

**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:** 08/26/2021  
**Time Report Requested:** 14:02:13  
**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  
Uterus (excluding Uterus, Cervix)  
Uterus (including Uterus, Cervix)  
Uterus, Cervix

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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	Carcinoma or Adenoma
Uterus (excluding Uterus, Cervix)	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)
Uterus (including Uterus, Cervix)	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)
All Organs	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
<b>Adrenal Cortex</b>					
<b>Adenoma</b>					
<b>TUMOR RATES</b>					
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	---
<b>STATISTICAL TESTS</b>					
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
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Benign</b>					
<b>TUMOR RATES</b>					
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)	---	---
<b>STATISTICAL TESTS</b>					
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
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Malignant</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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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TERMINAL SACRIFICE AT 105 WEEKS**

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



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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
<b>Brain</b>					
<b>Glioma Malignant</b>					
<b>TUMOR RATES</b>					
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)	---	---
<b>STATISTICAL TESTS</b>					
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
<b>Brain</b>					
Oligodendroglioma, Glioma, or Astrocytoma					
<b>TUMOR RATES</b>					
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)	---	---
<b>STATISTICAL TESTS</b>					
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
<b>Heart</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
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)	---
<b>STATISTICAL TESTS</b>					
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
<b>Intestine Small: Jejunum Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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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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
<b>Intestine Small: Site Unspecified Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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
<b>Islets, Pancreatic Adenoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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

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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Kidney: Renal Tubule Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Liver</b>					
<b>Hepatocellular Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Liver</b>					
<b>Hepatocellular Carcinoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Liver</b>					
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>					
<b>TUMOR RATES</b>					
<b>OVERALL (a)</b>	1/50 (2%)	1/49 (2%)	0/50 (0%)	3/50 (6%)	11/49 (22%)
<b>LITTERS (b)</b>	1/25 (4%)	1/25 (4%)	0/25 (0%)	3/25 (12%)	9/25 (36%)
<b>POLY-3 RATE (c)</b>	1/38.62	1/42.09	0/47.18	3/44.66	11/35.95
<b>POLY-3 PERCENT (g)</b>	2.6%	2.4%	0%	6.7%	30.6%
<b>TERMINAL (d)</b>	0/25 (0%)	1/33 (3%)	0/40 (0%)	3/35 (9%)	8/29 (28%)
<b>FIRST INCIDENCE</b>	657	729 (T)	---	729 (T)	295
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P<0.001**	P=0.741N	P=0.460N	P=0.359	P<0.001**
<b>POLY 1.5</b>	P<0.001**	P=0.751N	P=0.475N	P=0.338	P<0.001**
<b>POLY 6</b>	P<0.001**	P=0.730N	P=0.444N	P=0.382	P=0.002**
<b>RAO-SCOTT</b>	P<0.001**	P=0.750N	P=0.565N	P=0.429	P=0.009**
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Liver</b>					
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland Fibroadenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pancreas Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pancreas Carcinoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pancreas Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Salivary Glands</b>					
<b>Sarcoma</b>					
<b>TUMOR RATES</b>					
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)	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Salivary Glands</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
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)	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
<b>TUMOR RATES</b>	#	#	#	#	#
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Fibroma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Fibrosarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	3/50 (6%)	3/49 (6%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
<b>LITTERS (b)</b>	3/25 (12%)	3/25 (12%)	1/25 (4%)	2/25 (8%)	1/25 (4%)
<b>POLY-3 RATE (c)</b>	3/38.56	3/42.09	1/47.18	2/44.87	1/34.50
<b>POLY-3 PERCENT (g)</b>	7.8%	7.1%	2.1%	4.5%	2.9%
<b>TERMINAL (d)</b>	2/25 (8%)	3/33 (9%)	1/40 (3%)	1/35 (3%)	1/29 (3%)
<b>FIRST INCIDENCE</b>	673	729 (T)	729 (T)	674	729 (T)
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.342N	P=0.622N	P=0.238N	P=0.431N	P=0.345N
<b>POLY 1.5</b>	P=0.340N	P=0.641N	P=0.262N	P=0.458N	P=0.361N
<b>POLY 6</b>	P=0.337N	P=0.598N	P=0.213N	P=0.402N	P=0.316N
<b>RAO-SCOTT</b>	P=0.323N	P=0.607N	P=0.253N	P=0.432N	P=0.332N
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	2/50 (4%)	3/49 (6%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
<b>LITTERS (b)</b>	2/25 (8%)	3/25 (12%)	1/25 (4%)	1/25 (4%)	1/25 (4%)
<b>POLY-3 RATE (c)</b>	2/38.56	3/42.09	1/47.18	1/44.66	1/34.50
<b>POLY-3 PERCENT (g)</b>	5.2%	7.1%	2.1%	2.2%	2.9%
<b>TERMINAL (d)</b>	1/25 (4%)	3/33 (9%)	1/40 (3%)	1/35 (3%)	1/29 (3%)
<b>FIRST INCIDENCE</b>	673	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.389N	P=0.540	P=0.430N	P=0.449N	P=0.539N
<b>POLY 1.5</b>	P=0.389N	P=0.521	P=0.456N	P=0.468N	P=0.553N
<b>POLY 6</b>	P=0.384N	P=0.562	P=0.403N	P=0.428N	P=0.512N
<b>RAO-SCOTT</b>	P=0.384N	P=0.532	P=0.436N	P=0.450N	P=0.508N
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Testis</b>					
<b>Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Thyroid Gland: C-Cell Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Thyroid Gland: C-Cell Carcinoma</b>					
<b>TUMOR RATES</b>					
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)	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

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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
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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

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
<b>Thyroid Gland: Follicular Cell Adenoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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

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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
<b>All Organs</b>					
<b>Hemangiosarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	0/50 (0%)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
<b>LITTERS (b)</b>	0/25 (0%)	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)
<b>POLY-3 RATE (c)</b>	0/38.35	0/42.09	2/47.32	0/44.66	0/34.50
<b>POLY-3 PERCENT (g)</b>	0%	0%	4.2%	0%	0%
<b>TERMINAL (d)</b>	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
<b>FIRST INCIDENCE</b>	---	---	694	---	---
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.473N	(e)	P=0.287	(e)	(e)
<b>POLY 1.5</b>	P=0.487N	(e)	P=0.268	(e)	(e)
<b>POLY 6</b>	P=0.456N	(e)	P=0.310	(e)	(e)
<b>RAO-SCOTT</b>	P=0.541N	(e)	P=0.407	(e)	(e)
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Hemangiosarcoma or Hemangioma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	0/50 (0%)	0/49 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
<b>LITTERS (b)</b>	0/25 (0%)	0/25 (0%)	3/25 (12%)	0/25 (0%)	0/25 (0%)
<b>POLY-3 RATE (c)</b>	0/38.35	0/42.09	3/47.52	0/44.66	0/34.50
<b>POLY-3 PERCENT (g)</b>	0%	0%	6.3%	0%	0%
<b>TERMINAL (d)</b>	0/25 (0%)	0/33 (0%)	1/40 (3%)	0/35 (0%)	0/29 (0%)
<b>FIRST INCIDENCE</b>	---	---	675	---	---
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.366N	(e)	P=0.162	(e)	(e)
<b>POLY 1.5</b>	P=0.382N	(e)	P=0.145	(e)	(e)
<b>POLY 6</b>	P=0.345N	(e)	P=0.185	(e)	(e)
<b>RAO-SCOTT</b>	P=0.447N	(e)	P=0.269	(e)	(e)
<b>LITTER C-A/FISHERS</b>	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

CAS Number: 117-81-7

Date Report Requested: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Histiocytic Sarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	0/50 (0%)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
<b>LITTERS (b)</b>	0/25 (0%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	0/25 (0%)
<b>POLY-3 RATE (c)</b>	0/38.35	2/42.44	0/47.18	0/44.66	0/34.50
<b>POLY-3 PERCENT (g)</b>	0%	4.7%	0%	0%	0%
<b>TERMINAL (d)</b>	0/25 (0%)	1/33 (3%)	0/40 (0%)	0/35 (0%)	0/29 (0%)
<b>FIRST INCIDENCE</b>	---	631	---	---	---
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.372N	P=0.260	(e)	(e)	(e)
<b>POLY 1.5</b>	P=0.376N	P=0.249	(e)	(e)	(e)
<b>POLY 6</b>	P=0.367N	P=0.275	(e)	(e)	(e)
<b>RAO-SCOTT</b>	P=0.470N	P=0.398	(e)	(e)	(e)
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Malignant Schwannoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Mesothelioma: Benign, Malignant, NOS</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Mesothelioma: Malignant</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	28/50 (56%)	31/49 (63%)	32/50 (64%)	44/50 (88%)	30/50 (60%)
<b>LITTERS (b)</b>	19/25 (76%)	20/25 (80%)	22/25 (88%)	25/25 (100%)	19/25 (76%)
<b>POLY-3 RATE (c)</b>	28/41.37	31/44.34	32/48.06	44/47.26	30/37.66
<b>POLY-3 PERCENT (g)</b>	67.7%	69.9%	66.6%	93.1%	79.7%
<b>TERMINAL (d)</b>	19/25 (76%)	24/33 (73%)	29/40 (73%)	34/35 (97%)	23/29 (79%)
<b>FIRST INCIDENCE</b>	476	486	557	534	295
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.052	P=0.505	P=0.548N	P<0.001**	P=0.156
<b>POLY 1.5</b>	P=0.048*	P=0.416	P=0.496	P<0.001**	P=0.113
<b>POLY 6</b>	P=0.082	P=0.584N	P=0.399N	P=0.002**	P=0.277
<b>RAO-SCOTT</b>	P=0.086	P=0.504	P=0.544N	P=0.005**	P=0.183
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Malignant Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	15/50 (30%)	14/49 (29%)	16/50 (32%)	8/50 (16%)	15/50 (30%)
<b>LITTERS (b)</b>	12/25 (48%)	12/25 (48%)	12/25 (48%)	8/25 (32%)	11/25 (44%)
<b>POLY-3 RATE (c)</b>	15/43.46	14/44.92	16/48.59	8/45.57	15/37.21
<b>POLY-3 PERCENT (g)</b>	34.5%	31.2%	32.9%	17.6%	40.3%
<b>TERMINAL (d)</b>	5/25 (20%)	7/33 (21%)	12/40 (30%)	3/35 (9%)	10/29 (35%)
<b>FIRST INCIDENCE</b>	328	545	512	632	295
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.323	P=0.457N	P=0.524N	P=0.054N	P=0.380
<b>POLY 1.5</b>	P=0.324	P=0.487N	P=0.577N	P=0.061N	P=0.356
<b>POLY 6</b>	P=0.342	P=0.415N	P=0.466N	P=0.046N*	P=0.439
<b>RAO-SCOTT</b>	P=0.297	P=0.471N	P=0.533N	P=0.082N	P=0.392
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Malignant and Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	36/50 (72%)	38/49 (78%)	42/50 (84%)	44/50 (88%)	35/50 (70%)
<b>LITTERS (b)</b>	21/25 (84%)	24/25 (96%)	24/25 (96%)	25/25 (100%)	21/25 (84%)
<b>POLY-3 RATE (c)</b>	36/45.71	38/46.07	42/49.47	44/47.26	35/38.42
<b>POLY-3 PERCENT (g)</b>	78.8%	82.5%	84.9%	93.1%	91.1%
<b>TERMINAL (d)</b>	19/25 (76%)	27/33 (82%)	35/40 (88%)	34/35 (97%)	26/29 (90%)
<b>FIRST INCIDENCE</b>	328	486	512	534	295
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.070	P=0.422	P=0.297	P=0.030*	P=0.091
<b>POLY 1.5</b>	P=0.087	P=0.381	P=0.217	P=0.030*	P=0.092
<b>POLY 6</b>	P=0.084	P=0.498	P=0.398	P=0.033*	P=0.136
<b>RAO-SCOTT</b>	P=0.094	P=0.439	P=0.327	P=0.060	P=0.120
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

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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
<b>Adrenal Cortex</b>					
<b>Adenoma</b>					
<b>TUMOR RATES</b>					
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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**

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DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Benign</b>					
<hr/>					
<b>TUMOR RATES</b>					
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	---
<hr/>					
<b>STATISTICAL TESTS</b>					
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)

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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: 08/26/2021

Time Report Requested: 14:02:13

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**

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DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Malignant</b>					
<hr/>					
<b>TUMOR RATES</b>					
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	---	---	---	---	---
<hr/>					
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

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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: 08/26/2021

Time Report Requested: 14:02:13

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

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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
<b>Brain</b>					
<b>Glioma Malignant</b>					
<b>TUMOR RATES</b>					
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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

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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
<b>Brain</b>					
Oligodendroglioma, Glioma, or Astrocytoma					
<b>TUMOR RATES</b>					
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
RAO-SCOTT	(n)	(n)	(n)	(n)	(n)
LITTER C-A/FISHERS	(n)	(n)	(n)	(n)	(n)

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**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

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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
<b>Heart</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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
<b>Intestine Small: Jejunum Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---	---
<b>STATISTICAL TESTS</b>					
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

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Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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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
<b>Intestine Small: Site Unspecified Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---	---
<b>STATISTICAL TESTS</b>					
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

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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
<b>Islets, Pancreatic Adenoma</b>					
<b>TUMOR RATES</b>					
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	---	---
<b>STATISTICAL TESTS</b>					
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

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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
<b>Kidney: Renal Tubule Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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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 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
<b>Liver</b>					
<b>Hepatocellular Adenoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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

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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
<b>Liver</b>					
<b>Hepatocellular Carcinoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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**

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Route: DOSED FEED

Species/Strain: RATS/HSD

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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
<b>Liver</b>					
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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**



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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
<b>Liver</b>					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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

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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
<b>Mammary Gland Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland Fibroadenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	28/50 (56%)	26/50 (52%)	26/50 (52%)	27/50 (54%)	10/50 (20%)
<b>LITTERS (b)</b>	20/25 (80%)	17/25 (68%)	20/25 (80%)	20/25 (80%)	9/25 (36%)
<b>POLY-3 RATE (c)</b>	28/45.49	26/45.30	26/45.54	27/46.48	10/38.27
<b>POLY-3 PERCENT (g)</b>	61.6%	57.4%	57.1%	58.1%	26.1%
<b>TERMINAL (d)</b>	20/31 (65%)	17/32 (53%)	17/34 (50%)	18/34 (53%)	5/27 (19%)
<b>FIRST INCIDENCE</b>	368	415	500	359	576
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P<0.001N**	P=0.423N	P=0.412N	P=0.449N	P<0.001N**
<b>POLY 1.5</b>	P<0.001N**	P=0.435N	P=0.428N	P=0.488N	P<0.001N**
<b>POLY 6</b>	P<0.001N**	P=0.388N	P=0.374N	P=0.388N	P<0.001N**
<b>RAO-SCOTT</b>	P<0.001N**	P=0.425N	P=0.414N	P=0.451N	P=0.002N**
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	29/50 (58%)	28/50 (56%)	28/50 (56%)	28/50 (56%)	10/50 (20%)
<b>LITTERS (b)</b>	21/25 (84%)	18/25 (72%)	20/25 (80%)	20/25 (80%)	9/25 (36%)
<b>POLY-3 RATE (c)</b>	29/45.81	28/45.42	28/45.54	28/46.48	10/38.27
<b>POLY-3 PERCENT (g)</b>	63.3%	61.6%	61.5%	60.2%	26.1%
<b>TERMINAL (d)</b>	20/31 (65%)	18/32 (56%)	19/34 (56%)	19/34 (56%)	5/27 (19%)
<b>FIRST INCIDENCE</b>	368	415	500	359	576
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P<0.001N**	P=0.521N	P=0.515N	P=0.464N	P<0.001N**
<b>POLY 1.5</b>	P<0.001N**	P=0.526N	P=0.522N	P=0.496N	P<0.001N**
<b>POLY 6</b>	P<0.001N**	P=0.492N	P=0.490N	P=0.413N	P<0.001N**
<b>RAO-SCOTT</b>	P<0.001N**	P=0.519N	P=0.513N	P=0.466N	P<0.001N**
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Ovary</b>					
<b>Granulosa Cell Tumor: Benign, Malignant, NOS</b>					
<b>TUMOR RATES</b>					
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	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Ovary</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
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	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pancreas Adenoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pancreas Carcinoma</b>					
<b>TUMOR RATES</b>					
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

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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
<b>Pancreas</b>					
<b>Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Salivary Glands</b>					
<b>Sarcoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

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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
<b>Salivary Glands</b>					
<b>Schwannoma Malignant</b>					
<hr/>					
<b>TUMOR RATES</b>					
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/>					
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Fibroma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Fibrosarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b> Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

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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
<b>Skin</b>					
<b>Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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
<b>Skin</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

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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
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Thyroid Gland: C-Cell Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Thyroid Gland: C-Cell Carcinoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
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
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Thyroid Gland: Follicular Cell Adenoma</b>					
<b>TUMOR RATES</b>					
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (excluding Uterus, Cervix)</b>					
<b>Adenocarcinoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	3/50 (6%)	6/48 (13%)
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
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.006**	P=0.125N	P=0.308N	P=0.662N	P=0.167
POLY 1.5	P=0.006**	P=0.124N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.006**	P=0.126N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.009**	P=0.147N	P=0.325N	P=0.653N	P=0.184
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (excluding Uterus, Cervix)</b>					
<b>Adenocarcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	6/48 (13%)
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
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.013*	P=0.319N	P=0.308N	P=0.662N	P=0.167
POLY 1.5	P=0.013*	P=0.315N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.013*	P=0.320N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.015*	P=0.322N	P=0.314N	P=0.650N	P=0.175
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (excluding Uterus, Cervix)</b>					
<b>Adenocarcinoma, Adenoma, Sq Cell Carcinoma, or Sq Cell Papilloma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	7/48 (15%)
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
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.003**	P=0.319N	P=0.308N	P=0.662N	P=0.100
POLY 1.5	P=0.003**	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=0.113
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (excluding Uterus, Cervix)</b>					
<b>Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
<b>OVERALL (a)</b>	8/50 (16%)	5/50 (10%)	2/50 (4%)	7/50 (14%)	9/48 (19%)
<b>LITTERS (b)</b>	7/25 (28%)	5/25 (20%)	2/25 (8%)	7/25 (28%)	8/25 (32%)
<b>POLY-3 RATE (c)</b>	8/42.86	5/42.24	2/42.30	7/43.04	9/37.66
<b>POLY-3 PERCENT (g)</b>	18.7%	11.8%	4.7%	16.3%	23.9%
<b>TERMINAL (d)</b>	5/31 (16%)	3/32 (9%)	2/34 (6%)	7/34 (21%)	6/27 (22%)
<b>FIRST INCIDENCE</b>	689	526	732 (T)	732 (T)	488
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.072	P=0.283N	P=0.046N*	P=0.496N	P=0.382
<b>POLY 1.5</b>	P=0.068	P=0.284N	P=0.046N*	P=0.503N	P=0.368
<b>POLY 6</b>	P=0.075	P=0.275N	P=0.045N*	P=0.486N	P=0.396
<b>RAO-SCOTT</b>	P=0.086	P=0.303N	P=0.066N	P=0.500N	P=0.391
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (excluding Uterus, Cervix)</b>					
<b>Polyp Stromal (includes multiple)</b>					
<b>TUMOR RATES</b>					
<b>OVERALL (a)</b>	8/50 (16%)	5/50 (10%)	2/50 (4%)	7/50 (14%)	8/48 (17%)
<b>LITTERS (b)</b>	7/25 (28%)	5/25 (20%)	2/25 (8%)	7/25 (28%)	8/25 (32%)
<b>POLY-3 RATE (c)</b>	8/42.86	5/42.24	2/42.30	7/43.04	8/37.66
<b>POLY-3 PERCENT (g)</b>	18.7%	11.8%	4.7%	16.3%	21.3%
<b>TERMINAL (d)</b>	5/31 (16%)	3/32 (9%)	2/34 (6%)	7/34 (21%)	5/27 (19%)
<b>FIRST INCIDENCE</b>	689	526	732 (T)	732 (T)	488
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.139	P=0.283N	P=0.046N*	P=0.496N	P=0.496
<b>POLY 1.5</b>	P=0.132	P=0.284N	P=0.046N*	P=0.503N	P=0.481
<b>POLY 6</b>	P=0.144	P=0.275N	P=0.045N*	P=0.486N	P=0.511
<b>RAO-SCOTT</b>	P=0.143	P=0.290N	P=0.057N	P=0.493N	P=0.488
<b>LITTER C-A/FISHERS</b>	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

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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
<b>Uterus (including Uterus, Cervix)</b>					
<b>Adenocarcinoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	3/50 (6%)	6/48 (13%)
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
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.006**	P=0.125N	P=0.308N	P=0.662N	P=0.167
POLY 1.5	P=0.006**	P=0.124N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.006**	P=0.126N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.009**	P=0.147N	P=0.325N	P=0.653N	P=0.184
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (including Uterus, Cervix)</b>					
<b>Adenocarcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	6/48 (13%)
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
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.013*	P=0.319N	P=0.308N	P=0.662N	P=0.167
POLY 1.5	P=0.013*	P=0.315N	P=0.308N	P=0.660	P=0.167
POLY 6	P=0.013*	P=0.320N	P=0.306N	P=0.657N	P=0.167
RAO-SCOTT	P=0.015*	P=0.322N	P=0.314N	P=0.650N	P=0.175
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (including Uterus, Cervix)</b>					
<b>Adenocarcinoma, Adenoma, Sq Cell Carcinoma, Sq Cell Papilloma</b>					
<b>TUMOR RATES</b>					
<b>OVERALL (a)</b>	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	7/48 (15%)
<b>LITTERS (b)</b>	3/25 (12%)	1/25 (4%)	1/25 (4%)	3/25 (12%)	7/25 (28%)
<b>POLY-3 RATE (c)</b>	3/42.95	1/41.33	1/42.60	3/43.04	7/36.89
<b>POLY-3 PERCENT (g)</b>	7%	2.4%	2.4%	7%	19%
<b>TERMINAL (d)</b>	2/31 (7%)	1/32 (3%)	0/34 (0%)	3/34 (9%)	3/27 (11%)
<b>FIRST INCIDENCE</b>	645	732 (T)	648	732 (T)	642
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.003**	P=0.319N	P=0.308N	P=0.662N	P=0.100
<b>POLY 1.5</b>	P=0.003**	P=0.315N	P=0.308N	P=0.660	P=0.099
<b>POLY 6</b>	P=0.004**	P=0.320N	P=0.306N	P=0.657N	P=0.102
<b>RAO-SCOTT</b>	P=0.005**	P=0.325N	P=0.317N	P=0.651N	P=0.113
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (including Uterus, Cervix)</b>					
<b>Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
<b>OVERALL (a)</b>	9/50 (18%)	7/50 (14%)	2/50 (4%)	7/50 (14%)	9/48 (19%)
<b>LITTERS (b)</b>	8/25 (32%)	7/25 (28%)	2/25 (8%)	7/25 (28%)	8/25 (32%)
<b>POLY-3 RATE (c)</b>	9/42.86	7/42.37	2/42.30	7/43.04	9/37.66
<b>POLY-3 PERCENT (g)</b>	21%	16.5%	4.7%	16.3%	23.9%
<b>TERMINAL (d)</b>	6/31 (19%)	4/32 (13%)	2/34 (6%)	7/34 (21%)	6/27 (22%)
<b>FIRST INCIDENCE</b>	689	526	732 (T)	732 (T)	488
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.155	P=0.401N	P=0.025N*	P=0.387N	P=0.483
<b>POLY 1.5</b>	P=0.147	P=0.402N	P=0.026N*	P=0.395N	P=0.467
<b>POLY 6</b>	P=0.160	P=0.389N	P=0.025N*	P=0.376N	P=0.498
<b>RAO-SCOTT</b>	P=0.163	P=0.407N	P=0.038N*	P=0.396N	P=0.479
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (including Uterus, Cervix)</b>					
<b>Polyp Stromal (includes multiple)</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	8/50 (16%)	5/50 (10%)	2/50 (4%)	7/50 (14%)	8/48 (17%)
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
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.139	P=0.283N	P=0.046N*	P=0.496N	P=0.496
POLY 1.5	P=0.132	P=0.284N	P=0.046N*	P=0.503N	P=0.481
POLY 6	P=0.144	P=0.275N	P=0.045N*	P=0.486N	P=0.511
RAO-SCOTT	P=0.143	P=0.290N	P=0.057N	P=0.493N	P=0.488
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>Uterus (including Uterus, Cervix)</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
<b>OVERALL (a)</b>	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/48 (2%)
<b>LITTERS (b)</b>	1/25 (4%)	2/25 (8%)	0/25 (0%)	0/25 (0%)	1/25 (4%)
<b>POLY-3 RATE (c)</b>	1/42.64	2/41.45	0/42.30	0/43.04	1/36.29
<b>POLY-3 PERCENT (g)</b>	2.4%	4.8%	0%	0%	2.8%
<b>TERMINAL (d)</b>	1/31 (3%)	1/32 (3%)	0/34 (0%)	0/34 (0%)	1/27 (4%)
<b>FIRST INCIDENCE</b>	732 (T)	701	---	---	732 (T)
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.666N	P=0.490	P=0.502N	P=0.498N	P=0.724
<b>POLY 1.5</b>	P=0.666N	P=0.492	P=0.502N	P=0.500N	P=0.723
<b>POLY 6</b>	P=0.665N	P=0.492	P=0.501N	P=0.495N	P=0.724
<b>RAO-SCOTT</b>	P=0.670N	P=0.532	P=0.573N	P=0.574N	P=0.722
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021  
 Time Report Requested: 14:02:13  
 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
<b>Uterus, Cervix Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/48 (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	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.256N	P=0.490	P=0.502N	P=0.498N	P=0.532N
POLY 1.5	P=0.256N	P=0.492	P=0.502N	P=0.500N	P=0.533N
POLY 6	P=0.255N	P=0.492	P=0.501N	P=0.495N	P=0.532N
RAO-SCOTT	P=0.340N	P=0.555	P=0.612N	P=0.613N	P=0.611N
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Hemangiosarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Hemangiosarcoma or Hemangioma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---
<b>STATISTICAL TESTS</b>					
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

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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
<b>All Organs</b>					
<b>Histiocytic Sarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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
<b>All Organs</b>					
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)	---
<b>STATISTICAL TESTS</b>					
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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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
<b>All Organs</b>					
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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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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
<b>All Organs</b>					
<b>Malignant Schwannoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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)
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Mesothelioma: Benign, Malignant, NOS</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Mesothelioma: Malignant</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
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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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
<b>All Organs</b>					
<b>Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	41/50 (82%)	35/50 (70%)	40/50 (80%)	40/50 (80%)	25/50 (50%)
<b>LITTERS (b)</b>	24/25 (96%)	22/25 (88%)	25/25 (100%)	23/25 (92%)	19/25 (76%)
<b>POLY-3 RATE (c)</b>	41/46.51	35/45.54	40/46.69	40/47.38	25/39.43
<b>POLY-3 PERCENT (g)</b>	88.2%	76.9%	85.7%	84.4%	63.4%
<b>TERMINAL (d)</b>	28/31 (90%)	24/32 (75%)	29/34 (85%)	28/34 (82%)	16/27 (59%)
<b>FIRST INCIDENCE</b>	368	415	496	359	488
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.005N**	P=0.108N	P=0.480N	P=0.406N	P=0.004N**
<b>POLY 1.5</b>	P=0.008N**	P=0.117N	P=0.510N	P=0.479N	P=0.007N**
<b>POLY 6</b>	P=0.004N**	P=0.091N	P=0.425N	P=0.303N	P=0.003N**
<b>RAO-SCOTT</b>	P=0.008N**	P=0.147N	P=0.493N	P=0.428N	P=0.012N*
<b>LITTER C-A/FISHERS</b>	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: 08/26/2021

Time Report Requested: 14:02:13

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
<b>All Organs</b>					
<b>Malignant Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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

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
<b>All Organs</b>					
<b>Malignant and Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
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
<b>STATISTICAL TESTS</b>					
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**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 08/26/2021

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

Lab: BAT

**LEGEND**

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

\*\*\* END OF REPORT \*\*\*