

Experiment Number: 10188 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Di(2-ethylhexyl) Phthalate
CAS Number: 117-81-7

Date Report Requested: 02/10/2020
Time Report Requested: 16:27:29
First Dose M/F: 06/27/11 / 06/28/11
Lab: BAT

Custom Report with Litter-Based Statistics

NTP Study Number: C10188
Lock Date: 07/15/2015
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.5.0.0_sfh
PWG Approval Date: NONE

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

Adrenal Cortex
Adrenal Medulla
Brain
Heart
Islets, Pancreatic
Kidney
Liver
Ovary
Pancreas
Pituitary Gland
Salivary Glands
Testis
Thyroid Gland

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF DI(2-ETHYLHEXYL) PHTHALATE

MALE RATS

Organ

Adrenal Medulla

Liver

Pancreas

Skin

Thyroid Gland: C-Cell

Thyroid Gland: Follicular Cell

All Organs

Morphology

Pheochromocytoma Benign

Pheochromocytoma Malignant

Pheochromocytoma: Benign, Complex, Malignant, NOS

Hepatocellular Adenoma

Hepatocellular Carcinoma

Hepatocellular Carcinoma or Hepatocellular Adenoma

Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

Adenoma

Carcinoma or Adenoma

Fibroma

Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma

Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma

Adenoma

Carcinoma or Adenoma

Adenoma

Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

Malignant Schwannoma

Benign Tumors

Malignant Tumors

Malignant and Benign Tumors

FEMALE RATS

Organ

Liver

Mammary Gland

Pituitary Gland: Pars Distalis or Unspecified Site

Morphology

Hepatocellular Adenoma

Hepatocellular Carcinoma

Hepatocellular Carcinoma or Hepatocellular Adenoma

Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

Fibroadenoma

Fibroma, Fibroadenoma or Adenoma

Fibroma, Fibroadenoma, Carcinoma, or Adenoma

Adenoma

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF DI(2-ETHYLHEXYL) PHTHALATE

Thyroid Gland: Follicular Cell

Uterus (excluding Uterus, Cervix)

Uterus (including Uterus, Cervix)

All Organs

Carcinoma or Adenoma

Adenoma

Adenocarcinoma

Adenocarcinoma or Adenoma

Adenocarcinoma, Adenoma, Sq Cell Carcinoma, or Sq Cell Papilloma

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

Polyp Stromal (includes multiple)

Adenocarcinoma

Adenocarcinoma or Adenoma

Adenocarcinoma, Adenoma, Sq Cell Carcinoma, Sq Cell Papilloma

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

Polyp Stromal (includes multiple)

Benign Tumors

Malignant Tumors

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex					
Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	2/50 (4%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)
POLY-3 RATE (c)	0/38.35	0/42.09	0/47.18	2/44.87	0/34.50
POLY-3 PERCENT (g)	0%	0%	0%	4.5%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	0/40 (0%)	1/35 (3%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	674	---
STATISTICAL TESTS					
POLY 3	P=0.637	(e)	(e)	P=0.274	(e)
POLY 1.5	P=0.635	(e)	(e)	P=0.259	(e)
POLY 6	P=0.654	(e)	(e)	P=0.291	(e)
RAO-SCOTT	P=0.699	(e)	(e)	P=0.407	(e)
LITTER C-A/FISHERS	P=0.731	(e)	(e)	P=0.245	(e)

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Medulla					
Pheochromocytoma Benign					
TUMOR RATES					
OVERALL (a)	5/50 (10%)	4/49 (8%)	5/50 (10%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	5/25 (20%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	5/38.35	4/42.44	5/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	13%	9.4%	10.6%	0%	0%
TERMINAL (d)	5/25 (20%)	3/33 (9%)	5/40 (13%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	631	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.017N*	P=0.436N	P=0.496N	P=0.019N*	P=0.039N*
POLY 1.5	P=0.018N*	P=0.467N	P=0.547N	P=0.023N*	P=0.045N*
POLY 6	P=0.016N*	P=0.398N	P=0.438N	P=0.016N*	P=0.031N*
RAO-SCOTT	P=0.057N	P=0.494N	P=0.543N	P=0.082N	P=0.110N
LITTER C-A/FISHERS	P=0.031N*	P=0.666	P=0.351	P=0.117N	P=0.117N

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Medulla					
Pheochromocytoma Malignant					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	1/49 (2%)	1/50 (2%)	0/50 (0%)	3/49 (6%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	0/38.35	1/42.09	1/47.57	0/44.66	3/35.43
POLY-3 PERCENT (g)	0%	2.4%	2.1%	0%	8.5%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	0/40 (0%)	0/35 (0%)	2/29 (7%)
FIRST INCIDENCE	---	729 (T)	617	---	295
STATISTICAL TESTS					
POLY 3	P=0.040*	P=0.519	P=0.542	(e)	P=0.104
POLY 1.5	P=0.039*	P=0.510	P=0.527	(e)	P=0.097
POLY 6	P=0.043*	P=0.529	P=0.560	(e)	P=0.118
RAO-SCOTT	P=0.106	P=0.667	P=0.699	(e)	P=0.235
LITTER C-A/FISHERS	P=0.192	P=0.500	P=0.500	(e)	P=0.245

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Medulla					
Pheochromocytoma: Benign, Complex, Malignant, NOS					
TUMOR RATES					
OVERALL (a)	6/50 (12%)	5/49 (10%)	6/50 (12%)	0/50 (0%)	4/49 (8%)
LITTERS (b)	4/25 (16%)	4/25 (16%)	6/25 (24%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	6/38.80	5/42.44	6/47.57	0/44.66	4/35.55
POLY-3 PERCENT (g)	15.5%	11.8%	12.6%	0%	11.3%
TERMINAL (d)	5/25 (20%)	4/33 (12%)	5/40 (13%)	0/35 (0%)	2/29 (7%)
FIRST INCIDENCE	598	631	617	---	295
STATISTICAL TESTS					
POLY 3	P=0.357N	P=0.437N	P=0.473N	P=0.009N**	P=0.424N
POLY 1.5	P=0.360N	P=0.467N	P=0.528N	P=0.011N*	P=0.455N
POLY 6	P=0.347N	P=0.400N	P=0.411N	P=0.007N**	P=0.371N
RAO-SCOTT	P=0.418N	P=0.475N	P=0.508N	P=0.039N*	P=0.455N
LITTER C-A/FISHERS	P=0.289N	P=0.649	P=0.363	P=0.055N	P=0.500N

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Brain					
Glioma Malignant					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/49 (4%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.35	2/42.42	1/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	4.7%	2.1%	0%	0%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	638	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.294N	P=0.260	P=0.541	(e)	(e)
POLY 1.5	P=0.302N	P=0.249	P=0.526	(e)	(e)
POLY 6	P=0.284N	P=0.275	P=0.558	(e)	(e)
RAO-SCOTT	P=0.363N	P=0.347	P=0.619	(e)	(e)
LITTER C-A/FISHERS	P=0.292N	P=0.245	P=0.500	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Brain					
Oligodendroglioma, Glioma, or Astrocytoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/49 (4%)	2/50 (4%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.35	2/42.42	2/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	4.7%	4.2%	0%	0%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	2/40 (5%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	638	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.238N	P=0.260	P=0.286	(e)	(e)
POLY 1.5	P=0.247N	P=0.249	P=0.267	(e)	(e)
POLY 6	P=0.225N	P=0.275	P=0.309	(e)	(e)
RAO-SCOTT	P=0.308N	P=0.343	P=0.375	(e)	(e)
LITTER C-A/FISHERS	P=0.233N	P=0.245	P=0.245	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Heart					
Schwannoma Malignant					
TUMOR RATES					
OVERALL (a)	2/50 (4%)	0/49 (0%)	2/50 (4%)	1/50 (2%)	0/49 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	2/25 (8%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/38.35	0/42.09	2/47.32	1/44.66	0/34.50
POLY-3 PERCENT (g)	5.2%	0%	4.2%	2.2%	0%
TERMINAL (d)	2/25 (8%)	0/33 (0%)	1/40 (3%)	1/35 (3%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	---	694	729 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.288N	P=0.217N	P=0.616N	P=0.447N	P=0.261N
POLY 1.5	P=0.288N	P=0.226N	P=0.646N	P=0.467N	P=0.272N
POLY 6	P=0.283N	P=0.205N	P=0.580N	P=0.424N	P=0.241N
RAO-SCOTT	P=0.296N	P=0.268N	P=0.624N	P=0.476N	P=0.288N
LITTER C-A/FISHERS	P=0.238N	P=0.245N	P=0.695	P=0.500N	P=0.245N

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Intestine Small: Jejunum Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	1/49 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	2/38.48	1/42.09	0/47.18	1/44.66	2/34.81
POLY-3 PERCENT (g)	5.2%	2.4%	0%	2.2%	5.8%
TERMINAL (d)	1/25 (4%)	1/33 (3%)	0/40 (0%)	1/35 (3%)	1/29 (3%)
FIRST INCIDENCE	696	729 (T)	---	729 (T)	645
STATISTICAL TESTS					
POLY 3	P=0.309	P=0.469N	P=0.195N	P=0.448N	P=0.658
POLY 1.5	P=0.313	P=0.484N	P=0.210N	P=0.468N	P=0.640
POLY 6	P=0.311	P=0.451N	P=0.180N	P=0.427N	P=0.690
RAO-SCOTT	P=0.327	P=0.492N	P=0.255N	P=0.478N	P=0.636
LITTER C-A/FISHERS	P=0.383	P=0.500N	P=0.245N	P=0.500N	P=0.695

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Intestine Small: Site Unspecified Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	1/49 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	2/38.48	1/42.09	0/47.18	1/44.66	2/34.81
POLY-3 PERCENT (g)	5.2%	2.4%	0%	2.2%	5.8%
TERMINAL (d)	1/25 (4%)	1/33 (3%)	0/40 (0%)	1/35 (3%)	1/29 (3%)
FIRST INCIDENCE	696	729 (T)	---	729 (T)	645
STATISTICAL TESTS					
POLY 3	P=0.309	P=0.469N	P=0.195N	P=0.448N	P=0.658
POLY 1.5	P=0.313	P=0.484N	P=0.210N	P=0.468N	P=0.640
POLY 6	P=0.311	P=0.451N	P=0.180N	P=0.427N	P=0.690
RAO-SCOTT	P=0.327	P=0.492N	P=0.255N	P=0.478N	P=0.636
LITTER C-A/FISHERS	P=0.383	P=0.500N	P=0.245N	P=0.500N	P=0.695

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Islets, Pancreatic Adenoma					
TUMOR RATES					
OVERALL (a)	2/50 (4%)	2/49 (4%)	7/50 (14%)	4/50 (8%)	2/49 (4%)
LITTERS (b)	2/25 (8%)	2/25 (8%)	7/25 (28%)	4/25 (16%)	2/25 (8%)
POLY-3 RATE (c)	2/38.35	2/42.24	7/47.38	4/44.74	2/34.50
POLY-3 PERCENT (g)	5.2%	4.7%	14.8%	8.9%	5.8%
TERMINAL (d)	2/25 (8%)	1/33 (3%)	6/40 (15%)	3/35 (9%)	2/29 (7%)
FIRST INCIDENCE	729 (T)	690	675	708	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.455N	P=0.659N	P=0.141	P=0.410	P=0.656
POLY 1.5	P=0.468N	P=0.676N	P=0.115	P=0.382	P=0.639
POLY 6	P=0.424N	P=0.637N	P=0.177	P=0.444	P=0.687
RAO-SCOTT	P=0.446N	P=0.635N	P=0.147	P=0.400	P=0.616
LITTER C-A/FISHERS	P=0.349N	P=0.695	P=0.069	P=0.334	P=0.695

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Kidney: Renal Tubule Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	2/49 (4%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	1/38.44	0/42.09	0/47.18	1/44.66	2/35.22
POLY-3 PERCENT (g)	2.6%	0%	0%	2.2%	5.7%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	0/40 (0%)	1/35 (3%)	1/29 (3%)
FIRST INCIDENCE	708	---	---	729 (T)	478
STATISTICAL TESTS					
POLY 3	P=0.100	P=0.482N	P=0.459N	P=0.726N	P=0.469
POLY 1.5	P=0.101	P=0.490N	P=0.474N	P=0.740N	P=0.452
POLY 6	P=0.102	P=0.472N	P=0.443N	P=0.711N	P=0.500
RAO-SCOTT	P=0.144	P=0.544N	P=0.540N	P=0.733N	P=0.490
LITTER C-A/FISHERS	P=0.135	P=0.500N	P=0.500N	P=0.755	P=0.500

Experiment Number: 10188 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 02/10/2020
 Time Report Requested: 16:27:29
 First Dose M/F: 06/27/11 / 06/28/11
 Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	3/50 (6%)	8/49 (16%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	0/25 (0%)	3/25 (12%)	7/25 (28%)
POLY-3 RATE (c)	0/38.35	1/42.09	0/47.18	3/44.66	8/35.95
POLY-3 PERCENT (g)	0%	2.4%	0%	6.7%	22.3%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	0/40 (0%)	3/35 (9%)	5/29 (17%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)	295
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.519	(e)	P=0.148	P=0.002**
POLY 1.5	P<0.001**	P=0.510	(e)	P=0.136	P=0.002**
POLY 6	P<0.001**	P=0.529	(e)	P=0.163	P=0.004**
RAO-SCOTT	P<0.001**	P=0.604	(e)	P=0.246	P=0.018*
LITTER C-A/FISHERS	P<0.001**	P=0.500	(e)	P=0.117	P=0.005**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Hepatocellular Carcinoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	3/49 (6%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	3/25 (12%)
POLY-3 RATE (c)	1/38.62	0/42.09	0/47.18	0/44.66	3/34.50
POLY-3 PERCENT (g)	2.6%	0%	0%	0%	8.7%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	0/40 (0%)	0/35 (0%)	3/29 (10%)
FIRST INCIDENCE	657	---	---	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.013*	P=0.483N	P=0.460N	P=0.471N	P=0.265
POLY 1.5	P=0.014*	P=0.491N	P=0.475N	P=0.482N	P=0.252
POLY 6	P=0.013*	P=0.473N	P=0.444N	P=0.459N	P=0.290
RAO-SCOTT	P=0.038*	P=0.589N	P=0.587N	P=0.587N	P=0.341
LITTER C-A/FISHERS	P=0.020*	P=0.500N	P=0.500N	P=0.500N	P=0.305

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Hepatocellular Carcinoma or Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/50 (0%)	3/50 (6%)	11/49 (22%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	3/25 (12%)	9/25 (36%)
POLY-3 RATE (c)	1/38.62	1/42.09	0/47.18	3/44.66	11/35.95
POLY-3 PERCENT (g)	2.6%	2.4%	0%	6.7%	30.6%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	0/40 (0%)	3/35 (9%)	8/29 (28%)
FIRST INCIDENCE	657	729 (T)	---	729 (T)	295
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.741N	P=0.460N	P=0.359	P<0.001**
POLY 1.5	P<0.001**	P=0.751N	P=0.475N	P=0.338	P<0.001**
POLY 6	P<0.001**	P=0.730N	P=0.444N	P=0.382	P=0.002**
RAO-SCOTT	P<0.001**	P=0.750N	P=0.565N	P=0.429	P=0.009**
LITTER C-A/FISHERS	P<0.001**	P=0.755	P=0.500N	P=0.305	P=0.005**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/50 (0%)	3/50 (6%)	11/49 (22%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	3/25 (12%)	9/25 (36%)
POLY-3 RATE (c)	1/38.62	1/42.09	0/47.18	3/44.66	11/35.95
POLY-3 PERCENT (g)	2.6%	2.4%	0%	6.7%	30.6%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	0/40 (0%)	3/35 (9%)	8/29 (28%)
FIRST INCIDENCE	657	729 (T)	---	729 (T)	295
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.741N	P=0.460N	P=0.359	P<0.001**
POLY 1.5	P<0.001**	P=0.751N	P=0.475N	P=0.338	P<0.001**
POLY 6	P<0.001**	P=0.730N	P=0.444N	P=0.382	P=0.002**
RAO-SCOTT	P<0.001**	P=0.750N	P=0.565N	P=0.429	P=0.009**
LITTER C-A/FISHERS	P<0.001**	P=0.755	P=0.500N	P=0.305	P=0.005**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (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)	0/38.35	0/42.09	0/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	0/40 (0%)	0/35 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/49 (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)	1/39.26	1/42.09	0/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	2.6%	2.4%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	0/40 (0%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	328	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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Carcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/49 (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)	1/39.26	1/42.09	0/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	2.6%	2.4%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	0/40 (0%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	328	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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Fibroadenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	1/49 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	2/38.97	1/42.09	2/47.18	1/44.66	1/34.71
POLY-3 PERCENT (g)	5.1%	2.4%	4.2%	2.2%	2.9%
TERMINAL (d)	1/25 (4%)	1/33 (3%)	2/40 (5%)	1/35 (3%)	0/29 (0%)
FIRST INCIDENCE	530	729 (T)	729 (T)	729 (T)	673
STATISTICAL TESTS					
POLY 3	P=0.507N	P=0.473N	P=0.623N	P=0.453N	P=0.540N
POLY 1.5	P=0.509N	P=0.486N	P=0.650N	P=0.471N	P=0.554N
POLY 6	P=0.499N	P=0.457N	P=0.592N	P=0.433N	P=0.513N
RAO-SCOTT	P=0.490N	P=0.459N	P=0.610N	P=0.442N	P=0.501N
LITTER C-A/FISHERS	P=0.449N	P=0.500N	P=0.695	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland					
Fibroma, Fibroadenoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	1/49 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	2/38.97	1/42.09	2/47.18	1/44.66	1/34.71
POLY-3 PERCENT (g)	5.1%	2.4%	4.2%	2.2%	2.9%
TERMINAL (d)	1/25 (4%)	1/33 (3%)	2/40 (5%)	1/35 (3%)	0/29 (0%)
FIRST INCIDENCE	530	729 (T)	729 (T)	729 (T)	673
STATISTICAL TESTS					
POLY 3	P=0.507N	P=0.473N	P=0.623N	P=0.453N	P=0.540N
POLY 1.5	P=0.509N	P=0.486N	P=0.650N	P=0.471N	P=0.554N
POLY 6	P=0.499N	P=0.457N	P=0.592N	P=0.433N	P=0.513N
RAO-SCOTT	P=0.490N	P=0.459N	P=0.610N	P=0.442N	P=0.501N
LITTER C-A/FISHERS	P=0.449N	P=0.500N	P=0.695	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland					
Fibroma, Fibroadenoma, Carcinoma, or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	2/49 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	2/25 (8%)	2/25 (8%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	3/39.88	2/42.09	2/47.18	1/44.66	1/34.71
POLY-3 PERCENT (g)	7.5%	4.8%	4.2%	2.2%	2.9%
TERMINAL (d)	1/25 (4%)	2/33 (6%)	2/40 (5%)	1/35 (3%)	0/29 (0%)
FIRST INCIDENCE	328	729 (T)	729 (T)	729 (T)	673
STATISTICAL TESTS					
POLY 3	P=0.331N	P=0.475N	P=0.424N	P=0.266N	P=0.356N
POLY 1.5	P=0.331N	P=0.489N	P=0.453N	P=0.281N	P=0.369N
POLY 6	P=0.326N	P=0.457N	P=0.391N	P=0.248N	P=0.328N
RAO-SCOTT	P=0.322N	P=0.467N	P=0.424N	P=0.271N	P=0.335N
LITTER C-A/FISHERS	P=0.268N	P=0.500N	P=0.500N	P=0.305N	P=0.305N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas Adenoma					
TUMOR RATES					
OVERALL (a)	10/50 (20%)	7/49 (14%)	8/50 (16%)	36/50 (72%)	22/49 (45%)
LITTERS (b)	8/25 (32%)	5/25 (20%)	8/25 (32%)	24/25 (96%)	18/25 (72%)
POLY-3 RATE (c)	10/38.44	7/42.09	8/47.30	36/46.22	22/35.22
POLY-3 PERCENT (g)	26%	16.6%	16.9%	77.9%	62.5%
TERMINAL (d)	9/25 (36%)	7/33 (21%)	7/40 (18%)	31/35 (89%)	20/29 (69%)
FIRST INCIDENCE	708	729 (T)	698	534	478
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.223N	P=0.224N	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.257N	P=0.285N	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.185N	P=0.165N	P<0.001**	P=0.002**
RAO-SCOTT	P<0.001**	P=0.209N	P=0.210N	P<0.001**	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.260N	P=0.619	P<0.001**	P=0.005**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas Carcinoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	3/50 (6%)	1/49 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	3/25 (12%)	1/25 (4%)
POLY-3 RATE (c)	0/38.35	0/42.09	0/47.18	3/45.44	1/34.50
POLY-3 PERCENT (g)	0%	0%	0%	6.6%	2.9%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	0/40 (0%)	0/35 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	---	632	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.196	(e)	(e)	P=0.152	P=0.479
POLY 1.5	P=0.196	(e)	(e)	P=0.138	P=0.470
POLY 6	P=0.209	(e)	(e)	P=0.170	P=0.495
RAO-SCOTT	P=0.290	(e)	(e)	P=0.250	P=0.534
LITTER C-A/FISHERS	P=0.290	(e)	(e)	P=0.117	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	10/50 (20%)	7/49 (14%)	8/50 (16%)	38/50 (76%)	22/49 (45%)
LITTERS (b)	8/25 (32%)	5/25 (20%)	8/25 (32%)	25/25 (100%)	18/25 (72%)
POLY-3 RATE (c)	10/38.44	7/42.09	8/47.30	38/46.79	22/35.22
POLY-3 PERCENT (g)	26%	16.6%	16.9%	81.2%	62.5%
TERMINAL (d)	9/25 (36%)	7/33 (21%)	7/40 (18%)	31/35 (89%)	20/29 (69%)
FIRST INCIDENCE	708	729 (T)	698	534	478
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.223N	P=0.224N	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.257N	P=0.285N	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.185N	P=0.165N	P<0.001**	P=0.002**
RAO-SCOTT	P<0.001**	P=0.209N	P=0.210N	P<0.001**	P<0.001**
LITTER C-A/FISHERS	P<0.001**	P=0.260N	P=0.619	P<0.001**	P=0.005**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma					
TUMOR RATES					
OVERALL (a)	4/50 (8%)	6/49 (12%)	7/50 (14%)	4/50 (8%)	5/49 (10%)
LITTERS (b)	4/25 (16%)	6/25 (24%)	6/25 (24%)	4/25 (16%)	4/25 (16%)
POLY-3 RATE (c)	4/38.62	6/42.45	7/47.30	4/45.72	5/34.55
POLY-3 PERCENT (g)	10.4%	14.1%	14.8%	8.8%	14.5%
TERMINAL (d)	3/25 (12%)	4/33 (12%)	6/40 (15%)	1/35 (3%)	3/29 (10%)
FIRST INCIDENCE	657	673	698	628	717
STATISTICAL TESTS					
POLY 3	P=0.526	P=0.430	P=0.388	P=0.548N	P=0.430
POLY 1.5	P=0.517	P=0.401	P=0.339	P=0.586N	P=0.405
POLY 6	P=0.554	P=0.467	P=0.446	P=0.503N	P=0.479
RAO-SCOTT	P=0.493	P=0.430	P=0.394	P=0.542N	P=0.418
LITTER C-A/FISHERS	P=0.372N	P=0.363	P=0.363	P=0.649	P=0.649

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

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

Pituitary Gland: Pars Distalis or Unspecified Site
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	4/50 (8%)	6/49 (12%)	7/50 (14%)	4/50 (8%)	5/49 (10%)
LITTERS (b)	4/25 (16%)	6/25 (24%)	6/25 (24%)	4/25 (16%)	4/25 (16%)
POLY-3 RATE (c)	4/38.62	6/42.45	7/47.30	4/45.72	5/34.55
POLY-3 PERCENT (g)	10.4%	14.1%	14.8%	8.8%	14.5%
TERMINAL (d)	3/25 (12%)	4/33 (12%)	6/40 (15%)	1/35 (3%)	3/29 (10%)
FIRST INCIDENCE	657	673	698	628	717

STATISTICAL TESTS

POLY 3	P=0.526	P=0.430	P=0.388	P=0.548N	P=0.430
POLY 1.5	P=0.517	P=0.401	P=0.339	P=0.586N	P=0.405
POLY 6	P=0.554	P=0.467	P=0.446	P=0.503N	P=0.479
RAO-SCOTT	P=0.493	P=0.430	P=0.394	P=0.542N	P=0.418
LITTER C-A/FISHERS	P=0.372N	P=0.363	P=0.363	P=0.649	P=0.649

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Salivary Glands					
Sarcoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/48 (0%)	2/50 (4%)	0/50 (0%)	0/49 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.35	0/41.44	2/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	0%	4.2%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	2/40 (5%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.475N	(e)	P=0.286	(e)	(e)
POLY 1.5	P=0.487N	(e)	P=0.267	(e)	(e)
POLY 6	P=0.459N	(e)	P=0.309	(e)	(e)
RAO-SCOTT	P=0.546N	(e)	P=0.406	(e)	(e)
LITTER C-A/FISHERS	P=0.483N	(e)	P=0.245	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Salivary Glands					
Schwannoma Malignant					
TUMOR RATES					
OVERALL (a)	2/50 (4%)	0/48 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	2/39.52	0/41.44	0/47.18	1/44.66	0/34.50
POLY-3 PERCENT (g)	5.1%	0%	0%	2.2%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	0/40 (0%)	1/35 (3%)	0/29 (0%)
FIRST INCIDENCE	540	---	---	729 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.432N	P=0.226N	P=0.200N	P=0.457N	P=0.268N
POLY 1.5	P=0.424N	P=0.234N	P=0.213N	P=0.473N	P=0.276N
POLY 6	P=0.439N	P=0.217N	P=0.187N	P=0.441N	P=0.252N
RAO-SCOTT	P=0.445N	P=0.332N	P=0.314N	P=0.523N	P=0.343N
LITTER C-A/FISHERS	P=0.372N	P=0.245N	P=0.245N	P=0.500N	P=0.245N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	4/50 (8%)	3/49 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	4/25 (16%)	3/25 (12%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	4/38.56	3/42.09	1/47.18	2/44.87	1/34.50
POLY-3 PERCENT (g)	10.4%	7.1%	2.1%	4.5%	2.9%
TERMINAL (d)	3/25 (12%)	3/33 (9%)	1/40 (3%)	1/35 (3%)	1/29 (3%)
FIRST INCIDENCE	673	729 (T)	729 (T)	674	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.274N	P=0.452N	P=0.124N	P=0.270N	P=0.213N
POLY 1.5	P=0.270N	P=0.475N	P=0.143N	P=0.295N	P=0.228N
POLY 6	P=0.272N	P=0.425N	P=0.106N	P=0.243N	P=0.186N
RAO-SCOTT	P=0.260N	P=0.452N	P=0.146N	P=0.285N	P=0.217N
LITTER C-A/FISHERS	P=0.197N	P=0.500N	P=0.174N	P=0.334N	P=0.174N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibroma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	7/49 (14%)	4/50 (8%)	4/50 (8%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	6/25 (24%)	4/25 (16%)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	3/38.35	7/42.44	4/47.30	4/45.34	0/34.50
POLY-3 PERCENT (g)	7.8%	16.5%	8.5%	8.8%	0%
TERMINAL (d)	3/25 (12%)	6/33 (18%)	3/40 (8%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	631	698	645	---
STATISTICAL TESTS					
POLY 3	P=0.044N*	P=0.199	P=0.612	P=0.590	P=0.138N
POLY 1.5	P=0.046N*	P=0.179	P=0.571	P=0.555	P=0.147N
POLY 6	P=0.038N*	P=0.229	P=0.644N	P=0.632	P=0.121N
RAO-SCOTT	P=0.047N*	P=0.219	P=0.606	P=0.583	P=0.145N
LITTER C-A/FISHERS	P=0.028N*	P=0.232	P=0.500	P=0.500	P=0.117N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	9/49 (18%)	5/50 (10%)	4/50 (8%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	8/25 (32%)	5/25 (20%)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	3/38.35	9/43.19	5/47.30	4/45.34	0/34.50
POLY-3 PERCENT (g)	7.8%	20.8%	10.6%	8.8%	0%
TERMINAL (d)	3/25 (12%)	6/33 (18%)	4/40 (10%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	577	698	645	---
STATISTICAL TESTS					
POLY 3	P=0.021N*	P=0.088	P=0.476	P=0.590	P=0.138N
POLY 1.5	P=0.023N*	P=0.073	P=0.430	P=0.555	P=0.147N
POLY 6	P=0.018N*	P=0.112	P=0.529	P=0.632	P=0.121N
RAO-SCOTT	P=0.025N*	P=0.106	P=0.475	P=0.580	P=0.139N
LITTER C-A/FISHERS	P=0.012N*	P=0.085	P=0.351	P=0.500	P=0.117N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	9/49 (18%)	5/50 (10%)	4/50 (8%)	0/50 (0%)
LITTERS (b)	3/25 (12%)	8/25 (32%)	5/25 (20%)	4/25 (16%)	0/25 (0%)
POLY-3 RATE (c)	3/38.35	9/43.19	5/47.30	4/45.34	0/34.50
POLY-3 PERCENT (g)	7.8%	20.8%	10.6%	8.8%	0%
TERMINAL (d)	3/25 (12%)	6/33 (18%)	4/40 (10%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	577	698	645	---
STATISTICAL TESTS					
POLY 3	P=0.021N*	P=0.088	P=0.476	P=0.590	P=0.138N
POLY 1.5	P=0.023N*	P=0.073	P=0.430	P=0.555	P=0.147N
POLY 6	P=0.018N*	P=0.112	P=0.529	P=0.632	P=0.121N
RAO-SCOTT	P=0.025N*	P=0.106	P=0.475	P=0.580	P=0.139N
LITTER C-A/FISHERS	P=0.012N*	P=0.085	P=0.351	P=0.500	P=0.117N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibrosarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	2/49 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.35	2/42.84	1/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	4.7%	2.1%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	577	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.292N	P=0.263	P=0.541	(e)	(e)
POLY 1.5	P=0.300N	P=0.250	P=0.526	(e)	(e)
POLY 6	P=0.281N	P=0.279	P=0.558	(e)	(e)
RAO-SCOTT	P=0.359N	P=0.350	P=0.619	(e)	(e)
LITTER C-A/FISHERS	P=0.292N	P=0.245	P=0.500	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	2/49 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.35	2/42.84	1/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	4.7%	2.1%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	577	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.292N	P=0.263	P=0.541	(e)	(e)
POLY 1.5	P=0.300N	P=0.250	P=0.526	(e)	(e)
POLY 6	P=0.281N	P=0.279	P=0.558	(e)	(e)
RAO-SCOTT	P=0.359N	P=0.350	P=0.619	(e)	(e)
LITTER C-A/FISHERS	P=0.292N	P=0.245	P=0.500	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/49 (6%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	0/25 (0%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	2/38.56	3/42.09	0/47.18	1/44.66	1/34.50
POLY-3 PERCENT (g)	5.2%	7.1%	0%	2.2%	2.9%
TERMINAL (d)	1/25 (4%)	3/33 (9%)	0/40 (0%)	1/35 (3%)	1/29 (3%)
FIRST INCIDENCE	673	729 (T)	---	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.453N	P=0.540	P=0.196N	P=0.449N	P=0.539N
POLY 1.5	P=0.449N	P=0.521	P=0.210N	P=0.468N	P=0.553N
POLY 6	P=0.453N	P=0.562	P=0.180N	P=0.428N	P=0.512N
RAO-SCOTT	P=0.449N	P=0.541	P=0.237N	P=0.465N	P=0.520N
LITTER C-A/FISHERS	P=0.392N	P=0.500	P=0.245N	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	2/38.67	0/42.09	0/47.18	0/44.66	2/34.62
POLY-3 PERCENT (g)	5.2%	0%	0%	0%	5.8%
TERMINAL (d)	1/25 (4%)	0/33 (0%)	0/40 (0%)	0/35 (0%)	1/29 (3%)
FIRST INCIDENCE	642	---	---	---	699
STATISTICAL TESTS					
POLY 3	P=0.198	P=0.218N	P=0.196N	P=0.206N	P=0.654
POLY 1.5	P=0.204	P=0.227N	P=0.210N	P=0.218N	P=0.638
POLY 6	P=0.194	P=0.209N	P=0.181N	P=0.195N	P=0.684
RAO-SCOTT	P=0.264	P=0.344N	P=0.331N	P=0.336N	P=0.655
LITTER C-A/FISHERS	P=0.245	P=0.245N	P=0.245N	P=0.245N	P=0.695

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	3/49 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	3/25 (12%)	3/25 (12%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	3/38.56	3/42.09	1/47.18	2/44.87	1/34.50
POLY-3 PERCENT (g)	7.8%	7.1%	2.1%	4.5%	2.9%
TERMINAL (d)	2/25 (8%)	3/33 (9%)	1/40 (3%)	1/35 (3%)	1/29 (3%)
FIRST INCIDENCE	673	729 (T)	729 (T)	674	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.342N	P=0.622N	P=0.238N	P=0.431N	P=0.345N
POLY 1.5	P=0.340N	P=0.641N	P=0.262N	P=0.458N	P=0.361N
POLY 6	P=0.337N	P=0.598N	P=0.213N	P=0.402N	P=0.316N
RAO-SCOTT	P=0.323N	P=0.607N	P=0.253N	P=0.432N	P=0.332N
LITTER C-A/FISHERS	P=0.262N	P=0.666	P=0.305N	P=0.500N	P=0.305N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/49 (6%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	3/25 (12%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	2/38.56	3/42.09	1/47.18	1/44.66	1/34.50
POLY-3 PERCENT (g)	5.2%	7.1%	2.1%	2.2%	2.9%
TERMINAL (d)	1/25 (4%)	3/33 (9%)	1/40 (3%)	1/35 (3%)	1/29 (3%)
FIRST INCIDENCE	673	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.389N	P=0.540	P=0.430N	P=0.449N	P=0.539N
POLY 1.5	P=0.389N	P=0.521	P=0.456N	P=0.468N	P=0.553N
POLY 6	P=0.384N	P=0.562	P=0.403N	P=0.428N	P=0.512N
RAO-SCOTT	P=0.384N	P=0.532	P=0.436N	P=0.450N	P=0.508N
LITTER C-A/FISHERS	P=0.330N	P=0.500	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis					
Adenoma					
TUMOR RATES					
OVERALL (a)	3/49 (6%)	1/49 (2%)	3/50 (6%)	5/50 (10%)	5/49 (10%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	3/25 (12%)	5/25 (20%)	4/25 (16%)
POLY-3 RATE (c)	3/37.91	1/42.09	3/47.18	5/44.72	5/35.43
POLY-3 PERCENT (g)	7.9%	2.4%	6.4%	11.2%	14.1%
TERMINAL (d)	1/25 (4%)	1/33 (3%)	3/40 (8%)	4/35 (11%)	4/29 (14%)
FIRST INCIDENCE	707	729 (T)	729 (T)	713	295
STATISTICAL TESTS					
POLY 3	P=0.078	P=0.268N	P=0.558N	P=0.450	P=0.317
POLY 1.5	P=0.077	P=0.282N	P=0.593N	P=0.419	P=0.295
POLY 6	P=0.086	P=0.253N	P=0.518N	P=0.485	P=0.359
RAO-SCOTT	P=0.097	P=0.295N	P=0.562N	P=0.461	P=0.330
LITTER C-A/FISHERS	P=0.258	P=0.305N	P=0.666	P=0.351	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: C-Cell Adenoma					
TUMOR RATES					
OVERALL (a)	10/50 (20%)	16/49 (33%)	16/50 (32%)	10/50 (20%)	4/50 (8%)
LITTERS (b)	10/25 (40%)	13/25 (52%)	13/25 (52%)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	10/40.08	16/43.98	16/47.85	10/44.70	4/34.81
POLY-3 PERCENT (g)	25%	36.4%	33.4%	22.4%	11.5%
TERMINAL (d)	7/25 (28%)	11/33 (33%)	14/40 (35%)	9/35 (26%)	3/29 (10%)
FIRST INCIDENCE	476	486	557	719	645
STATISTICAL TESTS					
POLY 3	P=0.015N*	P=0.183	P=0.264	P=0.491N	P=0.115N
POLY 1.5	P=0.016N*	P=0.152	P=0.206	P=0.531N	P=0.130N
POLY 6	P=0.011N*	P=0.229	P=0.338	P=0.447N	P=0.089N
RAO-SCOTT	P=0.017N*	P=0.197	P=0.275	P=0.487N	P=0.122N
LITTER C-A/FISHERS	P=0.004N**	P=0.285	P=0.285	P=0.384N	P=0.057N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: C-Cell Carcinoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	2/49 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	3/25 (12%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/38.35	2/42.09	3/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	2.6%	4.8%	6.4%	0%	0%
TERMINAL (d)	1/25 (4%)	2/33 (6%)	3/40 (8%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.143N	P=0.532	P=0.383	P=0.470N	P=0.521N
POLY 1.5	P=0.148N	P=0.517	P=0.353	P=0.481N	P=0.530N
POLY 6	P=0.134N	P=0.551	P=0.418	P=0.457N	P=0.505N
RAO-SCOTT	P=0.178N	P=0.543	P=0.416	P=0.504N	P=0.505N
LITTER C-A/FISHERS	P=0.129N	P=0.500	P=0.305	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: C-Cell Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	10/50 (20%)	18/49 (37%)	19/50 (38%)	10/50 (20%)	4/50 (8%)
LITTERS (b)	10/25 (40%)	14/25 (56%)	15/25 (60%)	8/25 (32%)	4/25 (16%)
POLY-3 RATE (c)	10/40.08	18/43.98	19/47.85	10/44.70	4/34.81
POLY-3 PERCENT (g)	25%	40.9%	39.7%	22.4%	11.5%
TERMINAL (d)	7/25 (28%)	13/33 (39%)	17/40 (43%)	9/35 (26%)	3/29 (10%)
FIRST INCIDENCE	476	486	557	719	645
STATISTICAL TESTS					
POLY 3	P=0.005N**	P=0.090	P=0.106	P=0.491N	P=0.115N
POLY 1.5	P=0.006N**	P=0.071	P=0.074	P=0.531N	P=0.130N
POLY 6	P=0.004N**	P=0.119	P=0.154	P=0.447N	P=0.089N
RAO-SCOTT	P=0.007N**	P=0.105	P=0.121	P=0.487N	P=0.121N
LITTER C-A/FISHERS	P=0.002N**	P=0.198	P=0.129	P=0.384N	P=0.057N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: Follicular Cell Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/49 (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)	0/38.35	0/42.09	0/47.18	0/44.66	2/34.50
POLY-3 PERCENT (g)	0%	0%	0%	0%	5.8%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	0/40 (0%)	0/35 (0%)	2/29 (7%)
FIRST INCIDENCE	---	---	---	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.015*	(e)	(e)	(e)	P=0.214
POLY 1.5	P=0.015*	(e)	(e)	(e)	P=0.205
POLY 6	P=0.015*	(e)	(e)	(e)	P=0.231
RAO-SCOTT	P=0.068	(e)	(e)	(e)	P=0.362
LITTER C-A/FISHERS	P=0.019*	(e)	(e)	(e)	P=0.245

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Hemangiosarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/49 (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)	0/38.35	0/42.09	2/47.32	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	0%	4.2%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	694	---	---
STATISTICAL TESTS					
POLY 3	P=0.473N	(e)	P=0.287	(e)	(e)
POLY 1.5	P=0.487N	(e)	P=0.268	(e)	(e)
POLY 6	P=0.456N	(e)	P=0.310	(e)	(e)
RAO-SCOTT	P=0.541N	(e)	P=0.407	(e)	(e)
LITTER C-A/FISHERS	P=0.483N	(e)	P=0.245	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Hemangiosarcoma or Hemangioma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/49 (0%)	3/50 (6%)	0/50 (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)	0/38.35	0/42.09	3/47.52	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	0%	6.3%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	675	---	---
STATISTICAL TESTS					
POLY 3	P=0.366N	(e)	P=0.162	(e)	(e)
POLY 1.5	P=0.382N	(e)	P=0.145	(e)	(e)
POLY 6	P=0.345N	(e)	P=0.185	(e)	(e)
RAO-SCOTT	P=0.447N	(e)	P=0.269	(e)	(e)
LITTER C-A/FISHERS	P=0.372N	(e)	P=0.117	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Histiocytic Sarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	2/49 (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)	0/38.35	2/42.44	0/47.18	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	4.7%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	1/33 (3%)	0/40 (0%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	631	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.372N	P=0.260	(e)	(e)	(e)
POLY 1.5	P=0.376N	P=0.249	(e)	(e)	(e)
POLY 6	P=0.367N	P=0.275	(e)	(e)	(e)
RAO-SCOTT	P=0.470N	P=0.398	(e)	(e)	(e)
LITTER C-A/FISHERS	P=0.378N	P=0.245	(e)	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Date Report Requested: 02/10/2020

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	2/49 (4%)	5/50 (10%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	4/25 (16%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/38.35	2/42.90	5/47.41	0/44.66	0/34.50
POLY-3 PERCENT (g)	0%	4.7%	10.6%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	4/40 (10%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	---	545	669	---	---
STATISTICAL TESTS					
POLY 3	P=0.133N	P=0.263	P=0.053	(e)	(e)
POLY 1.5	P=0.143N	P=0.251	P=0.044*	(e)	(e)
POLY 6	P=0.118N	P=0.279	P=0.067	(e)	(e)
RAO-SCOTT	P=0.229N	P=0.384	P=0.135	(e)	(e)
LITTER C-A/FISHERS	P=0.154N	P=0.245	P=0.055	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/49 (0%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/38.35	0/42.09	3/47.41	0/44.66	1/34.50
POLY-3 PERCENT (g)	0%	0%	6.3%	0%	2.9%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	2/40 (5%)	0/35 (0%)	1/29 (3%)
FIRST INCIDENCE	---	---	669	---	729 (T)
STATISTICAL TESTS					
POLY 3	P=0.575	(e)	P=0.162	(e)	P=0.479
POLY 1.5	P=0.560	(e)	P=0.144	(e)	P=0.470
POLY 6	P=0.599	(e)	P=0.184	(e)	P=0.495
RAO-SCOTT	P=0.584	(e)	P=0.332	(e)	P=0.606
LITTER C-A/FISHERS	P=0.505	(e)	P=0.245	(e)	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant Schwannoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	6/50 (12%)	1/49 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
LITTERS (b)	6/25 (24%)	1/25 (4%)	2/25 (8%)	2/25 (8%)	2/25 (8%)
POLY-3 RATE (c)	6/39.84	1/42.67	2/47.32	2/44.66	2/34.62
POLY-3 PERCENT (g)	15.1%	2.3%	4.2%	4.5%	5.8%
TERMINAL (d)	3/25 (12%)	0/33 (0%)	1/40 (3%)	2/35 (6%)	1/29 (3%)
FIRST INCIDENCE	540	546	694	729 (T)	699
STATISTICAL TESTS					
POLY 3	P=0.443N	P=0.045N*	P=0.085N	P=0.098N	P=0.181N
POLY 1.5	P=0.434N	P=0.050N*	P=0.100N	P=0.110N	P=0.193N
POLY 6	P=0.445N	P=0.039N*	P=0.070N	P=0.087N	P=0.156N
RAO-SCOTT	P=0.425N	P=0.061N	P=0.104N	P=0.118N	P=0.188N
LITTER C-A/FISHERS	P=0.336N	P=0.049N*	P=0.123N	P=0.123N	P=0.123N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Mesothelioma: Benign, Malignant, NOS					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/49 (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)	1/38.81	0/42.09	2/47.32	0/44.66	0/34.50
POLY-3 PERCENT (g)	2.6%	0%	4.2%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	593	---	694	---	---
STATISTICAL TESTS					
POLY 3	P=0.328N	P=0.484N	P=0.568	P=0.472N	P=0.523N
POLY 1.5	P=0.332N	P=0.491N	P=0.543	P=0.483N	P=0.531N
POLY 6	P=0.321N	P=0.475N	P=0.596	P=0.461N	P=0.509N
RAO-SCOTT	P=0.382N	P=0.565N	P=0.610	P=0.562N	P=0.555N
LITTER C-A/FISHERS	P=0.314N	P=0.500N	P=0.500	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Mesothelioma: Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/49 (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)	1/38.81	0/42.09	2/47.32	0/44.66	0/34.50
POLY-3 PERCENT (g)	2.6%	0%	4.2%	0%	0%
TERMINAL (d)	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
FIRST INCIDENCE	593	---	694	---	---
STATISTICAL TESTS					
POLY 3	P=0.328N	P=0.484N	P=0.568	P=0.472N	P=0.523N
POLY 1.5	P=0.332N	P=0.491N	P=0.543	P=0.483N	P=0.531N
POLY 6	P=0.321N	P=0.475N	P=0.596	P=0.461N	P=0.509N
RAO-SCOTT	P=0.382N	P=0.565N	P=0.610	P=0.562N	P=0.555N
LITTER C-A/FISHERS	P=0.314N	P=0.500N	P=0.500	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	28/50 (56%)	31/49 (63%)	32/50 (64%)	44/50 (88%)	30/50 (60%)
LITTERS (b)	19/25 (76%)	20/25 (80%)	22/25 (88%)	25/25 (100%)	19/25 (76%)
POLY-3 RATE (c)	28/41.37	31/44.34	32/48.06	44/47.26	30/37.66
POLY-3 PERCENT (g)	67.7%	69.9%	66.6%	93.1%	79.7%
TERMINAL (d)	19/25 (76%)	24/33 (73%)	29/40 (73%)	34/35 (97%)	23/29 (79%)
FIRST INCIDENCE	476	486	557	534	295
STATISTICAL TESTS					
POLY 3	P=0.052	P=0.505	P=0.548N	P<0.001**	P=0.156
POLY 1.5	P=0.048*	P=0.416	P=0.496	P<0.001**	P=0.113
POLY 6	P=0.082	P=0.584N	P=0.399N	P=0.002**	P=0.277
RAO-SCOTT	P=0.086	P=0.504	P=0.544N	P=0.005**	P=0.183
LITTER C-A/FISHERS	P=0.402N	P=0.500	P=0.232	P=0.011*	P=0.629

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	15/50 (30%)	14/49 (29%)	16/50 (32%)	8/50 (16%)	15/50 (30%)
LITTERS (b)	12/25 (48%)	12/25 (48%)	12/25 (48%)	8/25 (32%)	11/25 (44%)
POLY-3 RATE (c)	15/43.46	14/44.92	16/48.59	8/45.57	15/37.21
POLY-3 PERCENT (g)	34.5%	31.2%	32.9%	17.6%	40.3%
TERMINAL (d)	5/25 (20%)	7/33 (21%)	12/40 (30%)	3/35 (9%)	10/29 (35%)
FIRST INCIDENCE	328	545	512	632	295
STATISTICAL TESTS					
POLY 3	P=0.323	P=0.457N	P=0.524N	P=0.054N	P=0.380
POLY 1.5	P=0.324	P=0.487N	P=0.577N	P=0.061N	P=0.356
POLY 6	P=0.342	P=0.415N	P=0.466N	P=0.046N*	P=0.439
RAO-SCOTT	P=0.297	P=0.471N	P=0.533N	P=0.082N	P=0.392
LITTER C-A/FISHERS	P=0.419N	P=0.611	P=0.611	P=0.193N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant and Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	36/50 (72%)	38/49 (78%)	42/50 (84%)	44/50 (88%)	35/50 (70%)
LITTERS (b)	21/25 (84%)	24/25 (96%)	24/25 (96%)	25/25 (100%)	21/25 (84%)
POLY-3 RATE (c)	36/45.71	38/46.07	42/49.47	44/47.26	35/38.42
POLY-3 PERCENT (g)	78.8%	82.5%	84.9%	93.1%	91.1%
TERMINAL (d)	19/25 (76%)	27/33 (82%)	35/40 (88%)	34/35 (97%)	26/29 (90%)
FIRST INCIDENCE	328	486	512	534	295
STATISTICAL TESTS					
POLY 3	P=0.070	P=0.422	P=0.297	P=0.030*	P=0.091
POLY 1.5	P=0.087	P=0.381	P=0.217	P=0.030*	P=0.092
POLY 6	P=0.084	P=0.498	P=0.398	P=0.033*	P=0.136
RAO-SCOTT	P=0.094	P=0.439	P=0.327	P=0.060	P=0.120
LITTER C-A/FISHERS	P=0.207N	P=0.174	P=0.174	P=0.055	P=0.649

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex					
Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Medulla					
Pheochromocytoma Benign					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	1/50 (2%)	0/47 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	4/25 (16%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	4/42.91	1/43.14	0/36.29
POLY-3 PERCENT (g)	0%	0%	9.3%	2.3%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	3/34 (9%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	---	---	533	707	---
STATISTICAL TESTS					
POLY 3	P=0.362N	(e)	P=0.061	P=0.502	(e)
POLY 1.5	P=0.366N	(e)	P=0.060	P=0.500	(e)
POLY 6	P=0.360N	(e)	P=0.062	P=0.506	(e)
RAO-SCOTT	P=0.403N	(e)	P=0.124	P=0.587	(e)
LITTER C-A/FISHERS	P=0.321N	(e)	P=0.055	P=0.500	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Medulla					
Pheochromocytoma Malignant					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Medulla					
Pheochromocytoma: Benign, Complex, Malignant, NOS					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	4/50 (8%)	1/50 (2%)	0/47 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	4/25 (16%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	4/42.91	1/43.14	0/36.29
POLY-3 PERCENT (g)	0%	0%	9.3%	2.3%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	3/34 (9%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	---	---	533	707	---
STATISTICAL TESTS					
POLY 3	P=0.362N	(e)	P=0.061	P=0.502	(e)
POLY 1.5	P=0.366N	(e)	P=0.060	P=0.500	(e)
POLY 6	P=0.360N	(e)	P=0.062	P=0.506	(e)
RAO-SCOTT	P=0.403N	(e)	P=0.124	P=0.587	(e)
LITTER C-A/FISHERS	P=0.321N	(e)	P=0.055	P=0.500	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Brain					
Glioma Malignant					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (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)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Brain					
Oligodendroglioma, Glioma, or Astrocytoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (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)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Heart					
Schwannoma Malignant					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)	1/48 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/42.41	0/41.33	1/42.63	0/42.40	1/36.29
POLY-3 PERCENT (g)	0%	0%	2.4%	0%	2.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	1/27 (4%)
FIRST INCIDENCE	---	---	640	---	732 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Intestine Small: Jejunum Carcinoma					
TUMOR 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)	0/42.64	1/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	---	732 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Intestine Small: Site Unspecified Carcinoma					
TUMOR 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)	0/42.64	1/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	---	732 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Islets, Pancreatic Adenoma					
TUMOR RATES					
OVERALL (a)	3/49 (6%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	1/25 (4%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	3/42.41	0/41.33	1/42.59	0/43.04	0/36.29
POLY-3 PERCENT (g)	7.1%	0%	2.4%	0%	0%
TERMINAL (d)	3/31 (10%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	732 (T)	---	651	---	---
STATISTICAL TESTS					
POLY 3	P=0.178N	P=0.123N	P=0.303N	P=0.116N	P=0.149N
POLY 1.5	P=0.180N	P=0.121N	P=0.303N	P=0.117N	P=0.149N
POLY 6	P=0.177N	P=0.123N	P=0.301N	P=0.113N	P=0.149N
RAO-SCOTT	P=0.254N	P=0.208N	P=0.381N	P=0.203N	P=0.225N
LITTER C-A/FISHERS	P=0.172N	P=0.117N	P=0.305N	P=0.117N	P=0.117N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Kidney: Renal Tubule Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	5/50 (10%)	9/50 (18%)	5/48 (10%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	4/25 (16%)	7/25 (28%)	5/25 (20%)
POLY-3 RATE (c)	1/42.41	0/41.33	5/42.30	9/43.04	5/36.29
POLY-3 PERCENT (g)	2.4%	0%	11.8%	20.9%	13.8%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	5/34 (15%)	9/34 (27%)	5/27 (19%)
FIRST INCIDENCE	732 (T)	---	732 (T)	732 (T)	732 (T)
STATISTICAL TESTS					
POLY 3	P=0.041*	P=0.505N	P=0.100	P=0.008**	P=0.069
POLY 1.5	P=0.040*	P=0.503N	P=0.102	P=0.008**	P=0.069
POLY 6	P=0.039*	P=0.506N	P=0.099	P=0.008**	P=0.067
RAO-SCOTT	P=0.089	P=0.587N	P=0.170	P=0.033*	P=0.126
LITTER C-A/FISHERS	P=0.054	P=0.500N	P=0.174	P=0.024*	P=0.095

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Carcinoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	8/48 (17%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	7/25 (28%)
POLY-3 RATE (c)	0/42.41	0/41.33	0/42.30	0/43.04	8/36.71
POLY-3 PERCENT (g)	0%	0%	0%	0%	21.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	6/27 (22%)
FIRST INCIDENCE	---	---	---	---	624
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.002**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.002**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**
RAO-SCOTT	P<0.001**	(e)	(e)	(e)	P=0.023*
LITTER C-A/FISHERS	P<0.001**	(e)	(e)	(e)	P=0.005**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Carcinoma or Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	5/50 (10%)	9/50 (18%)	13/48 (27%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	4/25 (16%)	7/25 (28%)	11/25 (44%)
POLY-3 RATE (c)	1/42.41	0/41.33	5/42.30	9/43.04	13/36.71
POLY-3 PERCENT (g)	2.4%	0%	11.8%	20.9%	35.4%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	5/34 (15%)	9/34 (27%)	11/27 (41%)
FIRST INCIDENCE	732 (T)	---	732 (T)	732 (T)	624
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.505N	P=0.100	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	P=0.503N	P=0.102	P=0.008**	P<0.001**
POLY 6	P<0.001**	P=0.506N	P=0.099	P=0.008**	P<0.001**
RAO-SCOTT	P<0.001**	P=0.568N	P=0.158	P=0.028*	P=0.002**
LITTER C-A/FISHERS	P<0.001**	P=0.500N	P=0.174	P=0.024*	P<0.001**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	0/50 (0%)	5/50 (10%)	9/50 (18%)	13/48 (27%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	4/25 (16%)	7/25 (28%)	11/25 (44%)
POLY-3 RATE (c)	1/42.41	0/41.33	5/42.30	9/43.04	13/36.71
POLY-3 PERCENT (g)	2.4%	0%	11.8%	20.9%	35.4%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	5/34 (15%)	9/34 (27%)	11/27 (41%)
FIRST INCIDENCE	732 (T)	---	732 (T)	732 (T)	624
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.505N	P=0.100	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	P=0.503N	P=0.102	P=0.008**	P<0.001**
POLY 6	P<0.001**	P=0.506N	P=0.099	P=0.008**	P<0.001**
RAO-SCOTT	P<0.001**	P=0.568N	P=0.158	P=0.028*	P=0.002**
LITTER C-A/FISHERS	P<0.001**	P=0.500N	P=0.174	P=0.024*	P<0.001**

Experiment Number: 10188 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Di(2-ethylhexyl) Phthalate
 CAS Number: 117-81-7

Date Report Requested: 02/10/2020
 Time Report Requested: 16:27:29
 First Dose M/F: 06/27/11 / 06/28/11
 Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	2/25 (8%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/42.95	2/41.45	2/42.30	1/43.04	0/36.29
POLY-3 PERCENT (g)	2.3%	4.8%	4.7%	2.3%	0%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	2/34 (6%)	1/34 (3%)	0/27 (0%)
FIRST INCIDENCE	645	701	732 (T)	732 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.221N	P=0.488	P=0.495	P=0.760N	P=0.533N
POLY 1.5	P=0.222N	P=0.491	P=0.496	P=0.759	P=0.534N
POLY 6	P=0.221N	P=0.487	P=0.494	P=0.758N	P=0.535N
RAO-SCOTT	P=0.223N	P=0.496	P=0.505	P=0.752N	P=0.516N
LITTER C-A/FISHERS	P=0.182N	P=0.500	P=0.500	P=0.755	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	5/50 (10%)	1/50 (2%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	3/25 (12%)	5/25 (20%)	1/25 (4%)	1/25 (4%)
POLY-3 RATE (c)	1/42.64	3/41.33	5/44.82	1/43.04	1/36.67
POLY-3 PERCENT (g)	2.4%	7.3%	11.2%	2.3%	2.7%
TERMINAL (d)	1/31 (3%)	3/32 (9%)	2/34 (6%)	1/34 (3%)	0/27 (0%)
FIRST INCIDENCE	732 (T)	732 (T)	284	732 (T)	624
STATISTICAL TESTS					
POLY 3	P=0.272N	P=0.294	P=0.113	P=0.759N	P=0.726
POLY 1.5	P=0.277N	P=0.297	P=0.109	P=0.760	P=0.724
POLY 6	P=0.268N	P=0.294	P=0.116	P=0.755N	P=0.728
RAO-SCOTT	P=0.284N	P=0.313	P=0.141	P=0.748N	P=0.699
LITTER C-A/FISHERS	P=0.221N	P=0.305	P=0.095	P=0.755	P=0.755

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Carcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	5/50 (10%)	7/50 (14%)	2/50 (4%)	1/50 (2%)
LITTERS (b)	2/25 (8%)	5/25 (20%)	7/25 (28%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	2/42.95	5/41.45	7/44.82	2/43.04	1/36.67
POLY-3 PERCENT (g)	4.7%	12.1%	15.6%	4.7%	2.7%
TERMINAL (d)	1/31 (3%)	4/32 (13%)	4/34 (12%)	2/34 (6%)	0/27 (0%)
FIRST INCIDENCE	645	701	284	732 (T)	624
STATISTICAL TESTS					
POLY 3	P=0.116N	P=0.201	P=0.088	P=0.693N	P=0.555N
POLY 1.5	P=0.119N	P=0.205	P=0.086	P=0.692	P=0.557N
POLY 6	P=0.115N	P=0.200	P=0.090	P=0.690N	P=0.554N
RAO-SCOTT	P=0.120N	P=0.212	P=0.105	P=0.680N	P=0.529N
LITTER C-A/FISHERS	P=0.074N	P=0.209	P=0.069	P=0.695	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Fibroadenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	28/50 (56%)	26/50 (52%)	26/50 (52%)	27/50 (54%)	10/50 (20%)
LITTERS (b)	20/25 (80%)	17/25 (68%)	20/25 (80%)	20/25 (80%)	9/25 (36%)
POLY-3 RATE (c)	28/45.49	26/45.30	26/45.54	27/46.48	10/38.27
POLY-3 PERCENT (g)	61.6%	57.4%	57.1%	58.1%	26.1%
TERMINAL (d)	20/31 (65%)	17/32 (53%)	17/34 (50%)	18/34 (53%)	5/27 (19%)
FIRST INCIDENCE	368	415	500	359	576
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.423N	P=0.412N	P=0.449N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.435N	P=0.428N	P=0.488N	P<0.001N**
POLY 6	P<0.001N**	P=0.388N	P=0.374N	P=0.388N	P<0.001N**
RAO-SCOTT	P<0.001N**	P=0.425N	P=0.414N	P=0.451N	P=0.002N**
LITTER C-A/FISHERS	P<0.001N**	P=0.260N	P=0.637	P=0.637	P=0.002N**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland					
Fibroma, Fibroadenoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	29/50 (58%)	28/50 (56%)	28/50 (56%)	28/50 (56%)	10/50 (20%)
LITTERS (b)	21/25 (84%)	18/25 (72%)	20/25 (80%)	20/25 (80%)	9/25 (36%)
POLY-3 RATE (c)	29/45.81	28/45.42	28/45.54	28/46.48	10/38.27
POLY-3 PERCENT (g)	63.3%	61.6%	61.5%	60.2%	26.1%
TERMINAL (d)	20/31 (65%)	18/32 (56%)	19/34 (56%)	19/34 (56%)	5/27 (19%)
FIRST INCIDENCE	368	415	500	359	576
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.521N	P=0.515N	P=0.464N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.526N	P=0.522N	P=0.496N	P<0.001N**
POLY 6	P<0.001N**	P=0.492N	P=0.490N	P=0.413N	P<0.001N**
RAO-SCOTT	P<0.001N**	P=0.519N	P=0.513N	P=0.466N	P<0.001N**
LITTER C-A/FISHERS	P<0.001N**	P=0.248N	P=0.500N	P=0.500N	P<0.001N**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland					
Fibroma, Fibroadenoma, Carcinoma, or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	30/50 (60%)	30/50 (60%)	32/50 (64%)	29/50 (58%)	11/50 (22%)
LITTERS (b)	21/25 (84%)	18/25 (72%)	22/25 (88%)	20/25 (80%)	10/25 (40%)
POLY-3 RATE (c)	30/45.81	30/45.42	32/48.06	29/46.48	11/38.65
POLY-3 PERCENT (g)	65.5%	66.1%	66.6%	62.4%	28.5%
TERMINAL (d)	21/31 (68%)	20/32 (63%)	20/34 (59%)	20/34 (59%)	5/27 (19%)
FIRST INCIDENCE	368	415	284	359	576
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.567	P=0.544	P=0.462N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.559	P=0.495	P=0.496N	P<0.001N**
POLY 6	P<0.001N**	P=0.583N	P=0.582N	P=0.408N	P<0.001N**
RAO-SCOTT	P<0.001N**	P=0.563	P=0.544	P=0.466N	P<0.001N**
LITTER C-A/FISHERS	P<0.001N**	P=0.248N	P=0.500	P=0.500N	P=0.002N**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ovary					
Granulosa Cell Tumor: Benign, Malignant, NOS					
TUMOR RATES					
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	2/25 (8%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	2/42.64	1/41.96	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	4.7%	2.4%	0%	0%	0%
TERMINAL (d)	2/31 (7%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	732 (T)	526	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.237N	P=0.506N	P=0.239N	P=0.235N	P=0.274N
POLY 1.5	P=0.238N	P=0.505N	P=0.239N	P=0.237N	P=0.276N
POLY 6	P=0.237N	P=0.502N	P=0.238N	P=0.231N	P=0.274N
RAO-SCOTT	P=0.321N	P=0.565N	P=0.353N	P=0.351N	P=0.367N
LITTER C-A/FISHERS	P=0.226N	P=0.500N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Ovary					
Schwannoma Malignant					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	2/42.55	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	4.7%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	---	477	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.389N	P=0.236	(e)	(e)	(e)
POLY 1.5	P=0.391N	P=0.236	(e)	(e)	(e)
POLY 6	P=0.386N	P=0.240	(e)	(e)	(e)
RAO-SCOTT	P=0.489N	P=0.385	(e)	(e)	(e)
LITTER C-A/FISHERS	P=0.378N	P=0.245	(e)	(e)	(e)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas Adenoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/48 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/42.41	0/41.33	0/42.30	2/43.62	1/36.29
POLY-3 PERCENT (g)	0%	0%	0%	4.6%	2.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	1/34 (3%)	1/27 (4%)
FIRST INCIDENCE	---	---	---	545	732 (T)
STATISTICAL TESTS					
POLY 3	P=0.216	(e)	(e)	P=0.243	P=0.469
POLY 1.5	P=0.215	(e)	(e)	P=0.241	P=0.469
POLY 6	P=0.214	(e)	(e)	P=0.248	P=0.468
RAO-SCOTT	P=0.307	(e)	(e)	P=0.366	P=0.561
LITTER C-A/FISHERS	P=0.269	(e)	(e)	P=0.245	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas Carcinoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.41	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas					
Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/48 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	2/25 (8%)	1/25 (4%)
POLY-3 RATE (c)	0/42.41	0/41.33	0/42.30	2/43.62	1/36.29
POLY-3 PERCENT (g)	0%	0%	0%	4.6%	2.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	1/34 (3%)	1/27 (4%)
FIRST INCIDENCE	---	---	---	545	732 (T)
STATISTICAL TESTS					
POLY 3	P=0.216	(e)	(e)	P=0.243	P=0.469
POLY 1.5	P=0.215	(e)	(e)	P=0.241	P=0.469
POLY 6	P=0.214	(e)	(e)	P=0.248	P=0.468
RAO-SCOTT	P=0.307	(e)	(e)	P=0.366	P=0.561
LITTER C-A/FISHERS	P=0.269	(e)	(e)	P=0.245	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma					
TUMOR RATES					
OVERALL (a)	15/49 (31%)	9/50 (18%)	13/49 (27%)	10/49 (20%)	1/49 (2%)
LITTERS (b)	11/25 (44%)	7/25 (28%)	12/25 (48%)	7/25 (28%)	1/25 (4%)
POLY-3 RATE (c)	15/43.46	9/41.72	13/43.03	10/42.69	1/36.35
POLY-3 PERCENT (g)	34.5%	21.6%	30.2%	23.4%	2.8%
TERMINAL (d)	12/31 (39%)	7/32 (22%)	10/34 (29%)	7/33 (21%)	0/27 (0%)
FIRST INCIDENCE	588	659	581	639	718
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.136N	P=0.421N	P=0.183N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.126N	P=0.421N	P=0.186N	P<0.001N**
POLY 6	P<0.001N**	P=0.143N	P=0.417N	P=0.178N	P<0.001N**
RAO-SCOTT	P=0.003N**	P=0.180N	P=0.445N	P=0.228N	P=0.002N**
LITTER C-A/FISHERS	P<0.001N**	P=0.189N	P=0.500	P=0.189N	P<0.001N**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	16/49 (33%)	10/50 (20%)	13/49 (27%)	10/49 (20%)	1/49 (2%)
LITTERS (b)	12/25 (48%)	7/25 (28%)	12/25 (48%)	7/25 (28%)	1/25 (4%)
POLY-3 RATE (c)	16/43.46	10/41.85	13/43.03	10/42.69	1/36.35
POLY-3 PERCENT (g)	36.8%	23.9%	30.2%	23.4%	2.8%
TERMINAL (d)	13/31 (42%)	7/32 (22%)	10/34 (29%)	7/33 (21%)	0/27 (0%)
FIRST INCIDENCE	588	659	581	639	718
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.142N	P=0.335N	P=0.129N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.132N	P=0.337N	P=0.132N	P<0.001N**
POLY 6	P<0.001N**	P=0.147N	P=0.330N	P=0.124N	P<0.001N**
RAO-SCOTT	P=0.002N**	P=0.188N	P=0.371N	P=0.176N	P=0.002N**
LITTER C-A/FISHERS	P<0.001N**	P=0.122N	P=0.611	P=0.122N	P<0.001N**

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Salivary Glands					
Sarcoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/46 (0%)	1/45 (2%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/24 (4%)
POLY-3 RATE (c)	0/42.41	0/41.33	0/42.30	0/40.32	1/35.67
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/33 (0%)	0/27 (0%)
FIRST INCIDENCE	---	---	---	---	616
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Salivary Glands					
Schwannoma Malignant					
<hr/>					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/46 (0%)	0/45 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/24 (0%)
POLY-3 RATE (c)	0/42.41	0/41.33	0/42.30	0/40.32	0/35.27
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/33 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	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)	1/42.67	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	724	---	---	---	---
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibroma					
TUMOR 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)	0/42.64	1/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	---	732 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/42.66	1/41.33	0/42.30	0/43.04	1/36.56
POLY-3 PERCENT (g)	2.3%	2.4%	0%	0%	2.7%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	726	732 (T)	---	---	659
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/42.66	1/41.33	0/42.30	0/43.04	1/36.56
POLY-3 PERCENT (g)	2.3%	2.4%	0%	0%	2.7%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	726	732 (T)	---	---	659
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibrosarcoma					
TUMOR 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)	1/42.66	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	726	---	---	---	---
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/42.66	0/41.33	0/42.30	0/43.04	1/36.56
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	2.7%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	726	---	---	---	659
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Schwannoma Malignant					
TUMOR 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)	1/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	2.4%	0%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	732 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma					
TUMOR 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)	1/42.67	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	724	---	---	---	---
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: C-Cell Adenoma					
TUMOR RATES					
OVERALL (a)	8/49 (16%)	8/50 (16%)	9/50 (18%)	8/47 (17%)	7/48 (15%)
LITTERS (b)	7/25 (28%)	8/25 (32%)	9/25 (36%)	7/25 (28%)	6/25 (24%)
POLY-3 RATE (c)	8/42.98	8/41.45	9/42.72	8/40.84	7/36.33
POLY-3 PERCENT (g)	18.6%	19.3%	21.1%	19.6%	19.3%
TERMINAL (d)	4/31 (13%)	7/32 (22%)	7/34 (21%)	7/33 (21%)	6/27 (22%)
FIRST INCIDENCE	634	701	651	707	620
STATISTICAL TESTS					
POLY 3	P=0.555N	P=0.578	P=0.494	P=0.565	P=0.584
POLY 1.5	P=0.559	P=0.592	P=0.501	P=0.560	P=0.581
POLY 6	P=0.551N	P=0.570	P=0.491	P=0.577	P=0.584
RAO-SCOTT	P=0.544N	P=0.567	P=0.488	P=0.557	P=0.568
LITTER C-A/FISHERS	P=0.301N	P=0.500	P=0.381	P=0.623	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: C-Cell Carcinoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/50 (2%)	0/47 (0%)	1/48 (2%)
LITTERS (b)	0/25 (0%)	1/25 (4%)	1/25 (4%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	0/42.41	1/41.33	1/42.30	0/40.74	1/36.12
POLY-3 PERCENT (g)	0%	2.4%	2.4%	0%	2.8%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	1/34 (3%)	0/33 (0%)	0/27 (0%)
FIRST INCIDENCE	---	732 (T)	732 (T)	---	685
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: C-Cell Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	8/49 (16%)	9/50 (18%)	10/50 (20%)	8/47 (17%)	8/48 (17%)
LITTERS (b)	7/25 (28%)	9/25 (36%)	10/25 (40%)	7/25 (28%)	7/25 (28%)
POLY-3 RATE (c)	8/42.98	9/41.45	10/42.72	8/40.84	8/36.51
POLY-3 PERCENT (g)	18.6%	21.7%	23.4%	19.6%	21.9%
TERMINAL (d)	4/31 (13%)	8/32 (25%)	8/34 (24%)	7/33 (21%)	6/27 (22%)
FIRST INCIDENCE	634	701	651	707	620
STATISTICAL TESTS					
POLY 3	P=0.514	P=0.467	P=0.390	P=0.565	P=0.467
POLY 1.5	P=0.500	P=0.483	P=0.397	P=0.560	P=0.462
POLY 6	P=0.524	P=0.457	P=0.386	P=0.577	P=0.469
RAO-SCOTT	P=0.504	P=0.457	P=0.384	P=0.555	P=0.451
LITTER C-A/FISHERS	P=0.355N	P=0.381	P=0.276	P=0.623	P=0.623

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: Follicular Cell Adenoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)	2/48 (4%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	1/25 (4%)	2/25 (8%)
POLY-3 RATE (c)	0/42.41	0/41.33	0/42.30	1/40.74	2/35.94
POLY-3 PERCENT (g)	0%	0%	0%	2.5%	5.6%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	1/33 (3%)	2/27 (7%)
FIRST INCIDENCE	---	---	---	732 (T)	732 (T)
STATISTICAL TESTS					
POLY 3	P=0.032*	(e)	(e)	P=0.492	P=0.202
POLY 1.5	P=0.031*	(e)	(e)	P=0.490	P=0.201
POLY 6	P=0.032*	(e)	(e)	P=0.496	P=0.202
RAO-SCOTT	P=0.091	(e)	(e)	P=0.635	P=0.326
LITTER C-A/FISHERS	P=0.043*	(e)	(e)	P=0.500	P=0.245

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Adenocarcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	3/50 (6%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	1/25 (4%)	3/25 (12%)	6/25 (24%)
POLY-3 RATE (c)	3/42.95	0/41.33	1/42.60	3/43.04	6/36.56
POLY-3 PERCENT (g)	7%	0%	2.4%	7%	16.4%
TERMINAL (d)	2/31 (7%)	0/32 (0%)	0/34 (0%)	3/34 (9%)	3/27 (11%)
FIRST INCIDENCE	645	---	648	732 (T)	685
STATISTICAL TESTS					
POLY 3	P=0.007**	P=0.125N	P=0.308N	P=0.662N	P=0.168
POLY 1.5	P=0.006**	P=0.124N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.007**	P=0.126N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.008**	P=0.147N	P=0.325N	P=0.653N	P=0.182
LITTER C-A/FISHERS	P=0.010**	P=0.117N	P=0.305N	P=0.666	P=0.232

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Adenocarcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	6/25 (24%)
POLY-3 RATE (c)	3/42.95	1/41.33	1/42.60	3/43.04	6/36.56
POLY-3 PERCENT (g)	7%	2.4%	2.4%	7%	16.4%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	0/34 (0%)	3/34 (9%)	3/27 (11%)
FIRST INCIDENCE	645	732 (T)	648	732 (T)	685
STATISTICAL TESTS					
POLY 3	P=0.014*	P=0.319N	P=0.308N	P=0.662N	P=0.168
POLY 1.5	P=0.013*	P=0.315N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.014*	P=0.320N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.014*	P=0.322N	P=0.314N	P=0.650N	P=0.174
LITTER C-A/FISHERS	P=0.021*	P=0.305N	P=0.305N	P=0.666	P=0.232

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Adenocarcinoma, Adenoma, Sq Cell Carcinoma, or Sq Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	7/50 (14%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	7/25 (28%)
POLY-3 RATE (c)	3/42.95	1/41.33	1/42.60	3/43.04	7/36.89
POLY-3 PERCENT (g)	7%	2.4%	2.4%	7%	19%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	0/34 (0%)	3/34 (9%)	3/27 (11%)
FIRST INCIDENCE	645	732 (T)	648	732 (T)	642
STATISTICAL TESTS					
POLY 3	P=0.004**	P=0.319N	P=0.308N	P=0.662N	P=0.101
POLY 1.5	P=0.004**	P=0.315N	P=0.308N	P=0.660	P=0.099
POLY 6	P=0.004**	P=0.320N	P=0.306N	P=0.657N	P=0.102
RAO-SCOTT	P=0.005**	P=0.325N	P=0.317N	P=0.651N	P=0.112
LITTER C-A/FISHERS	P=0.006**	P=0.305N	P=0.305N	P=0.666	P=0.145

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/50 (16%)	5/50 (10%)	2/50 (4%)	7/50 (14%)	9/50 (18%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	2/25 (8%)	7/25 (28%)	8/25 (32%)
POLY-3 RATE (c)	8/42.86	5/42.24	2/42.30	7/43.04	9/37.66
POLY-3 PERCENT (g)	18.7%	11.8%	4.7%	16.3%	23.9%
TERMINAL (d)	5/31 (16%)	3/32 (9%)	2/34 (6%)	7/34 (21%)	6/27 (22%)
FIRST INCIDENCE	689	526	732 (T)	732 (T)	488
STATISTICAL TESTS					
POLY 3	P=0.075	P=0.283N	P=0.046N*	P=0.496N	P=0.382
POLY 1.5	P=0.070	P=0.284N	P=0.046N*	P=0.503N	P=0.368
POLY 6	P=0.078	P=0.275N	P=0.045N*	P=0.486N	P=0.396
RAO-SCOTT	P=0.085	P=0.303N	P=0.066N	P=0.500N	P=0.388
LITTER C-A/FISHERS	P=0.152	P=0.371N	P=0.069N	P=0.623	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Polyp Stromal (includes multiple)					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/50 (16%)	5/50 (10%)	2/50 (4%)	7/50 (14%)	8/50 (16%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	2/25 (8%)	7/25 (28%)	8/25 (32%)
POLY-3 RATE (c)	8/42.86	5/42.24	2/42.30	7/43.04	8/37.66
POLY-3 PERCENT (g)	18.7%	11.8%	4.7%	16.3%	21.3%
TERMINAL (d)	5/31 (16%)	3/32 (9%)	2/34 (6%)	7/34 (21%)	5/27 (19%)
FIRST INCIDENCE	689	526	732 (T)	732 (T)	488
STATISTICAL TESTS					
POLY 3	P=0.142	P=0.283N	P=0.046N*	P=0.496N	P=0.496
POLY 1.5	P=0.135	P=0.284N	P=0.046N*	P=0.503N	P=0.481
POLY 6	P=0.147	P=0.275N	P=0.045N*	P=0.486N	P=0.511
RAO-SCOTT	P=0.142	P=0.290N	P=0.057N	P=0.493N	P=0.486
LITTER C-A/FISHERS	P=0.152	P=0.371N	P=0.069N	P=0.623	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Adenocarcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	3/50 (6%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	0/25 (0%)	1/25 (4%)	3/25 (12%)	6/25 (24%)
POLY-3 RATE (c)	3/42.95	0/41.33	1/42.60	3/43.04	6/36.56
POLY-3 PERCENT (g)	7%	0%	2.4%	7%	16.4%
TERMINAL (d)	2/31 (7%)	0/32 (0%)	0/34 (0%)	3/34 (9%)	3/27 (11%)
FIRST INCIDENCE	645	---	648	732 (T)	685
STATISTICAL TESTS					
POLY 3	P=0.007**	P=0.125N	P=0.308N	P=0.662N	P=0.168
POLY 1.5	P=0.006**	P=0.124N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.007**	P=0.126N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.008**	P=0.147N	P=0.325N	P=0.653N	P=0.182
LITTER C-A/FISHERS	P=0.010**	P=0.117N	P=0.305N	P=0.666	P=0.232

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Adenocarcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	6/50 (12%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	6/25 (24%)
POLY-3 RATE (c)	3/42.95	1/41.33	1/42.60	3/43.04	6/36.56
POLY-3 PERCENT (g)	7%	2.4%	2.4%	7%	16.4%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	0/34 (0%)	3/34 (9%)	3/27 (11%)
FIRST INCIDENCE	645	732 (T)	648	732 (T)	685
STATISTICAL TESTS					
POLY 3	P=0.014*	P=0.319N	P=0.308N	P=0.662N	P=0.168
POLY 1.5	P=0.013*	P=0.315N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.014*	P=0.320N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.014*	P=0.322N	P=0.314N	P=0.650N	P=0.174
LITTER C-A/FISHERS	P=0.021*	P=0.305N	P=0.305N	P=0.666	P=0.232

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Adenocarcinoma, Adenoma, Sq Cell Carcinoma, Sq Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	7/50 (14%)
LITTERS (b)	3/25 (12%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	7/25 (28%)
POLY-3 RATE (c)	3/42.95	1/41.33	1/42.60	3/43.04	7/36.89
POLY-3 PERCENT (g)	7%	2.4%	2.4%	7%	19%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	0/34 (0%)	3/34 (9%)	3/27 (11%)
FIRST INCIDENCE	645	732 (T)	648	732 (T)	642
STATISTICAL TESTS					
POLY 3	P=0.004**	P=0.319N	P=0.308N	P=0.662N	P=0.101
POLY 1.5	P=0.004**	P=0.315N	P=0.308N	P=0.660	P=0.099
POLY 6	P=0.004**	P=0.320N	P=0.306N	P=0.657N	P=0.102
RAO-SCOTT	P=0.005**	P=0.325N	P=0.317N	P=0.651N	P=0.112
LITTER C-A/FISHERS	P=0.006**	P=0.305N	P=0.305N	P=0.666	P=0.145

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	9/50 (18%)	7/50 (14%)	2/50 (4%)	7/50 (14%)	9/50 (18%)
LITTERS (b)	8/25 (32%)	7/25 (28%)	2/25 (8%)	7/25 (28%)	8/25 (32%)
POLY-3 RATE (c)	9/42.86	7/42.37	2/42.30	7/43.04	9/37.66
POLY-3 PERCENT (g)	21%	16.5%	4.7%	16.3%	23.9%
TERMINAL (d)	6/31 (19%)	4/32 (13%)	2/34 (6%)	7/34 (21%)	6/27 (22%)
FIRST INCIDENCE	689	526	732 (T)	732 (T)	488
STATISTICAL TESTS					
POLY 3	P=0.159	P=0.401N	P=0.025N*	P=0.387N	P=0.483
POLY 1.5	P=0.151	P=0.402N	P=0.026N*	P=0.395N	P=0.467
POLY 6	P=0.164	P=0.389N	P=0.025N*	P=0.376N	P=0.498
RAO-SCOTT	P=0.161	P=0.407N	P=0.038N*	P=0.396N	P=0.477
LITTER C-A/FISHERS	P=0.289	P=0.500N	P=0.037N*	P=0.500N	P=0.619

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Polyp Stromal (includes multiple)					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/50 (16%)	5/50 (10%)	2/50 (4%)	7/50 (14%)	8/50 (16%)
LITTERS (b)	7/25 (28%)	5/25 (20%)	2/25 (8%)	7/25 (28%)	8/25 (32%)
POLY-3 RATE (c)	8/42.86	5/42.24	2/42.30	7/43.04	8/37.66
POLY-3 PERCENT (g)	18.7%	11.8%	4.7%	16.3%	21.3%
TERMINAL (d)	5/31 (16%)	3/32 (9%)	2/34 (6%)	7/34 (21%)	5/27 (19%)
FIRST INCIDENCE	689	526	732 (T)	732 (T)	488
STATISTICAL TESTS					
POLY 3	P=0.142	P=0.283N	P=0.046N*	P=0.496N	P=0.496
POLY 1.5	P=0.135	P=0.284N	P=0.046N*	P=0.503N	P=0.481
POLY 6	P=0.147	P=0.275N	P=0.045N*	P=0.486N	P=0.511
RAO-SCOTT	P=0.142	P=0.290N	P=0.057N	P=0.493N	P=0.486
LITTER C-A/FISHERS	P=0.152	P=0.371N	P=0.069N	P=0.623	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
POLY-3 RATE (c)	1/42.64	2/41.45	0/42.30	0/43.04	1/36.29
POLY-3 PERCENT (g)	2.4%	4.8%	0%	0%	2.8%
TERMINAL (d)	1/31 (3%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	1/27 (4%)
FIRST INCIDENCE	732 (T)	701	---	---	732 (T)
STATISTICAL TESTS					
POLY 3	P=0.657N	P=0.490	P=0.502N	P=0.498N	P=0.724
POLY 1.5	P=0.657N	P=0.492	P=0.502N	P=0.500N	P=0.722
POLY 6	P=0.656N	P=0.492	P=0.501N	P=0.495N	P=0.724
RAO-SCOTT	P=0.663N	P=0.532	P=0.573N	P=0.574N	P=0.717
LITTER C-A/FISHERS	P=0.642N	P=0.500	P=0.500N	P=0.500N	P=0.755

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus, Cervix Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	1/42.64	2/41.45	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	2.4%	4.8%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	732 (T)	701	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.252N	P=0.490	P=0.502N	P=0.498N	P=0.532N
POLY 1.5	P=0.253N	P=0.492	P=0.502N	P=0.500N	P=0.533N
POLY 6	P=0.251N	P=0.492	P=0.501N	P=0.495N	P=0.532N
RAO-SCOTT	P=0.331N	P=0.555	P=0.612N	P=0.613N	P=0.602N
LITTER C-A/FISHERS	P=0.241N	P=0.500	P=0.500N	P=0.500N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Hemangiosarcoma					
TUMOR 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)	1/43.04	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	616	---	---	---	---
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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Hemangiosarcoma or Hemangioma					
TUMOR 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)	2/43.04	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	4.7%	0%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (0%)
FIRST INCIDENCE	616	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.328N	P=0.246N	P=0.241N	P=0.237N	P=0.277N
POLY 1.5	P=0.331N	P=0.244N	P=0.240N	P=0.239N	P=0.277N
POLY 6	P=0.326N	P=0.247N	P=0.241N	P=0.234N	P=0.278N
RAO-SCOTT	P=0.437N	P=0.387N	P=0.386N	P=0.385N	P=0.392N
LITTER C-A/FISHERS	P=0.335N	P=0.245N	P=0.245N	P=0.245N	P=0.245N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Histiocytic Sarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/25 (4%)	1/25 (4%)	1/25 (4%)	1/25 (4%)	0/25 (0%)
POLY-3 RATE (c)	1/42.65	1/41.41	1/42.86	1/43.04	0/36.29
POLY-3 PERCENT (g)	2.3%	2.4%	2.3%	2.3%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	1/34 (3%)	0/27 (0%)
FIRST INCIDENCE	728	713	557	732 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant Schwannoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	5/50 (10%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	3/25 (12%)	4/25 (16%)	2/25 (8%)	0/25 (0%)	2/25 (8%)
POLY-3 RATE (c)	3/43.02	5/43.61	2/42.63	0/43.04	2/36.29
POLY-3 PERCENT (g)	7%	11.5%	4.7%	0%	5.5%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	1/34 (3%)	0/34 (0%)	2/27 (7%)
FIRST INCIDENCE	625	288	640	---	732 (T)
STATISTICAL TESTS					
POLY 3	P=0.322N	P=0.363	P=0.504N	P=0.118N	P=0.577N
POLY 1.5	P=0.323N	P=0.360	P=0.504N	P=0.120N	P=0.577N
POLY 6	P=0.322N	P=0.371	P=0.503N	P=0.116N	P=0.580N
RAO-SCOTT	P=0.370N	P=0.404	P=0.530N	P=0.178N	P=0.577N
LITTER C-A/FISHERS	P=0.343N	P=0.500	P=0.500N	P=0.117N	P=0.500N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Mesothelioma: Benign, Malignant, NOS					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Date Report Requested: 02/10/2020

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Mesothelioma: Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
POLY-3 RATE (c)	0/42.64	0/41.33	0/42.30	0/43.04	0/36.29
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/34 (0%)	0/34 (0%)	0/27 (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: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	41/50 (82%)	35/50 (70%)	40/50 (80%)	40/50 (80%)	25/50 (50%)
LITTERS (b)	24/25 (96%)	22/25 (88%)	25/25 (100%)	23/25 (92%)	19/25 (76%)
POLY-3 RATE (c)	41/46.51	35/45.54	40/46.69	40/47.38	25/39.43
POLY-3 PERCENT (g)	88.2%	76.9%	85.7%	84.4%	63.4%
TERMINAL (d)	28/31 (90%)	24/32 (75%)	29/34 (85%)	28/34 (82%)	16/27 (59%)
FIRST INCIDENCE	368	415	496	359	488
STATISTICAL TESTS					
POLY 3	P=0.005N**	P=0.108N	P=0.480N	P=0.406N	P=0.004N**
POLY 1.5	P=0.008N**	P=0.117N	P=0.510N	P=0.479N	P=0.007N**
POLY 6	P=0.004N**	P=0.091N	P=0.425N	P=0.303N	P=0.003N**
RAO-SCOTT	P=0.008N**	P=0.147N	P=0.493N	P=0.428N	P=0.012N*
LITTER C-A/FISHERS	P=0.009N**	P=0.305N	P=0.500	P=0.500N	P=0.049N*

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 16:27:29

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	14/50 (28%)	17/50 (34%)	12/50 (24%)	5/50 (10%)	17/50 (34%)
LITTERS (b)	13/25 (52%)	13/25 (52%)	12/25 (48%)	5/25 (20%)	14/25 (56%)
POLY-3 RATE (c)	14/44.36	17/44.53	12/46.02	5/43.04	17/38.59
POLY-3 PERCENT (g)	31.6%	38.2%	26.1%	11.6%	44.1%
TERMINAL (d)	7/31 (23%)	10/32 (31%)	6/34 (18%)	5/34 (15%)	9/27 (33%)
FIRST INCIDENCE	560	288	284	732 (T)	515
STATISTICAL TESTS					
POLY 3	P=0.165	P=0.332	P=0.366N	P=0.020N*	P=0.171
POLY 1.5	P=0.162	P=0.332	P=0.379N	P=0.020N*	P=0.162
POLY 6	P=0.169	P=0.335	P=0.358N	P=0.021N*	P=0.182
RAO-SCOTT	P=0.142	P=0.334	P=0.367N	P=0.026N*	P=0.174
LITTER C-A/FISHERS	P=0.416	P=0.611	P=0.500N	P=0.019N*	P=0.500

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant and Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	44/50 (88%)	42/50 (84%)	46/50 (92%)	42/50 (84%)	35/50 (70%)
LITTERS (b)	25/25 (100%)	23/25 (92%)	25/25 (100%)	23/25 (92%)	22/25 (88%)
POLY-3 RATE (c)	44/47.85	42/48.50	46/49.42	42/47.38	35/41.08
POLY-3 PERCENT (g)	92%	86.6%	93.1%	88.6%	85.2%
TERMINAL (d)	28/31 (90%)	26/32 (81%)	31/34 (91%)	30/34 (88%)	21/27 (78%)
FIRST INCIDENCE	368	288	284	359	488
STATISTICAL TESTS					
POLY 3	P=0.234N	P=0.295N	P=0.572	P=0.417N	P=0.247N
POLY 1.5	P=0.264N	P=0.327N	P=0.499	P=0.432N	P=0.295N
POLY 6	P=0.200N	P=0.269N	P=0.624	P=0.392N	P=0.203N
RAO-SCOTT	P=0.269N	P=0.357N	P=0.600	P=0.464N	P=0.299N
LITTER C-A/FISHERS	P=0.086N	P=0.245N	P=1.000	P=0.245N	P=0.117N

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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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.
- (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 ***