)	0/25 (0%)	1/25 (4%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	6/42.16	0/44.53	1/44.39	3/45.15	1/41.36
POLY-3 PERCENT (g)	14.2%	0%	2.3%	6.6%	2.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	1/31 (3%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	611	---	729 (T)	414	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.280N	P=0.012N*	P=0.047N*	P=0.208N	P=0.058N
POLY 1.5	P=0.276N	P=0.013N*	P=0.049N*	P=0.217N	P=0.059N
POLY 6	P=0.281N	P=0.011N*	P=0.047N*	P=0.201N	P=0.056N
RAO-SCOTT	P=0.301N	P=0.030N*	P=0.079N	P=0.249N	P=0.090N
LITTER C-A/FISHERS	P=0.250N	P=0.011N*	P=0.049N*	P=0.232N	P=0.049N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach: Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	1/49 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	1/41.00	1/44.53	0/44.39	2/43.85	1/41.36
POLY-3 PERCENT (g)	2.4%	2.3%	0%	4.6%	2.4%
TERMINAL (d)	1/27 (4%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	1/33 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	---	699	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.550	P=0.742N	P=0.484N	P=0.523	P=0.759N
POLY 1.5	P=0.550	P=0.748N	P=0.488N	P=0.517	P=0.759
POLY 6	P=0.555	P=0.733N	P=0.481N	P=0.533	P=0.752N
RAO-SCOTT	P=0.556	P=0.736N	P=0.507N	P=0.532	P=0.744N
LITTER C-A/FISHERS	P=0.573	P=0.755	P=0.500N	P=0.500	P=0.755

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach: Epithelium Hyperplasia Focal					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Glandular Erosion					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	1/43.68	0/41.36
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	1/34 (3%)	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)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Glandular Mineral					
LESION RATES					
OVERALL (a)	1/49 (2%)	1/50 (2%)	5/50 (10%)	5/50 (10%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	5/25 (20%)	5/25 (20%)	0/25 (0%)
POLY-3 RATE (c)	1/41.21	1/44.97	5/45.47	5/45.15	0/41.36
POLY-3 PERCENT (g)	2.4%	2.2%	11%	11.1%	0%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	2/34 (6%)	0/33 (0%)
FIRST INCIDENCE	674	603	621	565	---
STATISTICAL TESTS					
POLY 3	P=0.222N	P=0.741N	P=0.125	P=0.123	P=0.499N
POLY 1.5	P=0.221N	P=0.747N	P=0.118	P=0.116	P=0.502N
POLY 6	P=0.219N	P=0.731N	P=0.134	P=0.133	P=0.494N
RAO-SCOTT	P=0.249N	P=0.742N	P=0.168	P=0.165	P=0.526N
LITTER C-A/FISHERS	P=0.195N	P=0.755	P=0.095	P=0.095	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis					
Edema					
LESION RATES					
OVERALL (a)	2/49 (4%)	3/50 (6%)	2/50 (4%)	2/47 (4%)	18/50 (36%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	2/25 (8%)	2/25 (8%)	15/25 (60%)
POLY-3 RATE (c)	2/41.17	3/44.53	2/44.80	2/40.80	18/42.63
POLY-3 PERCENT (g)	4.9%	6.7%	4.5%	4.9%	42.2%
TERMINAL (d)	1/27 (4%)	3/38 (8%)	1/31 (3%)	2/32 (6%)	15/33 (46%)
FIRST INCIDENCE	686	729 (T)	609	729 (T)	275
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.536	P=0.663N	P=0.691	P<0.001**
POLY 1.5	P<0.001**	P=0.525	P=0.671N	P=0.686	P<0.001**
POLY 6	P<0.001**	P=0.552	P=0.656N	P=0.691N	P<0.001**
RAO-SCOTT	P<0.001**	P=0.542	P=0.660N	P=0.683	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.500	P=0.695	P=0.695	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	16/49 (33%)	21/50 (42%)	15/50 (30%)	11/47 (23%)	14/50 (28%)
LITTERS (b)	12/25 (48%)	14/25 (56%)	12/25 (48%)	9/25 (36%)	11/25 (44%)
POLY-3 RATE (c)	16/42.69	21/45.95	15/45.27	11/41.37	14/42.45
POLY-3 PERCENT (g)	37.5%	45.7%	33.1%	26.6%	33%
TERMINAL (d)	8/27 (30%)	16/38 (42%)	9/31 (29%)	8/32 (25%)	11/33 (33%)
FIRST INCIDENCE	560	603	652	589	519
STATISTICAL TESTS					
POLY 3	P=0.248N	P=0.284	P=0.419N	P=0.199N	P=0.417N
POLY 1.5	P=0.248N	P=0.259	P=0.433N	P=0.205N	P=0.427N
POLY 6	P=0.239N	P=0.325	P=0.410N	P=0.195N	P=0.393N
RAO-SCOTT	P=0.281N	P=0.313	P=0.436N	P=0.233N	P=0.432N
LITTER C-A/FISHERS	P=0.329N	P=0.389	P=0.611	P=0.284N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Bilateral					
Edema					
LESION RATES					
OVERALL (a)	1/49 (2%)	2/50 (4%)	0/50 (0%)	0/47 (0%)	7/50 (14%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	6/25 (24%)
POLY-3 RATE (c)	1/41.00	2/44.53	0/44.39	0/40.80	7/41.69
POLY-3 PERCENT (g)	2.4%	4.5%	0%	0%	16.8%
TERMINAL (d)	1/27 (4%)	2/38 (5%)	0/31 (0%)	0/32 (0%)	5/33 (15%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---	654
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.529	P=0.484N	P=0.501N	P=0.031*
POLY 1.5	P<0.001**	P=0.520	P=0.488N	P=0.504N	P=0.029*
POLY 6	P<0.001**	P=0.543	P=0.481N	P=0.497N	P=0.035*
RAO-SCOTT	P=0.004**	P=0.586	P=0.593N	P=0.602N	P=0.083
LITTER C-A/FISHERS	P=0.002**	P=0.500	P=0.500N	P=0.500N	P=0.049*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Bilateral					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	16/49 (33%)	21/50 (42%)	15/50 (30%)	11/47 (23%)	14/50 (28%)
LITTERS (b)	12/25 (48%)	14/25 (56%)	12/25 (48%)	9/25 (36%)	11/25 (44%)
POLY-3 RATE (c)	16/42.69	21/45.95	15/45.27	11/41.37	14/42.45
POLY-3 PERCENT (g)	37.5%	45.7%	33.1%	26.6%	33%
TERMINAL (d)	8/27 (30%)	16/38 (42%)	9/31 (29%)	8/32 (25%)	11/33 (33%)
FIRST INCIDENCE	560	603	652	589	519
STATISTICAL TESTS					
POLY 3	P=0.248N	P=0.284	P=0.419N	P=0.199N	P=0.417N
POLY 1.5	P=0.248N	P=0.259	P=0.433N	P=0.205N	P=0.427N
POLY 6	P=0.239N	P=0.325	P=0.410N	P=0.195N	P=0.393N
RAO-SCOTT	P=0.281N	P=0.313	P=0.436N	P=0.233N	P=0.432N
LITTER C-A/FISHERS	P=0.329N	P=0.389	P=0.611	P=0.284N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Bilateral, Germinal Epithelium Atrophy					
LESION RATES					
OVERALL (a)	5/49 (10%)	21/50 (42%)	10/50 (20%)	9/47 (19%)	40/50 (80%)
LITTERS (b)	4/25 (16%)	15/25 (60%)	9/25 (36%)	9/25 (36%)	23/25 (92%)
POLY-3 RATE (c)	5/41.83	21/45.63	10/45.29	9/41.72	40/48.52
POLY-3 PERCENT (g)	12%	46%	22.1%	21.6%	82.4%
TERMINAL (d)	2/27 (7%)	17/38 (45%)	6/31 (19%)	6/32 (19%)	27/33 (82%)
FIRST INCIDENCE	560	424	609	414	57
STATISTICAL TESTS					
POLY 3	P<0.001**	P<0.001**	P=0.166	P=0.187	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P=0.158	P=0.181	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.175	P=0.195	P<0.001**
RAO-SCOTT	P<0.001**	P<0.001**	P=0.171	P=0.192	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.002**	P=0.098	P=0.098	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Bilateral, Germinal Epithelium Degeneration					
LESION RATES					
OVERALL (a)	8/49 (16%)	7/50 (14%)	12/50 (24%)	7/47 (15%)	2/50 (4%)
LITTERS (b)	8/25 (32%)	7/25 (28%)	9/25 (36%)	6/25 (24%)	2/25 (8%)
POLY-3 RATE (c)	8/42.77	7/46.87	12/46.21	7/43.45	2/42.46
POLY-3 PERCENT (g)	18.7%	14.9%	26%	16.1%	4.7%
TERMINAL (d)	2/27 (7%)	3/38 (8%)	5/31 (16%)	2/32 (6%)	0/33 (0%)
FIRST INCIDENCE	409	268	585	519	141
STATISTICAL TESTS					
POLY 3	P=0.022N*	P=0.423N	P=0.286	P=0.487N	P=0.045N*
POLY 1.5	P=0.020N*	P=0.445N	P=0.270	P=0.508N	P=0.046N*
POLY 6	P=0.022N*	P=0.394N	P=0.306	P=0.460N	P=0.042N*
RAO-SCOTT	P=0.032N*	P=0.440N	P=0.312	P=0.498N	P=0.067N
LITTER C-A/FISHERS	P=0.016N*	P=0.500N	P=0.500	P=0.377N	P=0.037N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Bilateral, Interstitial Cell Hyperplasia Diffuse					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/47 (0%)	9/50 (18%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	8/25 (32%)
POLY-3 RATE (c)	0/41.00	0/44.53	1/44.54	0/40.80	9/44.21
POLY-3 PERCENT (g)	0%	0%	2.3%	0%	20.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/32 (0%)	5/33 (15%)
FIRST INCIDENCE	---	---	691	---	57
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	P=0.516	(e)	P=0.002**
POLY 1.5	P<0.001**	(e)	P=0.512	(e)	P=0.002**
POLY 6	P<0.001**	(e)	P=0.521	(e)	P=0.003**
RAO-SCOTT	P<0.001**	(e)	P=0.619	(e)	P=0.019*
LITTER C-A/FISHERS	P<0.001**	(e)	P=0.500	(e)	P=0.002**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Bilateral, Interstitial Cell Hyperplasia Focal					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/47 (0%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	0/41.00	1/44.53	0/44.39	0/40.80	3/41.53
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	7.2%
TERMINAL (d)	0/27 (0%)	1/38 (3%)	0/31 (0%)	0/32 (0%)	2/33 (6%)
FIRST INCIDENCE	---	729 (T)	---	---	684
STATISTICAL TESTS					
POLY 3	P=0.018*	P=0.516	(e)	(e)	P=0.120
POLY 1.5	P=0.017*	P=0.511	(e)	(e)	P=0.118
POLY 6	P=0.018*	P=0.525	(e)	(e)	P=0.127
RAO-SCOTT	P=0.056	P=0.622	(e)	(e)	P=0.214
LITTER C-A/FISHERS	P=0.018*	P=0.500	(e)	(e)	P=0.117

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Bilateral, Seminiferous Tubule Dysgenesis					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/40.80	2/42.36
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.7%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/32 (0%)	1/33 (3%)
FIRST INCIDENCE	---	---	---	---	57
STATISTICAL TESTS					
POLY 3	P=0.019*	(e)	(e)	(e)	P=0.244
POLY 1.5	P=0.019*	(e)	(e)	(e)	P=0.241
POLY 6	P=0.019*	(e)	(e)	(e)	P=0.252
RAO-SCOTT	P=0.093	(e)	(e)	(e)	P=0.394
LITTER C-A/FISHERS	P=0.019*	(e)	(e)	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Germinal Epithelium Atrophy					
LESION RATES					
OVERALL (a)	8/49 (16%)	21/50 (42%)	11/50 (22%)	10/47 (21%)	42/50 (84%)
LITTERS (b)	7/25 (28%)	15/25 (60%)	10/25 (40%)	10/25 (40%)	24/25 (96%)
POLY-3 RATE (c)	8/42.11	21/45.63	11/45.29	10/41.72	42/48.72
POLY-3 PERCENT (g)	19%	46%	24.3%	24%	86.2%
TERMINAL (d)	3/27 (11%)	17/38 (45%)	7/31 (23%)	7/32 (22%)	28/33 (85%)
FIRST INCIDENCE	560	424	609	414	57
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.005**	P=0.367	P=0.387	P<0.001**
POLY 1.5	P<0.001**	P=0.005**	P=0.354	P=0.378	P<0.001**
POLY 6	P<0.001**	P=0.006**	P=0.379	P=0.394	P<0.001**
RAO-SCOTT	P<0.001**	P=0.008**	P=0.366	P=0.383	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.023*	P=0.276	P=0.276	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Germinal Epithelium Degeneration					
LESION RATES					
OVERALL (a)	8/49 (16%)	7/50 (14%)	12/50 (24%)	7/47 (15%)	3/50 (6%)
LITTERS (b)	8/25 (32%)	7/25 (28%)	9/25 (36%)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	8/42.77	7/46.87	12/46.21	7/43.45	3/42.63
POLY-3 PERCENT (g)	18.7%	14.9%	26%	16.1%	7%
TERMINAL (d)	2/27 (7%)	3/38 (8%)	5/31 (16%)	2/32 (6%)	0/33 (0%)
FIRST INCIDENCE	409	268	585	519	141
STATISTICAL TESTS					
POLY 3	P=0.049N*	P=0.423N	P=0.286	P=0.487N	P=0.098N
POLY 1.5	P=0.047N*	P=0.445N	P=0.270	P=0.508N	P=0.099N
POLY 6	P=0.049N*	P=0.394N	P=0.306	P=0.460N	P=0.092N
RAO-SCOTT	P=0.063N	P=0.439N	P=0.310	P=0.496N	P=0.123N
LITTER C-A/FISHERS	P=0.042N*	P=0.500N	P=0.500	P=0.377N	P=0.085N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Interstitial Cell Hyperplasia Diffuse					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/47 (0%)	9/50 (18%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	8/25 (32%)
POLY-3 RATE (c)	0/41.00	0/44.53	1/44.54	0/40.80	9/44.21
POLY-3 PERCENT (g)	0%	0%	2.3%	0%	20.4%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/32 (0%)	5/33 (15%)
FIRST INCIDENCE	---	---	691	---	57
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	P=0.516	(e)	P=0.002**
POLY 1.5	P<0.001**	(e)	P=0.512	(e)	P=0.002**
POLY 6	P<0.001**	(e)	P=0.521	(e)	P=0.003**
RAO-SCOTT	P<0.001**	(e)	P=0.619	(e)	P=0.019*
LITTER C-A/FISHERS	P<0.001**	(e)	P=0.500	(e)	P=0.002**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Interstitial Cell Hyperplasia Focal					
LESION RATES					
OVERALL (a)	1/49 (2%)	7/50 (14%)	5/50 (10%)	3/47 (6%)	11/50 (22%)
LITTERS (b)	1/25 (4%)	7/25 (28%)	5/25 (20%)	3/25 (12%)	9/25 (36%)
POLY-3 RATE (c)	1/41.00	7/44.56	5/44.78	3/40.80	11/43.32
POLY-3 PERCENT (g)	2.4%	15.7%	11.2%	7.4%	25.4%
TERMINAL (d)	1/27 (4%)	6/38 (16%)	3/31 (10%)	3/32 (9%)	7/33 (21%)
FIRST INCIDENCE	729 (T)	722	644	729 (T)	275
STATISTICAL TESTS					
POLY 3	P=0.006**	P=0.039*	P=0.122	P=0.303	P=0.002**
POLY 1.5	P=0.006**	P=0.036*	P=0.117	P=0.298	P=0.002**
POLY 6	P=0.007**	P=0.044*	P=0.128	P=0.310	P=0.003**
RAO-SCOTT	P=0.012*	P=0.061	P=0.153	P=0.327	P=0.008**
LITTER C-A/FISHERS	P=0.031*	P=0.024*	P=0.095	P=0.305	P=0.005**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Rete Testis Dilation					
LESION RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/50 (2%)	2/47 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/41.00	1/44.53	1/44.39	2/41.33	0/41.36
POLY-3 PERCENT (g)	0%	2.3%	2.3%	4.8%	0%
TERMINAL (d)	0/27 (0%)	1/38 (3%)	1/31 (3%)	1/32 (3%)	0/33 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	565	---
STATISTICAL TESTS					
POLY 3	P=0.478N	P=0.516	P=0.516	P=0.239	(e)
POLY 1.5	P=0.480N	P=0.511	P=0.512	P=0.234	(e)
POLY 6	P=0.471N	P=0.525	P=0.519	P=0.245	(e)
RAO-SCOTT	P=0.505N	P=0.581	P=0.579	P=0.313	(e)
LITTER C-A/FISHERS	P=0.465N	P=0.500	P=0.500	P=0.245	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Rete Testis					
Fibrosis					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	11/50 (22%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	10/25 (40%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/40.80	11/41.87
POLY-3 PERCENT (g)	0%	0%	0%	0%	26.3%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/32 (0%)	9/33 (27%)
FIRST INCIDENCE	---	---	---	---	595
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**
RAO-SCOTT	P<0.001**	(e)	(e)	(e)	P=0.008**
LITTER C-A/FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Rete Testis Sperm Granuloma					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	0/40.80	2/41.87
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.8%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/32 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---	595
STATISTICAL TESTS					
POLY 3	P=0.019*	(e)	(e)	(e)	P=0.242
POLY 1.5	P=0.019*	(e)	(e)	(e)	P=0.237
POLY 6	P=0.019*	(e)	(e)	(e)	P=0.251
RAO-SCOTT	P=0.091	(e)	(e)	(e)	P=0.391
LITTER C-A/FISHERS	P=0.019*	(e)	(e)	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Testis: Seminiferous Tubule Dysgenesis					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)	9/50 (18%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	7/25 (28%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	1/40.80	9/42.41
POLY-3 PERCENT (g)	0%	0%	0%	2.5%	21.2%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	1/32 (3%)	7/33 (21%)
FIRST INCIDENCE	---	---	---	729 (T)	57
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	P=0.499	P=0.002**
POLY 1.5	P<0.001**	(e)	(e)	P=0.496	P=0.002**
POLY 6	P<0.001**	(e)	(e)	P=0.503	P=0.002**
RAO-SCOTT	P<0.001**	(e)	(e)	P=0.647	P=0.025*
LITTER C-A/FISHERS	P<0.001**	(e)	(e)	P=0.500	P=0.005**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thymus Atrophy					
LESION RATES					
OVERALL (a)	9/48 (19%)	0/46 (0%)	0/45 (0%)	3/49 (6%)	1/49 (2%)
LITTERS (b)	8/25 (32%)	0/25 (0%)	0/25 (0%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	9/43.51	0/42.14	0/39.39	3/44.13	1/40.85
POLY-3 PERCENT (g)	20.7%	0%	0%	6.8%	2.5%
TERMINAL (d)	1/27 (4%)	0/37 (0%)	0/26 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	506	---	---	414	701
STATISTICAL TESTS					
POLY 3	P=0.124N	P=0.002N**	P=0.003N**	P=0.055N	P=0.010N**
POLY 1.5	P=0.124N	P=0.002N**	P=0.002N**	P=0.054N	P=0.010N**
POLY 6	P=0.119N	P=0.002N**	P=0.003N**	P=0.057N	P=0.011N*
RAO-SCOTT	P=0.184N	P=0.012N*	P=0.014N*	P=0.101N	P=0.032N*
LITTER C-A/FISHERS	P=0.167N	P=0.002N**	P=0.002N**	P=0.085N	P=0.012N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Hyperplasia					
LESION RATES					
OVERALL (a)	5/49 (10%)	3/50 (6%)	5/50 (10%)	10/50 (20%)	4/50 (8%)
LITTERS (b)	4/25 (16%)	3/25 (12%)	4/25 (16%)	9/25 (36%)	4/25 (16%)
POLY-3 RATE (c)	5/41.43	3/44.53	5/45.20	10/43.68	4/42.40
POLY-3 PERCENT (g)	12.1%	6.7%	11.1%	22.9%	9.4%
TERMINAL (d)	4/27 (15%)	3/38 (8%)	3/31 (10%)	10/34 (29%)	2/33 (6%)
FIRST INCIDENCE	603	729 (T)	609	729 (T)	275
STATISTICAL TESTS					
POLY 3	P=0.575	P=0.317N	P=0.575N	P=0.151	P=0.485N
POLY 1.5	P=0.573	P=0.328N	P=0.589N	P=0.147	P=0.495N
POLY 6	P=0.570N	P=0.299N	P=0.560N	P=0.158	P=0.467N
RAO-SCOTT	P=0.566N	P=0.344N	P=0.578N	P=0.184	P=0.494N
LITTER C-A/FISHERS	P=0.506	P=0.500N	P=0.649	P=0.098	P=0.649

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: Follicular Cell Hyperplasia					
LESION RATES					
OVERALL (a)	2/49 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.00	1/44.53	1/44.54	0/43.68	0/41.36
POLY-3 PERCENT (g)	4.9%	2.3%	2.3%	0%	0%
TERMINAL (d)	2/27 (7%)	1/38 (3%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	691	---	---
STATISTICAL TESTS					
POLY 3	P=0.192N	P=0.471N	P=0.471N	P=0.223N	P=0.235N
POLY 1.5	P=0.191N	P=0.480N	P=0.478N	P=0.227N	P=0.238N
POLY 6	P=0.193N	P=0.457N	P=0.464N	P=0.218N	P=0.228N
RAO-SCOTT	P=0.249N	P=0.517N	P=0.517N	P=0.301N	P=0.306N
LITTER C-A/FISHERS	P=0.182N	P=0.500N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Trachea: Submucosa Inflammation Chronic					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Urinary Bladder: Urothelium Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/41.00	0/44.53	0/44.39	1/43.80	2/42.48
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	4.7%
TERMINAL (d)	0/27 (0%)	0/38 (0%)	0/31 (0%)	0/34 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	699	275
STATISTICAL TESTS					
POLY 3	P=0.042*	(e)	(e)	P=0.513	P=0.245
POLY 1.5	P=0.042*	(e)	(e)	P=0.509	P=0.240
POLY 6	P=0.044*	(e)	(e)	P=0.519	P=0.253
RAO-SCOTT	P=0.111	(e)	(e)	P=0.623	P=0.361
LITTER C-A/FISHERS	P=0.043*	(e)	(e)	P=0.500	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Degeneration Cystic					
LESION RATES					
OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	5/50 (10%)	3/50 (6%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	4/25 (16%)	5/25 (20%)	3/25 (12%)
POLY-3 RATE (c)	1/41.51	2/42.84	4/38.96	5/42.37	3/38.14
POLY-3 PERCENT (g)	2.4%	4.7%	10.3%	11.8%	7.9%
TERMINAL (d)	0/29 (0%)	2/37 (5%)	1/27 (4%)	3/32 (9%)	3/29 (10%)
FIRST INCIDENCE	630	730 (T)	591	501	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.343	P=0.511	P=0.159	P=0.105	P=0.275
POLY 1.5	P=0.371	P=0.506	P=0.165	P=0.104	P=0.288
POLY 6	P=0.313	P=0.520	P=0.155	P=0.108	P=0.263
RAO-SCOTT	P=0.358	P=0.504	P=0.168	P=0.120	P=0.274
LITTER C-A/FISHERS	P=0.406	P=0.500	P=0.174	P=0.095	P=0.305

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	4/25 (16%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	4/42.91	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	9.3%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	535	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.131N	P=0.060N	P=0.076N	P=0.064N	P=0.076N
POLY 1.5	P=0.132N	P=0.060N	P=0.070N	P=0.062N	P=0.069N
POLY 6	P=0.130N	P=0.059N	P=0.084N	P=0.066N	P=0.085N
RAO-SCOTT	P=0.234N	P=0.146N	P=0.159N	P=0.150N	P=0.159N
LITTER C-A/FISHERS	P=0.139N	P=0.055N	P=0.055N	P=0.055N	P=0.055N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Hemorrhage					
LESION 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	2/41.92	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	4.8%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	629	---
STATISTICAL TESTS					
POLY 3	P=0.697	(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=0.245	(e)
RAO-SCOTT	P=0.727	(e)	(e)	P=0.379	(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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Hyperplasia Focal					
LESION RATES					
OVERALL (a)	26/50 (52%)	27/50 (54%)	23/50 (46%)	23/50 (46%)	25/50 (50%)
LITTERS (b)	19/25 (76%)	19/25 (76%)	16/25 (64%)	18/25 (72%)	17/25 (68%)
POLY-3 RATE (c)	26/44.53	27/44.78	23/42.42	23/43.52	25/43.01
POLY-3 PERCENT (g)	58.4%	60.3%	54.2%	52.9%	58.1%
TERMINAL (d)	17/29 (59%)	22/37 (60%)	13/27 (48%)	18/32 (56%)	16/29 (55%)
FIRST INCIDENCE	302	494	351	533	329
STATISTICAL TESTS					
POLY 3	P=0.546N	P=0.513	P=0.429N	P=0.376N	P=0.579N
POLY 1.5	P=0.513N	P=0.495	P=0.407N	P=0.370N	P=0.547N
POLY 6	P=0.519	P=0.564	P=0.430N	P=0.365N	P=0.584
RAO-SCOTT	P=0.545N	P=0.514	P=0.435N	P=0.388N	P=0.572N
LITTER C-A/FISHERS	P=0.388N	P=0.629	P=0.269N	P=0.500N	P=0.377N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Hypertrophy Focal					
LESION RATES					
OVERALL (a)	23/50 (46%)	34/50 (68%)	29/50 (58%)	27/50 (54%)	24/50 (48%)
LITTERS (b)	21/25 (84%)	22/25 (88%)	21/25 (84%)	20/25 (80%)	17/25 (68%)
POLY-3 RATE (c)	23/43.06	34/46.63	29/40.30	27/42.15	24/41.46
POLY-3 PERCENT (g)	53.4%	72.9%	72%	64.1%	57.9%
TERMINAL (d)	18/29 (62%)	27/37 (73%)	21/27 (78%)	23/32 (72%)	19/29 (66%)
FIRST INCIDENCE	344	400	570	676	438
STATISTICAL TESTS					
POLY 3	P=0.227N	P=0.038*	P=0.053	P=0.209	P=0.420
POLY 1.5	P=0.189N	P=0.028*	P=0.079	P=0.232	P=0.455
POLY 6	P=0.291N	P=0.060	P=0.041*	P=0.199	P=0.386
RAO-SCOTT	P=0.241N	P=0.047*	P=0.065	P=0.217	P=0.415
LITTER C-A/FISHERS	P=0.045N*	P=0.500	P=0.649	P=0.500N	P=0.160N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Karyomegaly					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)	2/50 (4%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	4/25 (16%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	2/43.30	4/38.97	2/41.67	0/38.14
POLY-3 PERCENT (g)	0%	4.6%	10.3%	4.8%	0%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	2/27 (7%)	1/32 (3%)	0/29 (0%)
FIRST INCIDENCE	---	594	597	683	---
STATISTICAL TESTS					
POLY 3	P=0.230N	P=0.248	P=0.053	P=0.240	(e)
POLY 1.5	P=0.216N	P=0.243	P=0.055	P=0.239	(e)
POLY 6	P=0.245N	P=0.257	P=0.052	P=0.243	(e)
RAO-SCOTT	P=0.251N	P=0.305	P=0.088	P=0.292	(e)
LITTER C-A/FISHERS	P=0.194N	P=0.245	P=0.055	P=0.245	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Necrosis					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	1/41.17	0/42.84	0/38.10	2/41.85	2/39.15
POLY-3 PERCENT (g)	2.4%	0%	0%	4.8%	5.1%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	1/32 (3%)	0/29 (0%)
FIRST INCIDENCE	725	---	---	629	473
STATISTICAL TESTS					
POLY 3	P=0.147	P=0.492N	P=0.515N	P=0.506	P=0.482
POLY 1.5	P=0.153	P=0.496N	P=0.510N	P=0.503	P=0.490
POLY 6	P=0.141	P=0.486N	P=0.520N	P=0.511	P=0.478
RAO-SCOTT	P=0.192	P=0.545N	P=0.542N	P=0.533	P=0.505
LITTER C-A/FISHERS	P=0.157	P=0.500N	P=0.500N	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Nuclear Alteration					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.51	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	0%
TERMINAL (d)	1/29 (3%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	630	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.333N	P=0.230N	P=0.256N	P=0.237N	P=0.256N
POLY 1.5	P=0.333N	P=0.233N	P=0.249N	P=0.237N	P=0.248N
POLY 6	P=0.335N	P=0.224N	P=0.263N	P=0.236N	P=0.264N
RAO-SCOTT	P=0.444N	P=0.375N	P=0.381N	P=0.376N	P=0.381N
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex Thrombus					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	1/41.49	2/38.87
POLY-3 PERCENT (g)	0%	0%	0%	2.4%	5.2%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	730 (T)	473
STATISTICAL TESTS					
POLY 3	P=0.039*	(e)	(e)	P=0.502	P=0.224
POLY 1.5	P=0.041*	(e)	(e)	P=0.501	P=0.230
POLY 6	P=0.037*	(e)	(e)	P=0.504	P=0.220
RAO-SCOTT	P=0.097	(e)	(e)	P=0.600	P=0.327
LITTER C-A/FISHERS	P=0.043*	(e)	(e)	P=0.500	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Vacuolization Cytoplasmic					
LESION RATES					
OVERALL (a)	2/50 (4%)	6/50 (12%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	6/25 (24%)	0/25 (0%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	2/41.15	6/43.42	0/38.10	2/41.49	3/38.25
POLY-3 PERCENT (g)	4.9%	13.8%	0%	4.8%	7.8%
TERMINAL (d)	2/29 (7%)	3/37 (8%)	0/27 (0%)	2/32 (6%)	2/29 (7%)
FIRST INCIDENCE	730 (T)	662	---	730 (T)	703
STATISTICAL TESTS					
POLY 3	P=0.574	P=0.150	P=0.254N	P=0.692N	P=0.467
POLY 1.5	P=0.581	P=0.142	P=0.248N	P=0.692N	P=0.480
POLY 6	P=0.568	P=0.165	P=0.259N	P=0.688N	P=0.455
RAO-SCOTT	P=0.535	P=0.173	P=0.261N	P=0.676N	P=0.461
LITTER C-A/FISHERS	P=0.590	P=0.123	P=0.245N	P=0.695	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Cortex					
Vacuolization Cytoplasmic Focal					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Adrenal Medulla Hyperplasia					
LESION RATES					
OVERALL (a)	3/50 (6%)	4/50 (8%)	7/50 (14%)	7/50 (14%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	4/25 (16%)	7/25 (28%)	6/25 (24%)	2/25 (8%)
POLY-3 RATE (c)	3/41.67	4/42.84	7/39.20	7/41.49	2/38.42
POLY-3 PERCENT (g)	7.2%	9.3%	17.9%	16.9%	5.2%
TERMINAL (d)	1/29 (3%)	4/37 (11%)	5/27 (19%)	7/32 (22%)	1/29 (3%)
FIRST INCIDENCE	659	730 (T)	393	730 (T)	655
STATISTICAL TESTS					
POLY 3	P=0.278N	P=0.515	P=0.131	P=0.153	P=0.537N
POLY 1.5	P=0.252N	P=0.509	P=0.141	P=0.156	P=0.521N
POLY 6	P=0.306N	P=0.527	P=0.122	P=0.151	P=0.552N
RAO-SCOTT	P=0.272N	P=0.515	P=0.151	P=0.175	P=0.526N
LITTER C-A/FISHERS	P=0.202N	P=0.500	P=0.145	P=0.232	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Blood Vessel					
Mineral					
LESION 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	1/38.55
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	---	---	---	---	615
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Bone Marrow Hypercellularity					
LESION RATES					
OVERALL (a)	30/50 (60%)	21/50 (42%)	18/50 (36%)	23/50 (46%)	33/50 (66%)
LITTERS (b)	23/25 (92%)	19/25 (76%)	15/25 (60%)	16/25 (64%)	25/25 (100%)
POLY-3 RATE (c)	30/50.00	21/47.73	18/45.91	23/48.79	33/45.87
POLY-3 PERCENT (g)	60%	44%	39.2%	47.1%	71.9%
TERMINAL (d)	9/29 (31%)	12/37 (32%)	3/27 (11%)	7/32 (22%)	20/29 (69%)
FIRST INCIDENCE	302	400	309	326	329
STATISTICAL TESTS					
POLY 3	P=0.007**	P=0.083N	P=0.031N*	P=0.140N	P=0.152
POLY 1.5	P=0.010**	P=0.072N	P=0.023N*	P=0.131N	P=0.216
POLY 6	P=0.004**	P=0.093N	P=0.043N*	P=0.149N	P=0.098
RAO-SCOTT	P=0.008**	P=0.093N	P=0.039N*	P=0.152N	P=0.165
LITTER C-A/FISHERS	P=0.021*	P=0.123N	P=0.009N**	P=0.019N*	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Brain Hemorrhage					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/49 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/42.04	1/42.79	1/38.36	0/41.49	1/38.54
POLY-3 PERCENT (g)	2.4%	2.3%	2.6%	0%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	354	701	659	---	618
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Harderian Gland Atrophy					
LESION RATES					
OVERALL (a)	3/50 (6%)	4/50 (8%)	2/50 (4%)	2/50 (4%)	3/50 (6%)
LITTERS (b)	3/25 (12%)	4/25 (16%)	2/25 (8%)	2/25 (8%)	3/25 (12%)
POLY-3 RATE (c)	3/41.48	4/43.21	2/38.43	2/42.27	3/38.84
POLY-3 PERCENT (g)	7.2%	9.3%	5.2%	4.7%	7.7%
TERMINAL (d)	1/29 (3%)	2/37 (5%)	0/27 (0%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	659	662	675	483	610
STATISTICAL TESTS					
POLY 3	P=0.600	P=0.522	P=0.535N	P=0.491N	P=0.632
POLY 1.5	P=0.590N	P=0.513	P=0.522N	P=0.494N	P=0.645
POLY 6	P=0.588	P=0.540	P=0.544N	P=0.486N	P=0.624
RAO-SCOTT	P=0.574	P=0.509	P=0.509N	P=0.475N	P=0.608
LITTER C-A/FISHERS	P=0.580N	P=0.500	P=0.500N	P=0.500N	P=0.666

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Heart					
Cardiomyopathy					
LESION RATES					
OVERALL (a)	42/50 (84%)	33/50 (66%)	42/50 (84%)	32/50 (64%)	27/50 (54%)
LITTERS (b)	24/25 (96%)	23/25 (92%)	25/25 (100%)	22/25 (88%)	19/25 (76%)
POLY-3 RATE (c)	42/47.96	33/45.86	42/46.73	32/46.70	27/43.54
POLY-3 PERCENT (g)	87.6%	72%	89.9%	68.5%	62%
TERMINAL (d)	24/29 (83%)	27/37 (73%)	25/27 (93%)	21/32 (66%)	17/29 (59%)
FIRST INCIDENCE	302	400	290	326	333
STATISTICAL TESTS					
POLY 3	P=0.002N**	P=0.044N*	P=0.487	P=0.018N*	P=0.002N**
POLY 1.5	P<0.001N**	P=0.037N*	P=0.536	P=0.017N*	P<0.001N**
POLY 6	P=0.004N**	P=0.054N	P=0.430	P=0.022N*	P=0.006N**
RAO-SCOTT	P=0.005N**	P=0.061N	P=0.494	P=0.029N*	P=0.007N**
LITTER C-A/FISHERS	P=0.005N**	P=0.500N	P=0.500	P=0.305N	P=0.049N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Heart					
Mineral					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm

Heart: Atrium
Thrombus

LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Large, Colon					
Parasite Metazoan					
LESION RATES					
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/41.62	1/42.84	1/38.51	0/40.53	0/38.14
POLY-3 PERCENT (g)	4.8%	2.3%	2.6%	0%	0%
TERMINAL (d)	1/29 (3%)	1/37 (3%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	591	730 (T)	610	---	---
STATISTICAL TESTS					
POLY 3	P=0.193N	P=0.490N	P=0.527N	P=0.243N	P=0.257N
POLY 1.5	P=0.189N	P=0.494N	P=0.517N	P=0.242N	P=0.248N
POLY 6	P=0.197N	P=0.481N	P=0.535N	P=0.242N	P=0.265N
RAO-SCOTT	P=0.237N	P=0.522N	P=0.542N	P=0.303N	P=0.306N
LITTER C-A/FISHERS	P=0.182N	P=0.500N	P=0.500N	P=0.245N	P=0.245N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Intestine Large, Rectum Parasite Metazoan					
LESION RATES					
OVERALL (a)	6/50 (12%)	9/50 (18%)	3/50 (6%)	6/49 (12%)	3/50 (6%)
LITTERS (b)	6/25 (24%)	9/25 (36%)	3/25 (12%)	6/25 (24%)	3/25 (12%)
POLY-3 RATE (c)	6/41.15	9/44.18	3/38.10	6/41.25	3/38.14
POLY-3 PERCENT (g)	14.6%	20.4%	7.9%	14.6%	7.9%
TERMINAL (d)	6/29 (21%)	7/37 (19%)	3/27 (11%)	4/32 (13%)	3/29 (10%)
FIRST INCIDENCE	730 (T)	494	730 (T)	610	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.162N	P=0.338	P=0.279N	P=0.621N	P=0.279N
POLY 1.5	P=0.149N	P=0.317	P=0.266N	P=0.616	P=0.263N
POLY 6	P=0.176N	P=0.373	P=0.290N	P=0.605N	P=0.292N
RAO-SCOTT	P=0.163N	P=0.329	P=0.262N	P=0.603N	P=0.261N
LITTER C-A/FISHERS	P=0.121N	P=0.269	P=0.232N	P=0.629	P=0.232N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Islets, Pancreatic Hyperplasia					
LESION RATES					
OVERALL (a)	1/50 (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)	1/41.15	0/42.84	0/38.10	1/41.69	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)	---	---	676	---
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney Inflammation					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney Mineral					
LESION 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	1/38.55
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	---	---	---	---	615
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney					
Nephropathy Chronic Progressive					
LESION RATES					
OVERALL (a)	49/50 (98%)	46/50 (92%)	48/50 (96%)	46/50 (92%)	49/50 (98%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)	25/25 (100%)
POLY-3 RATE (c)	49/49.54	46/48.33	48/48.17	46/48.30	49/49.44
POLY-3 PERCENT (g)	98.9%	95.2%	99.6%	95.2%	99.1%
TERMINAL (d)	29/29 (100%)	36/37 (97%)	27/27 (100%)	32/32 (100%)	29/29 (100%)
FIRST INCIDENCE	302	400	309	326	329
STATISTICAL TESTS					
POLY 3	P=0.450	P=0.284N	P=0.876	P=0.287N	P=0.901
POLY 1.5	P=0.416	P=0.250N	P=0.845	P=0.239N	P=0.825
POLY 6	P=0.470	P=0.316N	P=0.994	P=0.342N	P=0.995
RAO-SCOTT	P=0.488	P=0.360N	P=0.812	P=0.366N	P=0.844
LITTER C-A/FISHERS	(e)	P=1.000	P=1.000	P=1.000	P=1.000

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Bilateral Inflammation					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Pelvis Dilation					
LESION 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	1/38.55	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	2.6%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	597	---	---
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Pelvis Inflammation Chronic					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Renal Tubule Cyst					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	1/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	0/27 (0%)	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Kidney: Renal Tubule Inflammation Acute					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Angiectasis Focal					
LESION RATES					
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	3/25 (12%)	0/25 (0%)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	0/41.15	3/43.68	0/38.10	1/41.91	3/38.14
POLY-3 PERCENT (g)	0%	6.9%	0%	2.4%	7.9%
TERMINAL (d)	0/29 (0%)	2/37 (5%)	0/27 (0%)	0/32 (0%)	3/29 (10%)
FIRST INCIDENCE	---	400	---	610	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.133	P=0.129	(e)	P=0.504	P=0.105
POLY 1.5	P=0.137	P=0.125	(e)	P=0.502	P=0.111
POLY 6	P=0.130	P=0.136	(e)	P=0.507	P=0.100
RAO-SCOTT	P=0.162	P=0.192	(e)	P=0.553	P=0.156
LITTER C-A/FISHERS	P=0.139	P=0.117	(e)	P=0.500	P=0.117

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Basophilic Focus					
LESION RATES					
OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	4/50 (8%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	2/25 (8%)	4/25 (16%)	1/25 (4%)
POLY-3 RATE (c)	4/41.73	3/43.30	2/38.10	4/42.47	1/38.14
POLY-3 PERCENT (g)	9.6%	6.9%	5.3%	9.4%	2.6%
TERMINAL (d)	1/29 (3%)	2/37 (5%)	2/27 (7%)	2/32 (6%)	1/29 (3%)
FIRST INCIDENCE	659	594	730 (T)	501	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.227N	P=0.480N	P=0.379N	P=0.634N	P=0.206N
POLY 1.5	P=0.212N	P=0.488N	P=0.363N	P=0.637N	P=0.194N
POLY 6	P=0.245N	P=0.465N	P=0.396N	P=0.629N	P=0.219N
RAO-SCOTT	P=0.246N	P=0.493N	P=0.394N	P=0.629N	P=0.235N
LITTER C-A/FISHERS	P=0.245N	P=0.666	P=0.500N	P=0.500	P=0.305N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Clear Cell Focus					
LESION RATES					
OVERALL (a)	11/50 (22%)	8/50 (16%)	8/50 (16%)	10/50 (20%)	4/50 (8%)
LITTERS (b)	9/25 (36%)	8/25 (32%)	8/25 (32%)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	11/41.41	8/43.10	8/38.10	10/41.49	4/38.14
POLY-3 PERCENT (g)	26.6%	18.6%	21%	24.1%	10.5%
TERMINAL (d)	10/29 (35%)	7/37 (19%)	8/27 (30%)	10/32 (31%)	4/29 (14%)
FIRST INCIDENCE	662	662	730 (T)	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.087N	P=0.267N	P=0.375N	P=0.498N	P=0.058N
POLY 1.5	P=0.074N	P=0.283N	P=0.348N	P=0.498N	P=0.052N
POLY 6	P=0.104N	P=0.240N	P=0.400N	P=0.493N	P=0.065N
RAO-SCOTT	P=0.097N	P=0.283N	P=0.378N	P=0.496N	P=0.074N
LITTER C-A/FISHERS	P=0.071N	P=0.500N	P=0.500N	P=0.500N	P=0.098N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Degeneration Cystic					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Eosinophilic Focus					
LESION RATES					
OVERALL (a)	2/50 (4%)	2/50 (4%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	4/25 (16%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	2/41.15	2/42.84	4/38.31	3/42.17	3/38.14
POLY-3 PERCENT (g)	4.9%	4.7%	10.4%	7.1%	7.9%
TERMINAL (d)	2/29 (7%)	2/37 (5%)	3/27 (11%)	2/32 (6%)	3/29 (10%)
FIRST INCIDENCE	730 (T)	730 (T)	675	501	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.444	P=0.680N	P=0.303	P=0.511	P=0.465
POLY 1.5	P=0.467	P=0.686N	P=0.315	P=0.507	P=0.480
POLY 6	P=0.419	P=0.668N	P=0.295	P=0.519	P=0.453
RAO-SCOTT	P=0.441	P=0.660N	P=0.293	P=0.496	P=0.444
LITTER C-A/FISHERS	P=0.498	P=0.695	P=0.334	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	3/50 (6%)	3/50 (6%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	3/25 (12%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	2/41.51	0/42.84	3/39.28	3/43.63	3/40.01
POLY-3 PERCENT (g)	4.8%	0%	7.6%	6.9%	7.5%
TERMINAL (d)	1/29 (3%)	0/37 (0%)	1/27 (4%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	630	---	448	326	333
STATISTICAL TESTS					
POLY 3	P=0.254	P=0.230N	P=0.475	P=0.523	P=0.483
POLY 1.5	P=0.266	P=0.233N	P=0.483	P=0.516	P=0.491
POLY 6	P=0.241	P=0.224N	P=0.469	P=0.531	P=0.477
RAO-SCOTT	P=0.275	P=0.251N	P=0.470	P=0.523	P=0.480
LITTER C-A/FISHERS	P=0.275	P=0.245N	P=0.500	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Fatty Change Focal					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	5/50 (10%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	5/25 (20%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	1/42.84	2/38.10	5/41.49	0/38.14
POLY-3 PERCENT (g)	0%	2.3%	5.3%	12.1%	0%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	2/27 (7%)	5/32 (16%)	0/29 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	730 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.475N	P=0.508	P=0.220	P=0.031*	(e)
POLY 1.5	P=0.451N	P=0.505	P=0.226	P=0.031*	(e)
POLY 6	P=0.501N	P=0.514	P=0.215	P=0.031*	(e)
RAO-SCOTT	P=0.461N	P=0.556	P=0.269	P=0.064	(e)
LITTER C-A/FISHERS	P=0.419N	P=0.500	P=0.245	P=0.025*	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Hepatodiaphragmatic Nodule					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	1/42.84	1/38.64	2/41.49	1/38.14
POLY-3 PERCENT (g)	0%	2.3%	2.6%	4.8%	2.6%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	0/27 (0%)	2/32 (6%)	1/29 (3%)
FIRST INCIDENCE	---	730 (T)	564	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.486	P=0.508	P=0.487	P=0.239	P=0.485
POLY 1.5	P=0.503	P=0.505	P=0.492	P=0.238	P=0.491
POLY 6	P=0.469	P=0.514	P=0.485	P=0.241	P=0.479
RAO-SCOTT	P=0.486	P=0.511	P=0.473	P=0.258	P=0.469
LITTER C-A/FISHERS	P=0.524	P=0.500	P=0.500	P=0.245	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Inflammation Chronic					
LESION RATES					
OVERALL (a)	3/50 (6%)	3/50 (6%)	2/50 (4%)	3/50 (6%)	4/50 (8%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	2/25 (8%)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	3/41.63	3/43.68	2/38.31	3/41.96	4/39.82
POLY-3 PERCENT (g)	7.2%	6.9%	5.2%	7.2%	10%
TERMINAL (d)	2/29 (7%)	2/37 (5%)	1/27 (4%)	2/32 (6%)	1/29 (3%)
FIRST INCIDENCE	588	400	675	591	473
STATISTICAL TESTS					
POLY 3	P=0.326	P=0.640N	P=0.538N	P=0.659N	P=0.476
POLY 1.5	P=0.336	P=0.649N	P=0.524N	P=0.660N	P=0.486
POLY 6	P=0.317	P=0.627N	P=0.549N	P=0.655N	P=0.470
RAO-SCOTT	P=0.311	P=0.622N	P=0.508N	P=0.638N	P=0.454
LITTER C-A/FISHERS	P=0.342	P=0.666	P=0.500N	P=0.666	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Mixed Cell Focus					
LESION RATES					
OVERALL (a)	3/50 (6%)	5/50 (10%)	4/50 (8%)	8/50 (16%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	5/25 (20%)	4/25 (16%)	6/25 (24%)	0/25 (0%)
POLY-3 RATE (c)	3/41.15	5/42.84	4/38.10	8/41.49	0/38.14
POLY-3 PERCENT (g)	7.3%	11.7%	10.5%	19.3%	0%
TERMINAL (d)	3/29 (10%)	5/37 (14%)	4/27 (15%)	8/32 (25%)	0/29 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.082N	P=0.378	P=0.458	P=0.098	P=0.132N
POLY 1.5	P=0.073N	P=0.369	P=0.473	P=0.099	P=0.126N
POLY 6	P=0.094N	P=0.396	P=0.445	P=0.100	P=0.137N
RAO-SCOTT	P=0.103N	P=0.402	P=0.465	P=0.134	P=0.167N
LITTER C-A/FISHERS	P=0.047N*	P=0.351	P=0.500	P=0.232	P=0.117N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver					
Polyarteritis Nodosa					
LESION 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=0.378	(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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Bile Duct Cyst					
LESION RATES					
OVERALL (a)	6/50 (12%)	2/50 (4%)	2/50 (4%)	5/50 (10%)	1/50 (2%)
LITTERS (b)	6/25 (24%)	2/25 (8%)	2/25 (8%)	5/25 (20%)	1/25 (4%)
POLY-3 RATE (c)	6/41.38	2/42.84	2/38.35	5/41.49	1/38.14
POLY-3 PERCENT (g)	14.5%	4.7%	5.2%	12.1%	2.6%
TERMINAL (d)	5/29 (17%)	2/37 (5%)	1/27 (4%)	5/32 (16%)	1/29 (3%)
FIRST INCIDENCE	669	730 (T)	662	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.182N	P=0.120N	P=0.157N	P=0.498N	P=0.068N
POLY 1.5	P=0.168N	P=0.126N	P=0.148N	P=0.498N	P=0.063N
POLY 6	P=0.200N	P=0.112N	P=0.163N	P=0.495N	P=0.074N
RAO-SCOTT	P=0.190N	P=0.140N	P=0.171N	P=0.495N	P=0.083N
LITTER C-A/FISHERS	P=0.146N	P=0.123N	P=0.123N	P=0.500N	P=0.049N*

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Bile Duct Hyperplasia					
LESION RATES					
OVERALL (a)	5/50 (10%)	11/50 (22%)	6/50 (12%)	6/50 (12%)	12/50 (24%)
LITTERS (b)	5/25 (20%)	10/25 (40%)	6/25 (24%)	5/25 (20%)	10/25 (40%)
POLY-3 RATE (c)	5/41.53	11/43.68	6/39.30	6/41.92	12/39.27
POLY-3 PERCENT (g)	12%	25.2%	15.3%	14.3%	30.6%
TERMINAL (d)	4/29 (14%)	10/37 (27%)	4/27 (15%)	4/32 (13%)	10/29 (35%)
FIRST INCIDENCE	624	400	290	629	547
STATISTICAL TESTS					
POLY 3	P=0.062	P=0.099	P=0.461	P=0.507	P=0.035*
POLY 1.5	P=0.071	P=0.093	P=0.477	P=0.504	P=0.042*
POLY 6	P=0.055	P=0.109	P=0.448	P=0.515	P=0.030*
RAO-SCOTT	P=0.066	P=0.112	P=0.451	P=0.498	P=0.045*
LITTER C-A/FISHERS	P=0.176	P=0.108	P=0.500	P=0.637	P=0.108

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Hepatocyte Cytoplasmic Alteration					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	40/50 (80%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	24/25 (96%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	1/41.91	40/45.12
POLY-3 PERCENT (g)	0%	0%	0%	2.4%	88.7%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	27/29 (93%)
FIRST INCIDENCE	---	---	---	610	333
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	P=0.504	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.502	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.507	P<0.001**
RAO-SCOTT	P<0.001**	(e)	(e)	P=0.436	P<0.001**
LITTER C-A/FISHERS	P=0.000**	(e)	(e)	P=0.500	P<0.001**

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Liver: Hepatocyte Necrosis					
LESION RATES					
OVERALL (a)	4/50 (8%)	6/50 (12%)	3/50 (6%)	1/50 (2%)	5/50 (10%)
LITTERS (b)	4/25 (16%)	6/25 (24%)	3/25 (12%)	1/25 (4%)	5/25 (20%)
POLY-3 RATE (c)	4/43.43	6/44.14	3/38.98	1/42.20	5/41.02
POLY-3 PERCENT (g)	9.2%	13.6%	7.7%	2.4%	12.2%
TERMINAL (d)	0/29 (0%)	4/37 (11%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	354	400	524	483	329
STATISTICAL TESTS					
POLY 3	P=0.487	P=0.379	P=0.559N	P=0.187N	P=0.464
POLY 1.5	P=0.495	P=0.375	P=0.538N	P=0.184N	P=0.479
POLY 6	P=0.479	P=0.390	P=0.577N	P=0.189N	P=0.452
RAO-SCOTT	P=0.470	P=0.383	P=0.544N	P=0.195N	P=0.458
LITTER C-A/FISHERS	P=0.501	P=0.363	P=0.500N	P=0.174N	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung					
Granuloma					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.46	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	2.4%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	646	---	---	---	---
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung					
Mineral					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolar Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	2/38.85	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	5.2%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	564	---	---
STATISTICAL TESTS					
POLY 3	P=0.509N	(e)	P=0.224	(e)	(e)
POLY 1.5	P=0.500N	(e)	P=0.228	(e)	(e)
POLY 6	P=0.518N	(e)	P=0.222	(e)	(e)
RAO-SCOTT	P=0.577N	(e)	P=0.376	(e)	(e)
LITTER C-A/FISHERS	P=0.483N	(e)	P=0.245	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolar Epithelium Hyperplasia Focal					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolus Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	43/50 (86%)	47/50 (94%)	44/50 (88%)	41/50 (82%)	47/50 (94%)
LITTERS (b)	25/25 (100%)	25/25 (100%)	25/25 (100%)	23/25 (92%)	25/25 (100%)
POLY-3 RATE (c)	43/48.02	47/48.63	44/48.20	41/47.89	47/47.50
POLY-3 PERCENT (g)	89.5%	96.7%	91.3%	85.6%	99%
TERMINAL (d)	26/29 (90%)	36/37 (97%)	24/27 (89%)	27/32 (84%)	29/29 (100%)
FIRST INCIDENCE	302	281	290	326	333
STATISTICAL TESTS					
POLY 3	P=0.103	P=0.143	P=0.523	P=0.387N	P=0.042*
POLY 1.5	P=0.133	P=0.143	P=0.509	P=0.386N	P=0.063
POLY 6	P=0.100	P=0.157	P=0.551	P=0.388N	P=0.042*
RAO-SCOTT	P=0.146	P=0.198	P=0.537	P=0.416N	P=0.088
LITTER C-A/FISHERS	P=0.731N	P=1.000	P=1.000	P=0.245N	P=1.000

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolus Inflammation					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	2/39.33
POLY-3 PERCENT (g)	0%	0%	0%	0%	5.1%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	438
STATISTICAL TESTS					
POLY 3	P=0.018*	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.019*	(e)	(e)	(e)	P=0.231
POLY 6	P=0.018*	(e)	(e)	(e)	P=0.224
RAO-SCOTT	P=0.088	(e)	(e)	(e)	P=0.377
LITTER C-A/FISHERS	P=0.019*	(e)	(e)	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lung: Alveolus Inflammation Chronic					
LESION RATES					
OVERALL (a)	34/50 (68%)	41/50 (82%)	33/50 (66%)	36/50 (72%)	39/50 (78%)
LITTERS (b)	22/25 (88%)	24/25 (96%)	22/25 (88%)	23/25 (92%)	22/25 (88%)
POLY-3 RATE (c)	34/45.57	41/45.99	33/44.54	36/47.09	39/44.89
POLY-3 PERCENT (g)	74.6%	89.2%	74.1%	76.4%	86.9%
TERMINAL (d)	24/29 (83%)	34/37 (92%)	19/27 (70%)	23/32 (72%)	26/29 (90%)
FIRST INCIDENCE	302	466	309	326	448
STATISTICAL TESTS					
POLY 3	P=0.179	P=0.048*	P=0.577N	P=0.515	P=0.094
POLY 1.5	P=0.202	P=0.052	P=0.556N	P=0.472	P=0.116
POLY 6	P=0.173	P=0.058	P=0.571N	P=0.589	P=0.091
RAO-SCOTT	P=0.197	P=0.068	P=0.568N	P=0.514	P=0.119
LITTER C-A/FISHERS	P=0.452N	P=0.305	P=0.666	P=0.500	P=0.666

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node, Mandibular Degeneration Cystic					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/40.63	0/42.84	0/38.10	0/39.49	0/37.79
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/30 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node, Mandibular Hyperplasia					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	2/50 (4%)	1/48 (2%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/40.63	0/42.84	2/38.10	1/40.34	0/37.79
POLY-3 PERCENT (g)	0%	0%	5.3%	2.5%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	2/27 (7%)	0/30 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	730 (T)	388	---
STATISTICAL TESTS					
POLY 3	P=0.534N	(e)	P=0.223	P=0.499	(e)
POLY 1.5	P=0.520N	(e)	P=0.230	P=0.498	(e)
POLY 6	P=0.549N	(e)	P=0.217	P=0.500	(e)
RAO-SCOTT	P=0.552N	(e)	P=0.326	P=0.604	(e)
LITTER C-A/FISHERS	P=0.495N	(e)	P=0.245	P=0.500	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node, Mandibular Hyperplasia Lymphoid					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	1/48 (2%)	1/49 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/40.63	0/42.84	1/38.10	1/39.84	1/38.58
POLY-3 PERCENT (g)	0%	0%	2.6%	2.5%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	1/27 (4%)	0/30 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	730 (T)	631	438
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Lymph Node: Renal Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/5 (0%)	0/1 (0%)
LITTERS (b)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/5 (0%)	0/1 (0%)
POLY-3 RATE (c)	0/0.00	0/0.00	0/0.00	0/3.51	0/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/3 (0%)	0/1 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	2/38.10	0/40.53	0/38.14
POLY-3 PERCENT (g)	0%	0%	5.3%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	2/27 (7%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	730 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.513N	(e)	P=0.220	(e)	(e)
POLY 1.5	P=0.501N	(e)	P=0.226	(e)	(e)
POLY 6	P=0.524N	(e)	P=0.215	(e)	(e)
RAO-SCOTT	P=0.569N	(e)	P=0.358	(e)	(e)
LITTER C-A/FISHERS	P=0.483N	(e)	P=0.245	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland: Duct Dilation Focal					
LESION RATES					
OVERALL (a)	3/50 (6%)	8/50 (16%)	8/50 (16%)	7/49 (14%)	5/50 (10%)
LITTERS (b)	3/25 (12%)	7/25 (28%)	7/25 (28%)	6/25 (24%)	4/25 (16%)
POLY-3 RATE (c)	3/41.48	8/42.84	8/39.04	7/40.99	5/38.56
POLY-3 PERCENT (g)	7.2%	18.7%	20.5%	17.1%	13%
TERMINAL (d)	2/29 (7%)	8/37 (22%)	5/27 (19%)	6/32 (19%)	4/29 (14%)
FIRST INCIDENCE	640	730 (T)	591	591	610
STATISTICAL TESTS					
POLY 3	P=0.490N	P=0.107	P=0.077	P=0.150	P=0.315
POLY 1.5	P=0.461N	P=0.103	P=0.084	P=0.150	P=0.332
POLY 6	P=0.520N	P=0.114	P=0.074	P=0.153	P=0.301
RAO-SCOTT	P=0.486N	P=0.143	P=0.109	P=0.187	P=0.339
LITTER C-A/FISHERS	P=0.349N	P=0.145	P=0.145	P=0.232	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland: Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	3/25 (12%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	3/38.10	0/40.53	0/38.14
POLY-3 PERCENT (g)	0%	0%	7.9%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	3/27 (11%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	730 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.408N	(e)	P=0.105	(e)	(e)
POLY 1.5	P=0.394N	(e)	P=0.110	(e)	(e)
POLY 6	P=0.423N	(e)	P=0.101	(e)	(e)
RAO-SCOTT	P=0.478N	(e)	P=0.231	(e)	(e)
LITTER C-A/FISHERS	P=0.372N	(e)	P=0.117	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Mesentery: Fat Necrosis					
LESION RATES					
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/1 (0%)
LITTERS (b)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/1 (0%)
POLY-3 RATE (c)	0/0.00	0/0.00	0/0.00	0/1.00	0/0.22
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/0 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose					
Foreign Body					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	2/39.33
POLY-3 PERCENT (g)	0%	0%	0%	0%	5.1%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---	438
STATISTICAL TESTS					
POLY 3	P=0.018*	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.019*	(e)	(e)	(e)	P=0.231
POLY 6	P=0.018*	(e)	(e)	(e)	P=0.224
RAO-SCOTT	P=0.088	(e)	(e)	(e)	P=0.377
LITTER C-A/FISHERS	P=0.019*	(e)	(e)	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose Inflammation					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	0/41.15	0/42.84	1/38.36	2/41.80	2/39.33
POLY-3 PERCENT (g)	0%	0%	2.6%	4.8%	5.1%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	1/32 (3%)	0/29 (0%)
FIRST INCIDENCE	---	---	659	646	438
STATISTICAL TESTS					
POLY 3	P=0.118	(e)	P=0.486	P=0.240	P=0.227
POLY 1.5	P=0.124	(e)	P=0.491	P=0.239	P=0.231
POLY 6	P=0.111	(e)	P=0.483	P=0.244	P=0.224
RAO-SCOTT	P=0.172	(e)	P=0.528	P=0.312	P=0.291
LITTER C-A/FISHERS	P=0.129	(e)	P=0.500	P=0.245	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose: Goblet Cell Hyperplasia					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.15	0/42.84	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	2.4%	0%	0%	0%	0%
TERMINAL (d)	1/29 (3%)	0/37 (0%)	0/27 (0%)	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose: Goblet Cell, Respiratory Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	1/42.40	2/38.14
POLY-3 PERCENT (g)	0%	0%	0%	2.4%	5.2%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	2/29 (7%)
FIRST INCIDENCE	---	---	---	326	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.038*	(e)	(e)	P=0.506	P=0.220
POLY 1.5	P=0.041*	(e)	(e)	P=0.504	P=0.227
POLY 6	P=0.035*	(e)	(e)	P=0.509	P=0.214
RAO-SCOTT	P=0.096	(e)	(e)	P=0.615	P=0.328
LITTER C-A/FISHERS	P=0.043*	(e)	(e)	P=0.500	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Nose: Respiratory Epithelium					
Ulcer Focal					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	1/43.05	2/38.81	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	2.3%	5.2%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	675	597	---	---
STATISTICAL TESTS					
POLY 3	P=0.350N	P=0.509	P=0.224	(e)	(e)
POLY 1.5	P=0.343N	P=0.505	P=0.228	(e)	(e)
POLY 6	P=0.356N	P=0.516	P=0.222	(e)	(e)
RAO-SCOTT	P=0.414N	P=0.613	P=0.327	(e)	(e)
LITTER C-A/FISHERS	P=0.331N	P=0.500	P=0.245	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Ovary: Bursa Cyst					
LESION RATES					
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	2/49 (4%)	5/50 (10%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	3/25 (12%)	2/25 (8%)	5/25 (20%)
POLY-3 RATE (c)	2/41.69	2/42.84	3/39.06	2/40.83	5/38.42
POLY-3 PERCENT (g)	4.8%	4.7%	7.7%	4.9%	13%
TERMINAL (d)	1/29 (3%)	2/37 (5%)	1/27 (4%)	1/32 (3%)	4/29 (14%)
FIRST INCIDENCE	564	730 (T)	543	646	654
STATISTICAL TESTS					
POLY 3	P=0.095	P=0.684N	P=0.470	P=0.687	P=0.182
POLY 1.5	P=0.105	P=0.688N	P=0.480	P=0.687	P=0.196
POLY 6	P=0.087	P=0.676N	P=0.464	P=0.690	P=0.171
RAO-SCOTT	P=0.101	P=0.669N	P=0.458	P=0.669	P=0.189
LITTER C-A/FISHERS	P=0.110	P=0.695	P=0.500	P=0.695	P=0.209

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Ovary: Follicle Cyst					
LESION RATES					
OVERALL (a)	3/50 (6%)	5/50 (10%)	2/50 (4%)	3/49 (6%)	5/50 (10%)
LITTERS (b)	3/25 (12%)	5/25 (20%)	2/25 (8%)	3/25 (12%)	5/25 (20%)
POLY-3 RATE (c)	3/41.38	5/43.85	2/38.10	3/40.71	5/38.14
POLY-3 PERCENT (g)	7.3%	11.4%	5.3%	7.4%	13.1%
TERMINAL (d)	2/29 (7%)	3/37 (8%)	2/27 (7%)	2/32 (6%)	5/29 (17%)
FIRST INCIDENCE	669	564	730 (T)	683	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.272	P=0.388	P=0.538N	P=0.655	P=0.311
POLY 1.5	P=0.290	P=0.375	P=0.524N	P=0.655	P=0.330
POLY 6	P=0.254	P=0.411	P=0.550N	P=0.660	P=0.293
RAO-SCOTT	P=0.256	P=0.385	P=0.514N	P=0.637	P=0.303
LITTER C-A/FISHERS	P=0.303	P=0.351	P=0.500N	P=0.666	P=0.351

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas					
Basophilic Focus					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (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	0/42.68	0/38.10	0/40.53	1/38.14
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	1/29 (3%)
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas					
Polyarteritis Nodosa					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	1/49 (2%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	1/42.68	0/38.10	1/40.53	1/38.14
POLY-3 PERCENT (g)	0%	2.3%	0%	2.5%	2.6%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	0/27 (0%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	---	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas: Acinus Atrophy					
LESION RATES					
OVERALL (a)	1/50 (2%)	2/49 (4%)	2/50 (4%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/41.53	2/42.68	2/38.51	0/40.53	0/38.14
POLY-3 PERCENT (g)	2.4%	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	624	730 (T)	610	---	---
STATISTICAL TESTS					
POLY 3	P=0.171N	P=0.510	P=0.474	P=0.505N	P=0.517N
POLY 1.5	P=0.166N	P=0.503	P=0.483	P=0.504N	P=0.510N
POLY 6	P=0.176N	P=0.519	P=0.466	P=0.504N	P=0.524N
RAO-SCOTT	P=0.211N	P=0.539	P=0.494	P=0.547N	P=0.541N
LITTER C-A/FISHERS	P=0.157N	P=0.500	P=0.500	P=0.500N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pancreas: Acinus Hyperplasia					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Parathyroid Gland Hyperplasia					
LESION RATES					
OVERALL (a)	0/45 (0%)	1/45 (2%)	0/37 (0%)	1/47 (2%)	0/43 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/22 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/37.52	1/38.70	0/28.95	1/39.11	0/34.23
POLY-3 PERCENT (g)	0%	2.6%	0%	2.6%	0%
TERMINAL (d)	0/26 (0%)	1/34 (3%)	0/22 (0%)	0/30 (0%)	0/27 (0%)
FIRST INCIDENCE	---	730 (T)	---	543	---
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis Hyperplasia					
LESION RATES					
OVERALL (a)	24/50 (48%)	15/50 (30%)	14/50 (28%)	15/50 (30%)	18/50 (36%)
LITTERS (b)	19/25 (76%)	11/25 (44%)	12/25 (48%)	11/25 (44%)	13/25 (52%)
POLY-3 RATE (c)	24/44.36	15/43.59	14/39.53	15/41.77	18/41.82
POLY-3 PERCENT (g)	54.1%	34.4%	35.4%	35.9%	43%
TERMINAL (d)	17/29 (59%)	13/37 (35%)	11/27 (41%)	13/32 (41%)	12/29 (41%)
FIRST INCIDENCE	354	564	543	676	333
STATISTICAL TESTS					
POLY 3	P=0.549N	P=0.046N*	P=0.061N	P=0.064N	P=0.203N
POLY 1.5	P=0.526N	P=0.047N*	P=0.047N*	P=0.056N	P=0.178N
POLY 6	P=0.529	P=0.041N*	P=0.078N	P=0.073N	P=0.230N
RAO-SCOTT	P=0.539	P=0.063N	P=0.080N	P=0.083N	P=0.224N
LITTER C-A/FISHERS	P=0.369N	P=0.021N*	P=0.040N*	P=0.021N*	P=0.070N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Distalis Hypertrophy					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/41.35	0/42.84	0/38.10	1/41.49	1/38.14
POLY-3 PERCENT (g)	2.4%	0%	0%	2.4%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	1/32 (3%)	1/29 (3%)
FIRST INCIDENCE	680	---	---	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Pars Intermedia Hyperplasia					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Pituitary Gland: Rathke's Cleft Cyst					
LESION 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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin					
Cyst Epithelial Inclusion					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	1/42.84	0/38.10	0/40.53	0/38.14
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	0/27 (0%)	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin Ulcer					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	1/42.84	0/38.10	0/40.53	0/38.14
POLY-3 PERCENT (g)	0%	2.3%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	0/27 (0%)	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Skin: Epidermis Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/49 (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	0/40.53	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen					
Extramedullary Hematopoiesis					
LESION RATES					
OVERALL (a)	45/50 (90%)	41/50 (82%)	30/50 (60%)	44/50 (88%)	40/50 (80%)
LITTERS (b)	25/25 (100%)	23/25 (92%)	20/25 (80%)	25/25 (100%)	24/25 (96%)
POLY-3 RATE (c)	45/49.75	41/48.25	30/45.11	44/49.15	40/46.55
POLY-3 PERCENT (g)	90.5%	85%	66.5%	89.5%	85.9%
TERMINAL (d)	26/29 (90%)	31/37 (84%)	17/27 (63%)	27/32 (84%)	26/29 (90%)
FIRST INCIDENCE	302	400	309	326	329
STATISTICAL TESTS					
POLY 3	P=0.374	P=0.299N	P=0.003N**	P=0.572N	P=0.346N
POLY 1.5	P=0.455	P=0.269N	P<0.001N**	P=0.557N	P=0.237N
POLY 6	P=0.272	P=0.313N	P=0.005N**	P=0.565N	P=0.502N
RAO-SCOTT	P=0.376	P=0.333N	P=0.009N**	P=0.587N	P=0.381N
LITTER C-A/FISHERS	P=0.355	P=0.245N	P=0.025N*	P=1.000	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen					
Hyperplasia Lymphoid					
LESION RATES					
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	2/25 (8%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	1/42.08	1/42.84	2/38.87	2/42.99	2/38.14
POLY-3 PERCENT (g)	2.4%	2.3%	5.2%	4.7%	5.2%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	1/27 (4%)	0/32 (0%)	2/29 (7%)
FIRST INCIDENCE	302	730 (T)	448	326	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.380	P=0.757N	P=0.472	P=0.507	P=0.466
POLY 1.5	P=0.399	P=0.759N	P=0.481	P=0.504	P=0.479
POLY 6	P=0.361	P=0.751N	P=0.466	P=0.514	P=0.455
RAO-SCOTT	P=0.380	P=0.739N	P=0.459	P=0.503	P=0.451
LITTER C-A/FISHERS	P=0.425	P=0.755	P=0.500	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen Pigment					
LESION RATES					
OVERALL (a)	37/50 (74%)	46/50 (92%)	36/50 (72%)	37/50 (74%)	46/50 (92%)
LITTERS (b)	22/25 (88%)	25/25 (100%)	23/25 (92%)	22/25 (88%)	25/25 (100%)
POLY-3 RATE (c)	37/46.32	46/49.31	36/44.52	37/44.93	46/48.81
POLY-3 PERCENT (g)	79.9%	93.3%	80.9%	82.4%	94.2%
TERMINAL (d)	26/29 (90%)	34/37 (92%)	23/27 (85%)	29/32 (91%)	27/29 (93%)
FIRST INCIDENCE	302	281	290	388	329
STATISTICAL TESTS					
POLY 3	P=0.062	P=0.038*	P=0.563	P=0.485	P=0.024*
POLY 1.5	P=0.046*	P=0.024*	P=0.592	P=0.514	P=0.017*
POLY 6	P=0.098	P=0.080	P=0.578	P=0.492	P=0.050*
RAO-SCOTT	P=0.103	P=0.073	P=0.562	P=0.496	P=0.055
LITTER C-A/FISHERS	P=0.205	P=0.117	P=0.500	P=0.666	P=0.117

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen: Lymphoid Follicle Atrophy					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	5/50 (10%)	1/50 (2%)	3/50 (6%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	4/25 (16%)	1/25 (4%)	3/25 (12%)
POLY-3 RATE (c)	0/41.15	1/43.79	5/40.21	1/42.34	3/40.14
POLY-3 PERCENT (g)	0%	2.3%	12.4%	2.4%	7.5%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	281	290	388	420
STATISTICAL TESTS					
POLY 3	P=0.267	P=0.512	P=0.028*	P=0.506	P=0.114
POLY 1.5	P=0.278	P=0.508	P=0.029*	P=0.504	P=0.116
POLY 6	P=0.257	P=0.519	P=0.028*	P=0.509	P=0.112
RAO-SCOTT	P=0.341	P=0.617	P=0.083	P=0.605	P=0.206
LITTER C-A/FISHERS	P=0.227	P=0.500	P=0.055	P=0.500	P=0.117

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	1/41.80	0/38.14
POLY-3 PERCENT (g)	0%	0%	0%	2.4%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	646	---
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach Ulcer					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.15	1/42.84	1/38.69	0/41.49	2/38.14
POLY-3 PERCENT (g)	0%	2.3%	2.6%	0%	5.2%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	0/27 (0%)	0/32 (0%)	2/29 (7%)
FIRST INCIDENCE	---	730 (T)	543	---	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.180	P=0.508	P=0.488	(e)	P=0.220
POLY 1.5	P=0.186	P=0.505	P=0.492	(e)	P=0.227
POLY 6	P=0.174	P=0.514	P=0.485	(e)	P=0.214
RAO-SCOTT	P=0.227	P=0.573	P=0.536	(e)	P=0.285
LITTER C-A/FISHERS	P=0.192	P=0.500	P=0.500	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach: Epithelium Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/41.15	0/42.84	0/38.10	0/41.49	2/38.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	5.1%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	---	438
STATISTICAL TESTS					
POLY 3	P=0.018*	(e)	(e)	(e)	P=0.224
POLY 1.5	P=0.018*	(e)	(e)	(e)	P=0.230
POLY 6	P=0.017*	(e)	(e)	(e)	P=0.220
RAO-SCOTT	P=0.084	(e)	(e)	(e)	P=0.370
LITTER C-A/FISHERS	P=0.019*	(e)	(e)	(e)	P=0.245

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Forestomach: Epithelium Hyperplasia Focal					
LESION RATES					
OVERALL (a)	0/50 (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)	0/41.15	0/42.84	1/38.57	0/41.49	2/38.14
POLY-3 PERCENT (g)	0%	0%	2.6%	0%	5.2%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	2/29 (7%)
FIRST INCIDENCE	---	---	591	---	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.072	(e)	P=0.487	(e)	P=0.220
POLY 1.5	P=0.076	(e)	P=0.491	(e)	P=0.227
POLY 6	P=0.068	(e)	P=0.484	(e)	P=0.214
RAO-SCOTT	P=0.149	(e)	P=0.586	(e)	P=0.332
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Glandular Erosion					
LESION RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	2/43.78	0/38.10	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	4.6%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	590	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.362N	P=0.251	(e)	(e)	(e)
POLY 1.5	P=0.368N	P=0.245	(e)	(e)	(e)
POLY 6	P=0.352N	P=0.262	(e)	(e)	(e)
RAO-SCOTT	P=0.480N	P=0.395	(e)	(e)	(e)
LITTER C-A/FISHERS	P=0.378N	P=0.245	(e)	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Stomach, Glandular Mineral					
LESION RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/41.15	1/42.84	1/38.10	0/41.49	1/38.14
POLY-3 PERCENT (g)	0%	2.3%	2.6%	0%	2.6%
TERMINAL (d)	0/29 (0%)	1/37 (3%)	1/27 (4%)	0/32 (0%)	1/29 (3%)
FIRST INCIDENCE	---	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thymus Atrophy					
LESION RATES					
OVERALL (a)	0/49 (0%)	0/48 (0%)	0/50 (0%)	1/48 (2%)	0/48 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/41.05	0/41.89	0/38.10	1/40.75	0/37.13
POLY-3 PERCENT (g)	0%	0%	0%	2.5%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	646	---
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: C-Cell Hyperplasia					
LESION RATES					
OVERALL (a)	4/50 (8%)	8/50 (16%)	6/49 (12%)	3/50 (6%)	5/50 (10%)
LITTERS (b)	4/25 (16%)	7/25 (28%)	6/25 (24%)	3/25 (12%)	4/25 (16%)
POLY-3 RATE (c)	4/41.42	8/43.26	6/37.90	3/41.49	5/38.14
POLY-3 PERCENT (g)	9.7%	18.5%	15.8%	7.2%	13.1%
TERMINAL (d)	3/29 (10%)	7/37 (19%)	5/27 (19%)	3/32 (9%)	5/29 (17%)
FIRST INCIDENCE	659	610	660	730 (T)	730 (T)
STATISTICAL TESTS					
POLY 3	P=0.472N	P=0.196	P=0.313	P=0.499N	P=0.448
POLY 1.5	P=0.448N	P=0.188	P=0.328	P=0.499N	P=0.470
POLY 6	P=0.498N	P=0.213	P=0.302	P=0.497N	P=0.427
RAO-SCOTT	P=0.477N	P=0.214	P=0.318	P=0.495N	P=0.442
LITTER C-A/FISHERS	P=0.312N	P=0.248	P=0.363	P=0.500N	P=0.649

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Thyroid Gland: Follicular Cell Hyperplasia					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/41.15	0/42.84	2/39.07	0/41.49	0/38.14
POLY-3 PERCENT (g)	0%	0%	5.1%	0%	0%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	393	---	---
STATISTICAL TESTS					
POLY 3	P=0.504N	(e)	P=0.225	(e)	(e)
POLY 1.5	P=0.496N	(e)	P=0.227	(e)	(e)
POLY 6	P=0.512N	(e)	P=0.225	(e)	(e)
RAO-SCOTT	P=0.576N	(e)	P=0.379	(e)	(e)
LITTER C-A/FISHERS	P=0.483N	(e)	P=0.245	(e)	(e)

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Trachea: Submucosa Inflammation Chronic					
LESION RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (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	0/38.10	0/41.49	2/38.55
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)	---	---	---	615
STATISTICAL TESTS					
POLY 3	P=0.102	P=0.492N	P=0.515N	P=0.498N	P=0.477
POLY 1.5	P=0.104	P=0.495N	P=0.510N	P=0.499N	P=0.486
POLY 6	P=0.099	P=0.486N	P=0.520N	P=0.496N	P=0.470
RAO-SCOTT	P=0.182	P=0.608N	P=0.601N	P=0.606N	P=0.536
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Urinary Bladder: Urothelium Inflammation Chronic					
LESION RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (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	0/41.84	0/38.10	0/40.53	0/37.71
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/36 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Uterus Dilation					
LESION RATES					
OVERALL (a)	2/50 (4%)	6/50 (12%)	1/50 (2%)	3/49 (6%)	3/50 (6%)
LITTERS (b)	2/25 (8%)	5/25 (20%)	1/25 (4%)	3/25 (12%)	3/25 (12%)
POLY-3 RATE (c)	2/41.61	6/43.67	1/38.10	3/40.83	3/39.09
POLY-3 PERCENT (g)	4.8%	13.7%	2.6%	7.4%	7.7%
TERMINAL (d)	1/29 (3%)	5/37 (14%)	1/27 (4%)	2/32 (6%)	1/29 (3%)
FIRST INCIDENCE	594	403	730 (T)	646	557
STATISTICAL TESTS					
POLY 3	P=0.583N	P=0.148	P=0.531N	P=0.491	P=0.471
POLY 1.5	P=0.576N	P=0.142	P=0.519N	P=0.491	P=0.483
POLY 6	P=0.588N	P=0.157	P=0.541N	P=0.495	P=0.463
RAO-SCOTT	P=0.585	P=0.183	P=0.528N	P=0.501	P=0.477
LITTER C-A/FISHERS	P=0.562	P=0.209	P=0.500N	P=0.500	P=0.500

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Uterus Hemorrhage					
LESION RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/49 (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)	2/42.09	0/42.84	0/38.10	0/40.53	1/38.70
POLY-3 PERCENT (g)	4.8%	0%	0%	0%	2.6%
TERMINAL (d)	0/29 (0%)	0/37 (0%)	0/27 (0%)	0/32 (0%)	0/29 (0%)
FIRST INCIDENCE	588	---	---	---	557
STATISTICAL TESTS					
POLY 3	P=0.619	P=0.233N	P=0.260N	P=0.245N	P=0.529N
POLY 1.5	P=0.623	P=0.235N	P=0.251N	P=0.244N	P=0.517N
POLY 6	P=0.613	P=0.229N	P=0.268N	P=0.246N	P=0.541N
RAO-SCOTT	P=0.625	P=0.346N	P=0.354N	P=0.353N	P=0.572N
LITTER C-A/FISHERS	P=0.628	P=0.245N	P=0.245N	P=0.245N	P=0.500N

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Uterus: Endometrium Hyperplasia Cystic					
LESION RATES					
OVERALL (a)	26/50 (52%)	29/50 (58%)	20/50 (40%)	21/49 (43%)	30/50 (60%)
LITTERS (b)	19/25 (76%)	20/25 (80%)	16/25 (64%)	17/25 (68%)	19/25 (76%)
POLY-3 RATE (c)	26/44.04	29/45.43	20/40.93	21/42.78	30/42.00
POLY-3 PERCENT (g)	59%	63.8%	48.9%	49.1%	71.4%
TERMINAL (d)	20/29 (69%)	23/37 (62%)	15/27 (56%)	16/32 (50%)	23/29 (79%)
FIRST INCIDENCE	302	400	309	361	438
STATISTICAL TESTS					
POLY 3	P=0.093	P=0.399	P=0.227N	P=0.231N	P=0.149
POLY 1.5	P=0.118	P=0.362	P=0.201N	P=0.238N	P=0.188
POLY 6	P=0.073	P=0.480	P=0.248N	P=0.209N	P=0.127
RAO-SCOTT	P=0.097	P=0.400	P=0.234N	P=0.239N	P=0.165
LITTER C-A/FISHERS	P=0.516	P=0.500	P=0.269N	P=0.377N	P=0.629

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/27/2019

Time Report Requested: 16:43:37

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

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females				
	0 ppm	300 ppm	1000 ppm	3000 ppm	10000 ppm
Uterus: Endometrium Metaplasia					
LESION RATES					
OVERALL (a)	22/50 (44%)	22/50 (44%)	19/50 (38%)	22/49 (45%)	25/50 (50%)
LITTERS (b)	16/25 (64%)	19/25 (76%)	16/25 (64%)	16/25 (64%)	18/25 (72%)
POLY-3 RATE (c)	22/44.56	22/44.61	19/39.96	22/42.90	25/41.43
POLY-3 PERCENT (g)	49.4%	49.3%	47.6%	51.3%	60.3%
TERMINAL (d)	14/29 (48%)	19/37 (51%)	15/27 (56%)	15/32 (47%)	19/29 (66%)
FIRST INCIDENCE	302	400	309	533	466
STATISTICAL TESTS					
POLY 3	P=0.124	P=0.583N	P=0.521N	P=0.514	P=0.203
POLY 1.5	P=0.154	P=0.578	P=0.451N	P=0.517	P=0.251
POLY 6	P=0.101	P=0.562N	P=0.589	P=0.536	P=0.167
RAO-SCOTT	P=0.134	P=0.576N	P=0.512N	P=0.510	P=0.217
LITTER C-A/FISHERS	P=0.437	P=0.269	P=0.616	P=0.616	P=0.381

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 ***