

Experiment Number: 10188 - 01
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

Custom Report

NTP Study Number: C10188B
Lock Date: 04/01/2015
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
Clitoral/Preputial Gland
Heart
Islets, Pancreatic
Liver
Pancreas
Pituitary Gland
Testis
Thyroid Gland

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

MALE RATS

Organ

Adrenal Medulla

Brain

Liver

Pancreas

Skin

Testis

All Organs

Morphology

Pheochromocytoma Benign

Pheochromocytoma: Benign, Complex, Malignant, NOS

Granular Cell Tumor Benign

Hepatocellular Adenoma

Hepatocellular Carcinoma

Hepatocellular Carcinoma or Hepatocellular Adenoma

Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

Adenoma

Carcinoma

Carcinoma or Adenoma

Lipoma

Adenoma

Benign Tumors

Malignant and Benign Tumors

FEMALE RATS

Organ

Liver

Mammary Gland

Pancreas

Pituitary Gland: Pars Distalis or Unspecified Site

Thyroid Gland: C-Cell

Uterus (excluding Uterus, Cervix)

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

Carcinoma or Adenoma

Adenoma

Adenoma

Carcinoma or Adenoma

Adenocarcinoma

Adenocarcinoma or Adenoma

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

Squamous Cell Papilloma (includes multiple)

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

Uterus (including Uterus, Cervix)

Adenocarcinoma

Adenocarcinoma or Adenoma

Adenocarcinoma, Adenoma, Sq Cell Carcinoma, Sq Cell Papilloma

Squamous Cell Carcinoma or Squamous Cell Papilloma

Squamous Cell Papilloma (includes multiple)

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

Uterus, Cervix

Benign Tumors

All Organs

Malignant Tumors

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Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Cortex					
Adenoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	2/49 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/41.64	2/43.27	2/46.23	1/44.60	1/46.62
POLY-3 PERCENT (g)	2.4%	4.6%	4.3%	2.2%	2.1%
TERMINAL (d)	1/32 (3%)	2/33 (6%)	2/39 (5%)	1/35 (3%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	733 (T)	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.432N	P=0.513	P=0.536	P=0.745N	P=0.735N
POLY 1.5	P=0.441N	P=0.505	P=0.522	P=0.751N	P=0.745N
POLY 6	P=0.420N	P=0.521	P=0.552	P=0.739N	P=0.724N
COCH-ARM / FISHERS	P=0.459N	P=0.492	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.579N	P=0.296	P=0.319	P=0.481N	P=0.469N

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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
Adrenal Medulla					
Pheochromocytoma Benign					
<hr/>					
TUMOR RATES					
OVERALL (a)	4/50 (8%)	8/50 (16%)	4/50 (8%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	4/42.09	8/44.60	4/46.36	3/44.92	1/46.62
POLY-3 PERCENT (g)	9.5%	17.9%	8.6%	6.7%	2.1%
TERMINAL (d)	2/32 (6%)	6/34 (18%)	3/39 (8%)	2/35 (6%)	1/42 (2%)
FIRST INCIDENCE	653	671	701	644	733 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.029N*	P=0.204	P=0.589N	P=0.465N	P=0.149N
POLY 1.5	P=0.032N*	P=0.193	P=0.611N	P=0.478N	P=0.160N
POLY 6	P=0.027N*	P=0.214	P=0.567N	P=0.452N	P=0.139N
COCH-ARM / FISHERS	P=0.038N*	P=0.178	P=0.643N	P=0.500N	P=0.181N
MAX-ISO-POLY-3	P=0.050N*	P=0.133	P=0.446N	P=0.320N	P=0.076N

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Medulla					
Pheochromocytoma Malignant					
<hr/>					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.64	0/44.27	2/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	0%	4.3%	0%	0%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	2/39 (5%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	733 (T)	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	P=0.301N	P=0.488N	P=0.536	P=0.486N	P=0.477N
POLY 1.5	P=0.306N	P=0.493N	P=0.522	P=0.492N	P=0.486N
POLY 6	P=0.294N	P=0.483N	P=0.552	P=0.481N	P=0.468N
COCH-ARM / FISHERS	P=0.315N	P=0.500N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.316N	P=0.158N	P=0.319	P=0.158N	P=0.158N

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Adrenal Medulla					
Pheochromocytoma: Benign, Complex, Malignant, NOS					
TUMOR RATES					
OVERALL (a)	5/50 (10%)	8/50 (16%)	6/50 (12%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	5/42.09	8/44.60	6/46.36	3/44.92	1/46.62
POLY-3 PERCENT (g)	11.9%	17.9%	12.9%	6.7%	2.1%
TERMINAL (d)	3/32 (9%)	6/34 (18%)	5/39 (13%)	2/35 (6%)	1/42 (2%)
FIRST INCIDENCE	653	671	701	644	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.014N*	P=0.313	P=0.567	P=0.321N	P=0.080N
POLY 1.5	P=0.016N*	P=0.298	P=0.541	P=0.334N	P=0.087N
POLY 6	P=0.013N*	P=0.326	P=0.594	P=0.308N	P=0.073N
COCH-ARM / FISHERS	P=0.020N*	P=0.277	P=0.500	P=0.357N	P=0.102N
MAX-ISO-POLY-3	P=0.025N*	P=0.221	P=0.442	P=0.208N	P=0.040N*

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Brain					
Glioma Malignant					
TUMOR RATES					
OVERALL (a)	4/50 (8%)	2/50 (4%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	4/42.94	2/45.23	2/46.23	1/44.60	2/47.43
POLY-3 PERCENT (g)	9.3%	4.4%	4.3%	2.2%	4.2%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	2/39 (5%)	1/35 (3%)	1/42 (2%)
FIRST INCIDENCE	465	257	733 (T)	733 (T)	425
STATISTICAL TESTS					
POLY 3	P=0.406N	P=0.313N	P=0.304N	P=0.167N	P=0.293N
POLY 1.5	P=0.411N	P=0.321N	P=0.317N	P=0.171N	P=0.308N
POLY 6	P=0.398N	P=0.309N	P=0.291N	P=0.164N	P=0.278N
COCH-ARM / FISHERS	P=0.422N	P=0.339N	P=0.339N	P=0.181N	P=0.339N
MAX-ISO-POLY-3	P=0.181N	P=0.187N	P=0.183N	P=0.080N	P=0.178N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Brain					
Granular Cell Tumor Benign					
TUMOR RATES					
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/41.64	0/44.27	1/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	7.2%	0%	2.2%	0%	0%
TERMINAL (d)	3/32 (9%)	0/34 (0%)	1/39 (3%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	733 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.176N	P=0.108N	P=0.269N	P=0.107N	P=0.100N
POLY 1.5	P=0.174N	P=0.112N	P=0.283N	P=0.111N	P=0.107N
POLY 6	P=0.177N	P=0.104N	P=0.254N	P=0.102N	P=0.093N
COCH-ARM / FISHERS	P=0.174N	P=0.121N	P=0.309N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.014N*	P=0.038N*	P=0.141N	P=0.038N*	P=0.038N*

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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
Clitoral/Preputial Gland Squamous Cell Carcinoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.64	2/44.36	0/46.23	0/44.60	1/46.62
POLY-3 PERCENT (g)	0%	4.5%	0%	0%	2.1%
TERMINAL (d)	0/31 (0%)	1/34 (3%)	0/39 (0%)	0/35 (0%)	1/42 (2%)
FIRST INCIDENCE	---	709	---	---	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.613	P=0.257	(e)	(e)	P=0.527
POLY 1.5	P=0.606	P=0.251	(e)	(e)	P=0.519
POLY 6	P=0.620	P=0.263	(e)	(e)	P=0.537
COCH-ARM / FISHERS	P=0.593	P=0.253	(e)	(e)	P=0.505
MAX-ISO-POLY-3	P=0.370	P=0.094	(e)	(e)	P=0.189

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Heart					
Schwannoma Malignant					
TUMOR RATES					
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/41.80	1/44.27	1/46.51	1/44.60	1/46.81
POLY-3 PERCENT (g)	7.2%	2.3%	2.2%	2.2%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	0/39 (0%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	691	733 (T)	656	733 (T)	684
STATISTICAL TESTS					
POLY 3	P=0.401N	P=0.285N	P=0.268N	P=0.282N	P=0.266N
POLY 1.5	P=0.403N	P=0.293N	P=0.283N	P=0.291N	P=0.280N
POLY 6	P=0.398N	P=0.278N	P=0.253N	P=0.274N	P=0.251N
COCH-ARM / FISHERS	P=0.410N	P=0.309N	P=0.309N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.179N	P=0.146N	P=0.141N	P=0.145N	P=0.140N

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Islets, Pancreatic Adenoma					
TUMOR RATES					
OVERALL (a)	3/49 (6%)	3/50 (6%)	4/50 (8%)	7/50 (14%)	1/50 (2%)
POLY-3 RATE (b)	3/41.41	3/44.56	4/46.89	7/44.80	1/46.62
POLY-3 PERCENT (g)	7.2%	6.7%	8.5%	15.6%	2.1%
TERMINAL (d)	3/32 (9%)	2/34 (6%)	2/39 (5%)	6/35 (17%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	654	624	680	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.177N	P=0.628N	P=0.567	P=0.190	P=0.264N
POLY 1.5	P=0.187N	P=0.639N	P=0.544	P=0.180	P=0.277N
POLY 6	P=0.165N	P=0.617N	P=0.595	P=0.202	P=0.250N
COCH-ARM / FISHERS	P=0.210N	P=0.651N	P=0.511	P=0.167	P=0.301N
MAX-ISO-POLY-3	P=0.200N	P=0.464N	P=0.417	P=0.119	P=0.138N

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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
Liver					
Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	6/50 (12%)
POLY-3 RATE (b)	0/41.64	2/44.27	0/46.23	1/44.60	6/46.62
POLY-3 PERCENT (g)	0%	4.5%	0%	2.2%	12.9%
TERMINAL (d)	0/32 (0%)	2/34 (6%)	0/39 (0%)	1/35 (3%)	6/42 (14%)
FIRST INCIDENCE	---	733 (T)	---	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.251	(e)	P=0.514	P=0.022*
POLY 1.5	P<0.001**	P=0.245	(e)	P=0.508	P=0.019*
POLY 6	P<0.001**	P=0.256	(e)	P=0.519	P=0.026*
COCH-ARM / FISHERS	P<0.001**	P=0.247	(e)	P=0.500	P=0.013*
MAX-ISO-POLY-3	P<0.001**	P=0.089	(e)	P=0.174	P=0.010**

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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
Liver					
Hepatocellular Carcinoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	6/50 (12%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	0/44.60	6/46.81
POLY-3 PERCENT (g)	0%	0%	0%	0%	12.8%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	5/42 (12%)
FIRST INCIDENCE	---	---	---	---	684
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.022*
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.020*
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.026*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.013*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.011*

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Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Hepatocellular Carcinoma or Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	12/50 (24%)
POLY-3 RATE (b)	0/41.64	2/44.27	0/46.23	1/44.60	12/46.81
POLY-3 PERCENT (g)	0%	4.5%	0%	2.2%	25.6%
TERMINAL (d)	0/32 (0%)	2/34 (6%)	0/39 (0%)	1/35 (3%)	11/42 (26%)
FIRST INCIDENCE	---	733 (T)	---	733 (T)	684
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.251	(e)	P=0.514	P<0.001**
POLY 1.5	P<0.001**	P=0.245	(e)	P=0.508	P<0.001**
POLY 6	P<0.001**	P=0.256	(e)	P=0.519	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.247	(e)	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.089	(e)	P=0.174	P<0.001**

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Liver					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	12/50 (24%)
POLY-3 RATE (b)	0/41.64	2/44.27	0/46.23	1/44.60	12/46.81
POLY-3 PERCENT (g)	0%	4.5%	0%	2.2%	25.6%
TERMINAL (d)	0/32 (0%)	2/34 (6%)	0/39 (0%)	1/35 (3%)	11/42 (26%)
FIRST INCIDENCE	---	733 (T)	---	733 (T)	684
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.251	(e)	P=0.514	P<0.001**
POLY 1.5	P<0.001**	P=0.245	(e)	P=0.508	P<0.001**
POLY 6	P<0.001**	P=0.256	(e)	P=0.519	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.247	(e)	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.089	(e)	P=0.174	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Carcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Fibroadenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.31	1/46.23	1/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	2.2%	2.2%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	1/39 (3%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	---	723	733 (T)	733 (T)	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Mammary Gland Fibroma, Fibroadenoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.31	1/46.23	1/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	2.2%	2.2%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	1/39 (3%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	---	723	733 (T)	733 (T)	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

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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
Mammary Gland					
Fibroma, Fibroadenoma, Carcinoma, or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.31	1/46.23	1/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	2.2%	2.2%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	1/39 (3%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	---	723	733 (T)	733 (T)	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas Adenoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	4/50 (8%)	5/50 (10%)	23/50 (46%)	30/50 (60%)
POLY-3 RATE (b)	1/41.41	4/44.68	5/46.66	23/46.10	30/46.89
POLY-3 PERCENT (g)	2.4%	9%	10.7%	49.9%	64%
TERMINAL (d)	1/32 (3%)	3/34 (9%)	3/39 (8%)	18/35 (51%)	29/42 (69%)
FIRST INCIDENCE	733 (T)	615	669	323	661
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.202	P=0.131	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.195	P=0.121	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.210	P=0.145	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.187	P=0.107	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.104	P=0.071	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas Carcinoma					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	0/41.41	1/44.27	0/46.23	1/44.60	5/47.02
POLY-3 PERCENT (g)	0%	2.3%	0%	2.2%	10.6%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	0/39 (0%)	1/35 (3%)	4/42 (10%)
FIRST INCIDENCE	---	732	---	733 (T)	621
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.513	(e)	P=0.515	P=0.043*
POLY 1.5	P<0.001**	P=0.509	(e)	P=0.511	P=0.039*
POLY 6	P<0.001**	P=0.517	(e)	P=0.519	P=0.048*
COCH-ARM / FISHERS	P<0.001**	P=0.505	(e)	P=0.505	P=0.030*
MAX-ISO-POLY-3	P=0.002**	P=0.173	(e)	P=0.175	P=0.019*

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pancreas Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	1/49 (2%)	5/50 (10%)	5/50 (10%)	23/50 (46%)	33/50 (66%)
POLY-3 RATE (b)	1/41.41	5/44.68	5/46.66	23/46.10	33/47.28
POLY-3 PERCENT (g)	2.4%	11.2%	10.7%	49.9%	69.8%
TERMINAL (d)	1/32 (3%)	3/34 (9%)	3/39 (8%)	18/35 (51%)	31/42 (74%)
FIRST INCIDENCE	733 (T)	615	669	323	621
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.119	P=0.131	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.114	P=0.121	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.125	P=0.145	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.107	P=0.107	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.060	P=0.071	P<0.001**	P<0.001**

Experiment Number: 10188 - 01

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	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma					
TUMOR RATES					
OVERALL (a)	3/50 (6%)	7/50 (14%)	7/50 (14%)	7/50 (14%)	4/50 (8%)
POLY-3 RATE (b)	3/41.81	7/45.13	7/46.63	7/44.88	4/46.92
POLY-3 PERCENT (g)	7.2%	15.5%	15%	15.6%	8.5%
TERMINAL (d)	2/32 (6%)	5/34 (15%)	5/39 (13%)	4/35 (11%)	3/42 (7%)
FIRST INCIDENCE	689	556	662	691	653
STATISTICAL TESTS					
POLY 3	P=0.301N	P=0.189	P=0.205	P=0.187	P=0.562
POLY 1.5	P=0.322N	P=0.176	P=0.185	P=0.175	P=0.539
POLY 6	P=0.278N	P=0.203	P=0.229	P=0.199	P=0.588
COCH-ARM / FISHERS	P=0.363N	P=0.159	P=0.159	P=0.159	P=0.500
MAX-ISO-POLY-3	P=0.345	P=0.120	P=0.134	P=0.117	P=0.413

Experiment Number: 10188 - 01

Test Type: CHRONIC

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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	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/41.64	1/44.27	3/46.51	2/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	2.3%	6.5%	4.5%	0%
TERMINAL (d)	1/32 (3%)	1/34 (3%)	2/39 (5%)	2/35 (6%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	733 (T)	658	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.201N	P=0.747N	P=0.346	P=0.524	P=0.477N
POLY 1.5	P=0.210N	P=0.753N	P=0.329	P=0.515	P=0.486N
POLY 6	P=0.190N	P=0.742N	P=0.365	P=0.533	P=0.468N
COCH-ARM / FISHERS	P=0.228N	P=0.753N	P=0.309	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.282N	P=0.483N	P=0.194	P=0.306	P=0.158N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin Fibroma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	4/50 (8%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/42.34	3/44.60	4/46.61	2/44.76	1/46.62
POLY-3 PERCENT (g)	7.1%	6.7%	8.6%	4.5%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	3/39 (8%)	1/35 (3%)	1/42 (2%)
FIRST INCIDENCE	488	671	624	691	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.146N	P=0.638N	P=0.552	P=0.475N	P=0.272N
POLY 1.5	P=0.152N	P=0.648N	P=0.531	P=0.485N	P=0.284N
POLY 6	P=0.139N	P=0.628N	P=0.576	P=0.464N	P=0.258N
COCH-ARM / FISHERS	P=0.164N	P=0.661N	P=0.500	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.259N	P=0.474N	P=0.402	P=0.305N	P=0.142N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	6/50 (12%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/42.34	4/44.69	6/46.61	2/44.76	1/46.62
POLY-3 PERCENT (g)	7.1%	9%	12.9%	4.5%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	5/39 (13%)	1/35 (3%)	1/42 (2%)
FIRST INCIDENCE	488	671	624	691	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.076N	P=0.529	P=0.292	P=0.475N	P=0.272N
POLY 1.5	P=0.082N	P=0.517	P=0.271	P=0.485N	P=0.284N
POLY 6	P=0.071N	P=0.543	P=0.316	P=0.464N	P=0.258N
COCH-ARM / FISHERS	P=0.093N	P=0.500	P=0.243	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.134N	P=0.378	P=0.194	P=0.305N	P=0.142N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	6/50 (12%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/42.34	4/44.69	6/46.61	2/44.76	1/46.62
POLY-3 PERCENT (g)	7.1%	9%	12.9%	4.5%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	5/39 (13%)	1/35 (3%)	1/42 (2%)
FIRST INCIDENCE	488	671	624	691	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.076N	P=0.529	P=0.292	P=0.475N	P=0.272N
POLY 1.5	P=0.082N	P=0.517	P=0.271	P=0.485N	P=0.284N
POLY 6	P=0.071N	P=0.543	P=0.316	P=0.464N	P=0.258N
COCH-ARM / FISHERS	P=0.093N	P=0.500	P=0.243	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.134N	P=0.378	P=0.194	P=0.305N	P=0.142N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibrosarcoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.36	2/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	4.3%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	2/39 (5%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	709	733 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.307N	P=0.513	P=0.261	(e)	(e)
POLY 1.5	P=0.316N	P=0.507	P=0.251	(e)	(e)
POLY 6	P=0.297N	P=0.518	P=0.272	(e)	(e)
COCH-ARM / FISHERS	P=0.332N	P=0.500	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.340N	P=0.173	P=0.098	(e)	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.36	2/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	0%	2.3%	4.3%	0%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	2/39 (5%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	709	733 (T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.307N	P=0.513	P=0.261	(e)	(e)
POLY 1.5	P=0.316N	P=0.507	P=0.251	(e)	(e)
POLY 6	P=0.297N	P=0.518	P=0.272	(e)	(e)
COCH-ARM / FISHERS	P=0.332N	P=0.500	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.340N	P=0.173	P=0.098	(e)	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/41.64	0/44.27	2/46.51	2/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	0%	4.3%	4.5%	0%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	1/39 (3%)	2/35 (6%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	658	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.339N	P=0.488N	P=0.538	P=0.524	P=0.477N
POLY 1.5	P=0.349N	P=0.493N	P=0.523	P=0.515	P=0.486N
POLY 6	P=0.327N	P=0.483N	P=0.556	P=0.533	P=0.468N
COCH-ARM / FISHERS	P=0.367N	P=0.500N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.354N	P=0.158N	P=0.322	P=0.306	P=0.158N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Lipoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/41.80	0/44.27	0/46.23	0/44.60	0/46.62
POLY-3 PERCENT (g)	7.2%	0%	0%	0%	0%
TERMINAL (d)	2/32 (6%)	0/34 (0%)	0/39 (0%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	691	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.225N	P=0.108N	P=0.102N	P=0.107N	P=0.100N
POLY 1.5	P=0.219N	P=0.113N	P=0.108N	P=0.112N	P=0.107N
POLY 6	P=0.230N	P=0.105N	P=0.095N	P=0.103N	P=0.094N
COCH-ARM / FISHERS	P=0.214N	P=0.121N	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.004N**	P=0.038N*	P=0.038N*	P=0.038N*	P=0.038N*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/41.64	0/44.27	3/46.51	2/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	0%	6.5%	4.5%	0%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	2/39 (5%)	2/35 (6%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	658	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.270N	P=0.488N	P=0.346	P=0.524	P=0.477N
POLY 1.5	P=0.281N	P=0.493N	P=0.329	P=0.515	P=0.486N
POLY 6	P=0.257N	P=0.483N	P=0.365	P=0.533	P=0.468N
COCH-ARM / FISHERS	P=0.302N	P=0.500N	P=0.309	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.314N	P=0.158N	P=0.194	P=0.306	P=0.158N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Skin					
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/41.64	0/44.27	2/46.51	2/44.60	0/46.62
POLY-3 PERCENT (g)	2.4%	0%	4.3%	4.5%	0%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	1/39 (3%)	2/35 (6%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	---	658	733 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.339N	P=0.488N	P=0.538	P=0.524	P=0.477N
POLY 1.5	P=0.349N	P=0.493N	P=0.523	P=0.515	P=0.486N
POLY 6	P=0.327N	P=0.483N	P=0.556	P=0.533	P=0.468N
COCH-ARM / FISHERS	P=0.367N	P=0.500N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.354N	P=0.158N	P=0.322	P=0.306	P=0.158N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Testis					
Adenoma					
TUMOR RATES					
OVERALL (a)	7/50 (14%)	3/50 (6%)	3/50 (6%)	6/50 (12%)	15/50 (30%)
POLY-3 RATE (b)	7/42.00	3/44.27	3/46.47	6/44.76	15/46.62
POLY-3 PERCENT (g)	16.7%	6.8%	6.5%	13.4%	32.2%
TERMINAL (d)	6/32 (19%)	3/34 (9%)	2/39 (5%)	5/35 (14%)	15/42 (36%)
FIRST INCIDENCE	632	733 (T)	669	691	733 (T)
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.135N	P=0.119N	P=0.451N	P=0.073
POLY 1.5	P<0.001**	P=0.144N	P=0.134N	P=0.469N	P=0.061
POLY 6	P<0.001**	P=0.128N	P=0.104N	P=0.432N	P=0.088
COCH-ARM / FISHERS	P<0.001**	P=0.159N	P=0.159N	P=0.500N	P=0.045*
MAX-ISO-POLY-3	P<0.001**	P=0.080N	P=0.074N	P=0.340N	P=0.053

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: C-Cell Adenoma					
TUMOR RATES					
OVERALL (a)	13/50 (26%)	9/50 (18%)	14/50 (28%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	13/41.78	9/44.27	14/46.88	8/44.62	10/46.88
POLY-3 PERCENT (g)	31.1%	20.3%	29.9%	17.9%	21.3%
TERMINAL (d)	12/32 (38%)	9/34 (27%)	12/39 (31%)	7/35 (20%)	9/42 (21%)
FIRST INCIDENCE	697	733 (T)	624	728	663
STATISTICAL TESTS					
POLY 3	P=0.266N	P=0.183N	P=0.541N	P=0.117N	P=0.210N
POLY 1.5	P=0.289N	P=0.203N	P=0.584	P=0.134N	P=0.248N
POLY 6	P=0.239N	P=0.166N	P=0.477N	P=0.103N	P=0.172N
COCH-ARM / FISHERS	P=0.336N	P=0.235N	P=0.500	P=0.163N	P=0.318N
MAX-ISO-POLY-3	P=0.208N	P=0.130N	P=0.451N	P=0.081N	P=0.159N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: C-Cell Carcinoma					
TUMOR RATES					
OVERALL (a)	2/50 (4%)	7/50 (14%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/41.64	7/44.66	3/46.23	2/44.60	1/46.62
POLY-3 PERCENT (g)	4.8%	15.7%	6.5%	4.5%	2.1%
TERMINAL (d)	2/32 (6%)	5/34 (15%)	3/39 (8%)	2/35 (6%)	1/42 (2%)
FIRST INCIDENCE	733 (T)	635	733 (T)	733 (T)	733 (T)
STATISTICAL TESTS					
POLY 3	P=0.076N	P=0.096	P=0.547	P=0.669N	P=0.461N
POLY 1.5	P=0.082N	P=0.089	P=0.528	P=0.679N	P=0.475N
POLY 6	P=0.070N	P=0.103	P=0.568	P=0.659N	P=0.445N
COCH-ARM / FISHERS	P=0.095N	P=0.080	P=0.500	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.125N	P=0.054	P=0.374	P=0.472N	P=0.259N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Thyroid Gland: C-Cell Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	14/50 (28%)	14/50 (28%)	16/50 (32%)	9/50 (18%)	11/50 (22%)
POLY-3 RATE (b)	14/41.78	14/44.66	16/46.88	9/44.62	11/46.88
POLY-3 PERCENT (g)	33.5%	31.4%	34.1%	20.2%	23.5%
TERMINAL (d)	13/32 (41%)	12/34 (35%)	14/39 (36%)	8/35 (23%)	10/42 (24%)
FIRST INCIDENCE	697	635	624	728	663
STATISTICAL TESTS					
POLY 3	P=0.134N	P=0.506N	P=0.565	P=0.121N	P=0.208N
POLY 1.5	P=0.153N	P=0.541N	P=0.502	P=0.139N	P=0.248N
POLY 6	P=0.116N	P=0.472N	P=0.545N	P=0.105N	P=0.167N
COCH-ARM / FISHERS	P=0.192N	P=0.588N	P=0.414	P=0.171N	P=0.322N
MAX-ISO-POLY-3	P=0.223N	P=0.417N	P=0.476	P=0.085N	P=0.159N

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.64	1/44.56	3/46.28	2/44.72	0/46.62
POLY-3 PERCENT (g)	0%	2.2%	6.5%	4.5%	0%
TERMINAL (d)	0/32 (0%)	0/34 (0%)	2/39 (5%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	---	653	722	707	---
STATISTICAL TESTS					
POLY 3	P=0.276N	P=0.514	P=0.139	P=0.253	(e)
POLY 1.5	P=0.289N	P=0.508	P=0.131	P=0.247	(e)
POLY 6	P=0.261N	P=0.519	P=0.148	P=0.260	(e)
COCH-ARM / FISHERS	P=0.314N	P=0.500	P=0.121	P=0.247	(e)
MAX-ISO-POLY-3	P=0.284	P=0.174	P=0.056	P=0.091	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	2/42.20	1/44.56	0/46.23	4/45.49	0/46.62
POLY-3 PERCENT (g)	4.7%	2.2%	0%	8.8%	0%
TERMINAL (d)	1/32 (3%)	0/34 (0%)	0/39 (0%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	556	653	---	504	---
STATISTICAL TESTS					
POLY 3	P=0.311N	P=0.481N	P=0.217N	P=0.372	P=0.216N
POLY 1.5	P=0.317N	P=0.489N	P=0.225N	P=0.359	P=0.223N
POLY 6	P=0.304N	P=0.474N	P=0.209N	P=0.386	P=0.208N
COCH-ARM / FISHERS	P=0.332N	P=0.500N	P=0.247N	P=0.339	P=0.247N
MAX-ISO-POLY-3	P=0.195N	P=0.269N	P=0.075N	P=0.235	P=0.075N

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

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

Date Report Requested: 02/10/2020
 Time Report Requested: 17:07:48
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant Schwannoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/41.80	1/44.27	1/46.51	1/44.60	1/46.81
POLY-3 PERCENT (g)	7.2%	2.3%	2.2%	2.2%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	0/39 (0%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	691	733 (T)	656	733 (T)	684
STATISTICAL TESTS					
POLY 3	P=0.401N	P=0.285N	P=0.268N	P=0.282N	P=0.266N
POLY 1.5	P=0.403N	P=0.293N	P=0.283N	P=0.291N	P=0.280N
POLY 6	P=0.398N	P=0.278N	P=0.253N	P=0.274N	P=0.251N
COCH-ARM / FISHERS	P=0.410N	P=0.309N	P=0.309N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.179N	P=0.146N	P=0.141N	P=0.145N	P=0.140N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Mesothelioma: Benign, Malignant, NOS					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/41.64	3/44.68	1/46.23	0/44.60	1/46.92
POLY-3 PERCENT (g)	4.8%	6.7%	2.2%	0%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	1/39 (3%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	615	733 (T)	---	653
STATISTICAL TESTS					
POLY 3	P=0.304N	P=0.532	P=0.464N	P=0.222N	P=0.459N
POLY 1.5	P=0.309N	P=0.519	P=0.478N	P=0.228N	P=0.474N
POLY 6	P=0.300N	P=0.545	P=0.448N	P=0.216N	P=0.441N
COCH-ARM / FISHERS	P=0.317N	P=0.500	P=0.500N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.207N	P=0.357	P=0.260N	P=0.075N	P=0.258N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Mesothelioma: Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/41.64	3/44.68	1/46.23	0/44.60	1/46.92
POLY-3 PERCENT (g)	4.8%	6.7%	2.2%	0%	2.1%
TERMINAL (d)	2/32 (6%)	1/34 (3%)	1/39 (3%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	733 (T)	615	733 (T)	---	653
STATISTICAL TESTS					
POLY 3	P=0.304N	P=0.532	P=0.464N	P=0.222N	P=0.459N
POLY 1.5	P=0.309N	P=0.519	P=0.478N	P=0.228N	P=0.474N
POLY 6	P=0.300N	P=0.545	P=0.448N	P=0.216N	P=0.441N
COCH-ARM / FISHERS	P=0.317N	P=0.500	P=0.500N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.207N	P=0.357	P=0.260N	P=0.075N	P=0.258N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	27/50 (54%)	31/50 (62%)	30/50 (60%)	37/50 (74%)	41/50 (82%)
POLY-3 RATE (b)	27/43.47	31/46.29	30/47.84	37/46.89	41/47.44
POLY-3 PERCENT (g)	62.1%	67%	62.7%	78.9%	86.4%
TERMINAL (d)	21/32 (66%)	23/34 (68%)	23/39 (59%)	28/35 (80%)	38/42 (91%)
FIRST INCIDENCE	488	556	624	323	653
STATISTICAL TESTS					
POLY 3	P=0.002**	P=0.395	P=0.563	P=0.054	P=0.004**
POLY 1.5	P=0.002**	P=0.337	P=0.469	P=0.042*	P=0.003**
POLY 6	P=0.002**	P=0.458	P=0.504N	P=0.071	P=0.007**
COCH-ARM / FISHERS	P=0.002**	P=0.272	P=0.343	P=0.030*	P=0.002**
MAX-ISO-POLY-3	P=0.003**	P=0.316	P=0.476	P=0.037*	P=0.003**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	13/50 (26%)	18/50 (36%)	15/50 (30%)	10/50 (20%)	16/50 (32%)
POLY-3 RATE (b)	13/43.80	18/46.42	15/46.84	10/46.08	16/48.30
POLY-3 PERCENT (g)	29.7%	38.8%	32%	21.7%	33.1%
TERMINAL (d)	7/32 (22%)	11/34 (32%)	12/39 (31%)	5/35 (14%)	12/42 (29%)
FIRST INCIDENCE	465	257	656	504	425
STATISTICAL TESTS					
POLY 3	P=0.530N	P=0.245	P=0.494	P=0.266N	P=0.448
POLY 1.5	P=0.547	P=0.227	P=0.462	P=0.284N	P=0.406
POLY 6	P=0.498N	P=0.258	P=0.526	P=0.251N	P=0.490
COCH-ARM / FISHERS	P=0.485	P=0.194	P=0.412	P=0.318N	P=0.330
MAX-ISO-POLY-3	P=0.441N	P=0.186	P=0.407	P=0.198N	P=0.367

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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

DOSE	Males				
	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
All Organs					
Malignant and Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	32/50 (64%)	40/50 (80%)	38/50 (76%)	39/50 (78%)	46/50 (92%)
POLY-3 RATE (b)	32/45.04	40/47.89	38/48.17	39/48.05	46/48.83
POLY-3 PERCENT (g)	71.1%	83.5%	78.9%	81.2%	94.2%
TERMINAL (d)	23/32 (72%)	28/34 (82%)	29/39 (74%)	28/35 (80%)	40/42 (95%)
FIRST INCIDENCE	465	257	624	323	425
STATISTICAL TESTS					
POLY 3	P=0.006**	P=0.107	P=0.258	P=0.174	P<0.001**
POLY 1.5	P=0.004**	P=0.083	P=0.195	P=0.138	P<0.001**
POLY 6	P=0.007**	P=0.136	P=0.351	P=0.214	P=0.003**
COCH-ARM / FISHERS	P=0.003**	P=0.059	P=0.138	P=0.093	P<0.001**
MAX-ISO-POLY-3	P=0.003**	P=0.072	P=0.193	P=0.124	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Cortex					
Adenoma					
<hr/>					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

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

Date Report Requested: 02/10/2020
 Time Report Requested: 17:07:48
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Medulla					
Pheochromocytoma Benign					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/43.28	2/41.45	1/42.00	1/44.19	2/41.95
POLY-3 PERCENT (g)	2.3%	4.8%	2.4%	2.3%	4.8%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	1/33 (3%)	1/34 (3%)	2/32 (6%)
FIRST INCIDENCE	668	580	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.451	P=0.485	P=0.754	P=0.756N	P=0.489
POLY 1.5	P=0.455	P=0.487	P=0.755	P=0.757N	P=0.494
POLY 6	P=0.442	P=0.488	P=0.753	P=0.756N	P=0.482
COCH-ARM / FISHERS	P=0.456	P=0.500	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.467	P=0.271	P=0.491	P=0.494N	P=0.274

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Medulla					
Pheochromocytoma Malignant					
<hr/>					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	1/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	2.4%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	736 (T)	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adrenal Medulla					
Pheochromocytoma: Benign, Complex, Malignant, NOS					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/43.28	3/41.45	1/42.00	1/44.19	2/41.95
POLY-3 PERCENT (g)	2.3%	7.2%	2.4%	2.3%	4.8%
TERMINAL (d)	0/33 (0%)	2/34 (6%)	1/33 (3%)	1/34 (3%)	2/32 (6%)
FIRST INCIDENCE	668	580	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.550	P=0.290	P=0.754	P=0.756N	P=0.489
POLY 1.5	P=0.554	P=0.292	P=0.755	P=0.757N	P=0.494
POLY 6	P=0.542	P=0.292	P=0.753	P=0.756N	P=0.482
COCH-ARM / FISHERS	P=0.557	P=0.309	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.487	P=0.147	P=0.491	P=0.494N	P=0.274

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Brain					
Glioma Malignant					
<hr/>					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

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

Date Report Requested: 02/10/2020
 Time Report Requested: 17:07:48
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Brain					
Granular Cell Tumor Benign					
TUMOR RATES					
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/43.03	0/40.94	0/42.00	1/44.19	0/41.95
POLY-3 PERCENT (g)	4.7%	0%	0%	2.3%	0%
TERMINAL (d)	2/33 (6%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	736 (T)	---	---	736 (T)	---
STATISTICAL TESTS					
POLY 3	P=0.365N	P=0.248N	P=0.242N	P=0.491N	P=0.243N
POLY 1.5	P=0.364N	P=0.247N	P=0.242N	P=0.494N	P=0.240N
POLY 6	P=0.369N	P=0.246N	P=0.242N	P=0.488N	P=0.246N
COCH-ARM / FISHERS	P=0.373N	P=0.247N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.063N	P=0.086N	P=0.080N	P=0.275N	P=0.081N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
<hr/>					
Clitoral/Preputial Gland Squamous Cell Carcinoma					
<hr/>					
TUMOR RATES					
OVERALL (a)	0/49 (0%)	1/49 (2%)	0/47 (0%)	0/49 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/42.36	1/40.15	0/40.28	0/43.50	0/40.30
POLY-3 PERCENT (g)	0%	2.5%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/32 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	736 (T)	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Heart					
Schwannoma Malignant					
<hr/>					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	1/43.03	0/40.94	0/42.00	0/43.23	1/40.95
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	2.4%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	736 (T)	---	---	---	736 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Islets, Pancreatic Adenoma					
TUMOR RATES					
OVERALL (a)	1/50 (2%)	3/50 (6%)	3/50 (6%)	0/50 (0%)	2/48 (4%)
POLY-3 RATE (b)	1/43.03	3/41.53	3/42.00	0/44.19	2/40.28
POLY-3 PERCENT (g)	2.3%	7.2%	7.1%	0%	5%
TERMINAL (d)	1/33 (3%)	2/34 (6%)	3/33 (9%)	0/34 (0%)	2/31 (7%)
FIRST INCIDENCE	736 (T)	546	736 (T)	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.584N	P=0.292	P=0.296	P=0.495N	P=0.477
POLY 1.5	P=0.581N	P=0.293	P=0.297	P=0.497N	P=0.481
POLY 6	P=0.589N	P=0.297	P=0.296	P=0.493N	P=0.472
COCH-ARM / FISHERS	P=0.580N	P=0.309	P=0.309	P=0.500N	P=0.485
MAX-ISO-POLY-3	P=0.427N	P=0.148	P=0.150	P=0.158N	P=0.265

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	13/49 (27%)
POLY-3 RATE (b)	0/43.03	0/40.94	1/42.00	1/44.19	13/41.52
POLY-3 PERCENT (g)	0%	0%	2.4%	2.3%	31.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	1/34 (3%)	11/31 (36%)
FIRST INCIDENCE	---	---	736 (T)	736 (T)	652
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	P=0.495	P=0.505	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.496	P=0.503	P<0.001**
POLY 6	P<0.001**	(e)	P=0.495	P=0.507	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.164	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Carcinoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	2/40.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.9%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	2/31 (7%)
FIRST INCIDENCE	---	---	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.018*	(e)	(e)	(e)	P=0.226
POLY 1.5	P=0.018*	(e)	(e)	(e)	P=0.229
POLY 6	P=0.017*	(e)	(e)	(e)	P=0.222
COCH-ARM / FISHERS	P=0.019*	(e)	(e)	(e)	P=0.242
MAX-ISO-POLY-3	P=0.020*	(e)	(e)	(e)	P=0.074

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Carcinoma or Hepatocellular Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	14/49 (29%)
POLY-3 RATE (b)	0/43.03	0/40.94	1/42.00	1/44.19	14/41.52
POLY-3 PERCENT (g)	0%	0%	2.4%	2.3%	33.7%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	1/34 (3%)	12/31 (39%)
FIRST INCIDENCE	---	---	736 (T)	736 (T)	652

STATISTICAL TESTS

POLY 3	P<0.001**	(e)	P=0.495	P=0.505	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.496	P=0.503	P<0.001**
POLY 6	P<0.001**	(e)	P=0.495	P=0.507	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.164	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Liver					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	14/49 (29%)
POLY-3 RATE (b)	0/43.03	0/40.94	1/42.00	1/44.19	14/41.52
POLY-3 PERCENT (g)	0%	0%	2.4%	2.3%	33.7%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	1/33 (3%)	1/34 (3%)	12/31 (39%)
FIRST INCIDENCE	---	---	736 (T)	736 (T)	652
STATISTICAL TESTS					
POLY 3	P<0.001**	(e)	P=0.495	P=0.505	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.496	P=0.503	P<0.001**
POLY 6	P<0.001**	(e)	P=0.495	P=0.507	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.164	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/50 (16%)	4/50 (8%)	4/50 (8%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	8/45.72	4/41.80	4/42.74	4/44.44	3/43.59
POLY-3 PERCENT (g)	17.5%	9.6%	9.4%	9%	6.9%
TERMINAL (d)	2/33 (6%)	2/34 (6%)	2/33 (6%)	3/34 (9%)	0/32 (0%)
FIRST INCIDENCE	468	523	498	669	404
STATISTICAL TESTS					
POLY 3	P=0.178N	P=0.222N	P=0.210N	P=0.190N	P=0.113N
POLY 1.5	P=0.177N	P=0.210N	P=0.200N	P=0.184N	P=0.106N
POLY 6	P=0.184N	P=0.231N	P=0.224N	P=0.200N	P=0.124N
COCH-ARM / FISHERS	P=0.188N	P=0.178N	P=0.178N	P=0.178N	P=0.100N
MAX-ISO-POLY-3	P=0.093N	P=0.151N	P=0.139N	P=0.120N	P=0.067N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Carcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	8/50 (16%)	5/50 (10%)	4/50 (8%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	8/45.72	5/41.80	4/42.74	4/44.44	3/43.59
POLY-3 PERCENT (g)	17.5%	12%	9.4%	9%	6.9%
TERMINAL (d)	2/33 (6%)	3/34 (9%)	2/33 (6%)	3/34 (9%)	0/32 (0%)
FIRST INCIDENCE	468	523	498	669	404
STATISTICAL TESTS					
POLY 3	P=0.147N	P=0.336N	P=0.210N	P=0.190N	P=0.113N
POLY 1.5	P=0.146N	P=0.319N	P=0.200N	P=0.184N	P=0.106N
POLY 6	P=0.153N	P=0.347N	P=0.224N	P=0.200N	P=0.124N
COCH-ARM / FISHERS	P=0.154N	P=0.277N	P=0.178N	P=0.178N	P=0.100N
MAX-ISO-POLY-3	P=0.099N	P=0.243N	P=0.139N	P=0.120N	P=0.067N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Fibroadenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	25/50 (50%)	31/50 (62%)	23/50 (46%)	18/50 (36%)	12/50 (24%)
POLY-3 RATE (b)	25/46.07	31/47.28	23/44.69	18/46.38	12/44.83
POLY-3 PERCENT (g)	54.3%	65.6%	51.5%	38.8%	26.8%
TERMINAL (d)	17/33 (52%)	20/34 (59%)	15/33 (46%)	13/34 (38%)	6/32 (19%)
FIRST INCIDENCE	489	238	545	523	474
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.179	P=0.477N	P=0.096N	P=0.005N**
POLY 1.5	P<0.001N**	P=0.170	P=0.469N	P=0.100N	P=0.005N**
POLY 6	P<0.001N**	P=0.193	P=0.478N	P=0.097N	P=0.006N**
COCH-ARM / FISHERS	P<0.001N**	P=0.157	P=0.421N	P=0.113N	P=0.006N**
MAX-ISO-POLY-3	P<0.001N**	P=0.130	P=0.395N	P=0.065N	P=0.003N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland Fibroma, Fibroadenoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	25/50 (50%)	31/50 (62%)	23/50 (46%)	19/50 (38%)	12/50 (24%)
POLY-3 RATE (b)	25/46.07	31/47.28	23/44.69	19/46.38	12/44.83
POLY-3 PERCENT (g)	54.3%	65.6%	51.5%	41%	26.8%
TERMINAL (d)	17/33 (52%)	20/34 (59%)	15/33 (46%)	14/34 (41%)	6/32 (19%)
FIRST INCIDENCE	489	238	545	523	474
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.179	P=0.477N	P=0.138N	P=0.005N**
POLY 1.5	P<0.001N**	P=0.170	P=0.469N	P=0.142N	P=0.005N**
POLY 6	P<0.001N**	P=0.193	P=0.478N	P=0.140N	P=0.006N**
COCH-ARM / FISHERS	P<0.001N**	P=0.157	P=0.421N	P=0.157N	P=0.006N**
MAX-ISO-POLY-3	P<0.001N**	P=0.130	P=0.395N	P=0.097N	P=0.003N**

Experiment Number: 10188 - 01
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/HSD

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

Date Report Requested: 02/10/2020
 Time Report Requested: 17:07:48
 First Dose M/F: 02/17/11 / 02/18/11
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Mammary Gland					
Fibroma, Fibroadenoma, Carcinoma, or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	29/50 (58%)	32/50 (64%)	26/50 (52%)	22/50 (44%)	15/50 (30%)
POLY-3 RATE (b)	29/47.38	32/47.92	26/45.39	22/46.63	15/46.47
POLY-3 PERCENT (g)	61.2%	66.8%	57.3%	47.2%	32.3%
TERMINAL (d)	19/33 (58%)	20/34 (59%)	17/33 (52%)	16/34 (47%)	6/32 (19%)
FIRST INCIDENCE	468	238	498	523	404
STATISTICAL TESTS					
POLY 3	P<0.001N**	P=0.361	P=0.431N	P=0.119N	P=0.003N**
POLY 1.5	P<0.001N**	P=0.354	P=0.411N	P=0.115N	P=0.003N**
POLY 6	P<0.001N**	P=0.374	P=0.443N	P=0.128N	P=0.004N**
COCH-ARM / FISHERS	P<0.001N**	P=0.341	P=0.344N	P=0.115N	P=0.004N**
MAX-ISO-POLY-3	P<0.001N**	P=0.285	P=0.351N	P=0.083N	P=0.002N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas					
Adenoma					
<hr/>					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/47 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	1/44.19	1/39.36
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	2.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	736 (T)	736 (T)
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas Carcinoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	1/39.65
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	656
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pancreas					
Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/47 (4%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	1/44.19	2/39.65
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	5%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	736 (T)	656
STATISTICAL TESTS					
POLY 3	P=0.038*	(e)	(e)	P=0.505	P=0.219
POLY 1.5	P=0.038*	(e)	(e)	P=0.503	P=0.221
POLY 6	P=0.037*	(e)	(e)	P=0.507	P=0.217
COCH-ARM / FISHERS	P=0.038*	(e)	(e)	P=0.500	P=0.232
MAX-ISO-POLY-3	P=0.051	(e)	(e)	P=0.164	P=0.072

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma					
TUMOR RATES					
OVERALL (a)	13/49 (27%)	11/50 (22%)	12/50 (24%)	8/50 (16%)	3/50 (6%)
POLY-3 RATE (b)	13/42.72	11/40.94	12/42.96	8/44.50	3/42.40
POLY-3 PERCENT (g)	30.4%	26.9%	27.9%	18%	7.1%
TERMINAL (d)	11/33 (33%)	11/34 (32%)	9/33 (27%)	7/34 (21%)	2/32 (6%)
FIRST INCIDENCE	646	736 (T)	635	651	603
STATISTICAL TESTS					
POLY 3	P=0.002N**	P=0.453N	P=0.493N	P=0.132N	P=0.005N**
POLY 1.5	P=0.003N**	P=0.437N	P=0.495N	P=0.138N	P=0.005N**
POLY 6	P=0.003N**	P=0.458N	P=0.485N	P=0.128N	P=0.005N**
COCH-ARM / FISHERS	P=0.003N**	P=0.385N	P=0.477N	P=0.150N	P=0.005N**
MAX-ISO-POLY-3	P=0.004N**	P=0.361N	P=0.399N	P=0.088N	P=0.003N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	1/44.19	1/41.95
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	2.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibroma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.91	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	355	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.91	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	355	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibrosarcoma					
<hr/>					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
<hr/>					
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.91	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	2.3%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	355	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	1/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	2.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Lipoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	1/44.19	1/41.95
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	2.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Skin					
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	1/44.19	1/41.95
POLY-3 PERCENT (g)	0%	0%	0%	2.3%	2.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: C-Cell Adenoma					
TUMOR RATES					
OVERALL (a)	12/50 (24%)	10/50 (20%)	13/50 (26%)	10/48 (21%)	4/49 (8%)
POLY-3 RATE (b)	12/43.48	10/42.19	13/43.48	10/42.55	4/40.95
POLY-3 PERCENT (g)	27.6%	23.7%	29.9%	23.5%	9.8%
TERMINAL (d)	9/33 (27%)	8/34 (24%)	8/33 (24%)	9/34 (27%)	4/31 (13%)
FIRST INCIDENCE	668	469	617	712	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.018N*	P=0.434N	P=0.500	P=0.425N	P=0.032N*
POLY 1.5	P=0.016N*	P=0.434N	P=0.490	P=0.432N	P=0.030N*
POLY 6	P=0.022N*	P=0.422N	P=0.520	P=0.421N	P=0.036N*
COCH-ARM / FISHERS	P=0.017N*	P=0.405N	P=0.500	P=0.447N	P=0.030N*
MAX-ISO-POLY-3	P=0.032N*	P=0.341N	P=0.406	P=0.331N	P=0.019N*

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: C-Cell Carcinoma					
TUMOR RATES					
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/43.03	2/41.68	0/42.00	0/42.45	0/40.95
POLY-3 PERCENT (g)	4.7%	4.8%	0%	0%	0%
TERMINAL (d)	2/33 (6%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	736 (T)	469	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.162N	P=0.683	P=0.242N	P=0.240N	P=0.248N
POLY 1.5	P=0.162N	P=0.683	P=0.242N	P=0.242N	P=0.245N
POLY 6	P=0.163N	P=0.688	P=0.242N	P=0.237N	P=0.252N
COCH-ARM / FISHERS	P=0.164N	P=0.691N	P=0.247N	P=0.258N	P=0.253N
MAX-ISO-POLY-3	P=0.105N	P=0.487	P=0.080N	P=0.078N	P=0.085N

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Thyroid Gland: C-Cell Carcinoma or Adenoma					
TUMOR RATES					
OVERALL (a)	14/50 (28%)	11/50 (22%)	13/50 (26%)	10/48 (21%)	4/49 (8%)
POLY-3 RATE (b)	14/43.48	11/42.19	13/43.48	10/42.55	4/40.95
POLY-3 PERCENT (g)	32.2%	26.1%	29.9%	23.5%	9.8%
TERMINAL (d)	11/33 (33%)	9/34 (27%)	8/33 (24%)	9/34 (27%)	4/31 (13%)
FIRST INCIDENCE	668	469	617	712	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.008N**	P=0.349N	P=0.500N	P=0.254N	P=0.010N**
POLY 1.5	P=0.007N**	P=0.350N	P=0.511N	P=0.262N	P=0.009N**
POLY 6	P=0.010N**	P=0.336N	P=0.479N	P=0.248N	P=0.011N*
COCH-ARM / FISHERS	P=0.008N**	P=0.322N	P=0.500N	P=0.278N	P=0.010N**
MAX-ISO-POLY-3	P=0.014N*	P=0.268N	P=0.408N	P=0.182N	P=0.006N**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Adenocarcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	2/50 (4%)	10/50 (20%)
POLY-3 RATE (b)	2/43.03	2/41.09	1/42.00	2/44.19	10/41.95
POLY-3 PERCENT (g)	4.7%	4.9%	2.4%	4.5%	23.8%
TERMINAL (d)	2/33 (6%)	1/34 (3%)	1/33 (3%)	2/34 (6%)	10/32 (31%)
FIRST INCIDENCE	736 (T)	697	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.678	P=0.508N	P=0.685N	P=0.011*
POLY 1.5	P<0.001**	P=0.679	P=0.508N	P=0.688N	P=0.012*
POLY 6	P<0.001**	P=0.682	P=0.508N	P=0.682N	P=0.009**
COCH-ARM / FISHERS	P<0.001**	P=0.691N	P=0.500N	P=0.691N	P=0.014*
MAX-ISO-POLY-3	P<0.001**	P=0.481	P=0.290N	P=0.489N	P=0.005**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Adenocarcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	2/50 (4%)	10/50 (20%)
POLY-3 RATE (b)	2/43.03	3/41.09	1/42.00	2/44.19	10/41.95
POLY-3 PERCENT (g)	4.7%	7.3%	2.4%	4.5%	23.8%
TERMINAL (d)	2/33 (6%)	2/34 (6%)	1/33 (3%)	2/34 (6%)	10/32 (31%)
FIRST INCIDENCE	736 (T)	697	736 (T)	736 (T)	736 (T)
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.479	P=0.508N	P=0.685N	P=0.011*
POLY 1.5	P<0.001**	P=0.482	P=0.508N	P=0.688N	P=0.012*
POLY 6	P<0.001**	P=0.484	P=0.508N	P=0.682N	P=0.009**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500N	P=0.691N	P=0.014*
MAX-ISO-POLY-3	P<0.001**	P=0.308	P=0.290N	P=0.489N	P=0.005**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Adenocarcinoma, Adenoma, Sq Cell Carcinoma, or Sq Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	1/50 (2%)	3/50 (6%)	12/50 (24%)
POLY-3 RATE (b)	2/43.03	4/41.09	1/42.00	3/44.54	12/41.95
POLY-3 PERCENT (g)	4.7%	9.7%	2.4%	6.7%	28.6%
TERMINAL (d)	2/33 (6%)	3/34 (9%)	1/33 (3%)	2/34 (6%)	12/32 (38%)
FIRST INCIDENCE	736 (T)	697	736 (T)	639	736 (T)
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.315	P=0.508N	P=0.516	P=0.002**
POLY 1.5	P<0.001**	P=0.319	P=0.508N	P=0.510	P=0.003**
POLY 6	P<0.001**	P=0.320	P=0.508N	P=0.522	P=0.002**
COCH-ARM / FISHERS	P<0.001**	P=0.339	P=0.500N	P=0.500	P=0.004**
MAX-ISO-POLY-3	P<0.001**	P=0.188	P=0.290N	P=0.340	P<0.001**

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	5/50 (10%)	5/50 (10%)	8/50 (16%)	11/50 (22%)	8/50 (16%)
POLY-3 RATE (b)	5/43.73	5/41.88	8/43.55	11/45.27	8/42.33
POLY-3 PERCENT (g)	11.4%	11.9%	18.4%	24.3%	18.9%
TERMINAL (d)	4/33 (12%)	4/34 (12%)	5/33 (15%)	7/34 (21%)	6/32 (19%)
FIRST INCIDENCE	489	286	498	641	652
STATISTICAL TESTS					
POLY 3	P=0.246	P=0.603	P=0.271	P=0.094	P=0.253
POLY 1.5	P=0.258	P=0.608	P=0.268	P=0.090	P=0.262
POLY 6	P=0.229	P=0.606	P=0.278	P=0.101	P=0.242
COCH-ARM / FISHERS	P=0.264	P=0.630N	P=0.277	P=0.086	P=0.277
MAX-ISO-POLY-3	P=0.188	P=0.471	P=0.181	P=0.059	P=0.170

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Polyp Stromal (includes multiple)					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	5/50 (10%)	5/50 (10%)	7/50 (14%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	5/43.73	5/41.88	7/43.55	10/45.11	8/42.33
POLY-3 PERCENT (g)	11.4%	11.9%	16.1%	22.2%	18.9%
TERMINAL (d)	4/33 (12%)	4/34 (12%)	4/33 (12%)	7/34 (21%)	6/32 (19%)
FIRST INCIDENCE	489	286	498	641	652
STATISTICAL TESTS					
POLY 3	P=0.216	P=0.603	P=0.375	P=0.142	P=0.253
POLY 1.5	P=0.227	P=0.608	P=0.372	P=0.137	P=0.262
POLY 6	P=0.201	P=0.606	P=0.384	P=0.149	P=0.242
COCH-ARM / FISHERS	P=0.233	P=0.630N	P=0.380	P=0.131	P=0.277
MAX-ISO-POLY-3	P=0.228	P=0.471	P=0.265	P=0.091	P=0.170

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Polyp Stromal or Sarcoma Stromal					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	5/50 (10%)	5/50 (10%)	7/50 (14%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	5/43.73	5/41.88	7/43.55	10/45.11	8/42.33
POLY-3 PERCENT (g)	11.4%	11.9%	16.1%	22.2%	18.9%
TERMINAL (d)	4/33 (12%)	4/34 (12%)	4/33 (12%)	7/34 (21%)	6/32 (19%)
FIRST INCIDENCE	489	286	498	641	652
STATISTICAL TESTS					
POLY 3	P=0.216	P=0.603	P=0.375	P=0.142	P=0.253
POLY 1.5	P=0.227	P=0.608	P=0.372	P=0.137	P=0.262
POLY 6	P=0.201	P=0.606	P=0.384	P=0.149	P=0.242
COCH-ARM / FISHERS	P=0.233	P=0.630N	P=0.380	P=0.131	P=0.277
MAX-ISO-POLY-3	P=0.228	P=0.471	P=0.265	P=0.091	P=0.170

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Squamous Cell Carcinoma or Squamous Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/43.03	1/40.94	0/42.00	1/44.54	2/41.95
POLY-3 PERCENT (g)	0%	2.4%	0%	2.3%	4.8%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	2/32 (6%)
FIRST INCIDENCE	---	736 (T)	---	639	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.127	P=0.490	(e)	P=0.507	P=0.231
POLY 1.5	P=0.129	P=0.492	(e)	P=0.504	P=0.234
POLY 6	P=0.123	P=0.491	(e)	P=0.510	P=0.228
COCH-ARM / FISHERS	P=0.129	P=0.500	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.097	P=0.158	(e)	P=0.166	P=0.075

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (excluding Uterus, Cervix)					
Squamous Cell Papilloma (includes multiple)					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	2/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.8%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	2/32 (6%)
FIRST INCIDENCE	---	---	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.019*	(e)	(e)	(e)	P=0.231
POLY 1.5	P=0.019*	(e)	(e)	(e)	P=0.234
POLY 6	P=0.019*	(e)	(e)	(e)	P=0.228
COCH-ARM / FISHERS	P=0.020*	(e)	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.021*	(e)	(e)	(e)	P=0.075

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Adenocarcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	4/50 (8%)	10/50 (20%)
POLY-3 RATE (b)	2/43.03	2/41.09	1/42.00	4/44.45	10/41.95
POLY-3 PERCENT (g)	4.7%	4.9%	2.4%	9%	23.8%
TERMINAL (d)	2/33 (6%)	1/34 (3%)	1/33 (3%)	2/34 (6%)	10/32 (31%)
FIRST INCIDENCE	736 (T)	697	736 (T)	677	736 (T)
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.678	P=0.508N	P=0.352	P=0.011*
POLY 1.5	P<0.001**	P=0.679	P=0.508N	P=0.347	P=0.012*
POLY 6	P<0.001**	P=0.682	P=0.508N	P=0.358	P=0.009**
COCH-ARM / FISHERS	P<0.001**	P=0.691N	P=0.500N	P=0.339	P=0.014*
MAX-ISO-POLY-3	P<0.001**	P=0.481	P=0.290N	P=0.214	P=0.005**

Experiment Number: 10188 - 01

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 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix) Adenocarcinoma or Adenoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	4/50 (8%)	10/50 (20%)
POLY-3 RATE (b)	2/43.03	3/41.09	1/42.00	4/44.45	10/41.95
POLY-3 PERCENT (g)	4.7%	7.3%	2.4%	9%	23.8%
TERMINAL (d)	2/33 (6%)	2/34 (6%)	1/33 (3%)	2/34 (6%)	10/32 (31%)
FIRST INCIDENCE	736 (T)	697	736 (T)	677	736 (T)
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.479	P=0.508N	P=0.352	P=0.011*
POLY 1.5	P<0.001**	P=0.482	P=0.508N	P=0.347	P=0.012*
POLY 6	P<0.001**	P=0.484	P=0.508N	P=0.358	P=0.009**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500N	P=0.339	P=0.014*
MAX-ISO-POLY-3	P<0.001**	P=0.308	P=0.290N	P=0.214	P=0.005**

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Adenocarcinoma, Adenoma, Sq Cell Carcinoma, Sq Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	1/50 (2%)	6/50 (12%)	13/50 (26%)
POLY-3 RATE (b)	2/43.03	4/41.09	1/42.00	6/44.80	13/42.37
POLY-3 PERCENT (g)	4.7%	9.7%	2.4%	13.4%	30.7%
TERMINAL (d)	2/33 (6%)	3/34 (9%)	1/33 (3%)	3/34 (9%)	12/32 (38%)
FIRST INCIDENCE	736 (T)	697	736 (T)	639	613
STATISTICAL TESTS					
POLY 3	P<0.001**	P=0.315	P=0.508N	P=0.145	P<0.001**
POLY 1.5	P<0.001**	P=0.319	P=0.508N	P=0.141	P<0.001**
POLY 6	P<0.001**	P=0.320	P=0.508N	P=0.151	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.339	P=0.500N	P=0.134	P=0.002**
MAX-ISO-POLY-3	P<0.001**	P=0.188	P=0.290N	P=0.080	P<0.001**

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Leiomyoma, Leiomyosarcoma, Polyp Stromal, Sarcoma, Sarcoma Stromal, or Schwannoma Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	6/50 (12%)	5/50 (10%)	8/50 (16%)	12/50 (24%)	8/50 (16%)
POLY-3 RATE (b)	6/43.73	5/41.88	8/43.55	12/45.57	8/42.33
POLY-3 PERCENT (g)	13.7%	11.9%	18.4%	26.3%	18.9%
TERMINAL (d)	5/33 (15%)	4/34 (12%)	5/33 (15%)	7/34 (21%)	6/32 (19%)
FIRST INCIDENCE	489	286	498	641	652
STATISTICAL TESTS					
POLY 3	P=0.293	P=0.530N	P=0.382	P=0.109	P=0.360
POLY 1.5	P=0.306	P=0.525N	P=0.378	P=0.103	P=0.371
POLY 6	P=0.274	P=0.528N	P=0.392	P=0.120	P=0.348
COCH-ARM / FISHERS	P=0.312	P=0.500N	P=0.387	P=0.096	P=0.387
MAX-ISO-POLY-3	P=0.210	P=0.405N	P=0.278	P=0.071	P=0.261

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Polyp Stromal (includes multiple)					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	5/50 (10%)	5/50 (10%)	7/50 (14%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	5/43.73	5/41.88	7/43.55	10/45.11	8/42.33
POLY-3 PERCENT (g)	11.4%	11.9%	16.1%	22.2%	18.9%
TERMINAL (d)	4/33 (12%)	4/34 (12%)	4/33 (12%)	7/34 (21%)	6/32 (19%)
FIRST INCIDENCE	489	286	498	641	652
STATISTICAL TESTS					
POLY 3	P=0.216	P=0.603	P=0.375	P=0.142	P=0.253
POLY 1.5	P=0.227	P=0.608	P=0.372	P=0.137	P=0.262
POLY 6	P=0.201	P=0.606	P=0.384	P=0.149	P=0.242
COCH-ARM / FISHERS	P=0.233	P=0.630N	P=0.380	P=0.131	P=0.277
MAX-ISO-POLY-3	P=0.228	P=0.471	P=0.265	P=0.091	P=0.170

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Sarcoma Stromal or Polyp Stromal					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	5/50 (10%)	5/50 (10%)	7/50 (14%)	11/50 (22%)	8/50 (16%)
POLY-3 RATE (b)	5/43.73	5/41.88	7/43.55	11/45.42	8/42.33
POLY-3 PERCENT (g)	11.4%	11.9%	16.1%	24.2%	18.9%
TERMINAL (d)	4/33 (12%)	4/34 (12%)	4/33 (12%)	7/34 (21%)	6/32 (19%)
FIRST INCIDENCE	489	286	498	641	652
STATISTICAL TESTS					
POLY 3	P=0.216	P=0.603	P=0.375	P=0.096	P=0.253
POLY 1.5	P=0.227	P=0.608	P=0.372	P=0.091	P=0.262
POLY 6	P=0.200	P=0.606	P=0.384	P=0.103	P=0.242
COCH-ARM / FISHERS	P=0.233	P=0.630N	P=0.380	P=0.086	P=0.277
MAX-ISO-POLY-3	P=0.186	P=0.471	P=0.265	P=0.060	P=0.170

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Squamous Cell Carcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	1/40.94	0/42.00	2/44.54	1/42.37
POLY-3 PERCENT (g)	0%	2.4%	0%	4.5%	2.4%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	---	736 (T)	---	639	613
STATISTICAL TESTS					
POLY 3	P=0.427	P=0.490	(e)	P=0.245	P=0.497
POLY 1.5	P=0.429	P=0.492	(e)	P=0.242	P=0.498
POLY 6	P=0.422	P=0.491	(e)	P=0.248	P=0.495
COCH-ARM / FISHERS	P=0.427	P=0.500	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.215	P=0.158	(e)	P=0.083	P=0.158

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Squamous Cell Carcinoma or Squamous Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	0/43.03	1/40.94	0/42.00	2/44.54	3/42.37
POLY-3 PERCENT (g)	0%	2.4%	0%	4.5%	7.1%
TERMINAL (d)	0/33 (0%)	1/34 (3%)	0/33 (0%)	1/34 (3%)	2/32 (6%)
FIRST INCIDENCE	---	736 (T)	---	639	613
STATISTICAL TESTS					
POLY 3	P=0.041*	P=0.490	(e)	P=0.245	P=0.115
POLY 1.5	P=0.041*	P=0.492	(e)	P=0.242	P=0.117
POLY 6	P=0.039*	P=0.491	(e)	P=0.248	P=0.114
COCH-ARM / FISHERS	P=0.041*	P=0.500	(e)	P=0.247	P=0.121
MAX-ISO-POLY-3	P=0.042*	P=0.158	(e)	P=0.083	P=0.038*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus (including Uterus, Cervix)					
Squamous Cell Papilloma (includes multiple)					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	2/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	4.8%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	2/32 (6%)
FIRST INCIDENCE	---	---	---	---	736 (T)
STATISTICAL TESTS					
POLY 3	P=0.019*	(e)	(e)	(e)	P=0.231
POLY 1.5	P=0.019*	(e)	(e)	(e)	P=0.234
POLY 6	P=0.019*	(e)	(e)	(e)	P=0.228
COCH-ARM / FISHERS	P=0.020*	(e)	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.021*	(e)	(e)	(e)	P=0.075

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus, Cervix Adenocarcinoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	2/44.45	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	4.5%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	677	---
STATISTICAL TESTS					
POLY 3	P=0.730	(e)	(e)	P=0.244	(e)
POLY 1.5	P=0.734	(e)	(e)	P=0.242	(e)
POLY 6	P=0.722	(e)	(e)	P=0.247	(e)
COCH-ARM / FISHERS	P=0.731	(e)	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.241	(e)	(e)	P=0.082	(e)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Uterus, Cervix					
Adenocarcinoma, Adenoma, Sq Cell Carcinoma, or Sq Cell Papilloma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	3/44.45	1/42.37
POLY-3 PERCENT (g)	0%	0%	0%	6.8%	2.4%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	1/34 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	677	613
STATISTICAL TESTS					
POLY 3	P=0.293	(e)	(e)	P=0.124	P=0.497
POLY 1.5	P=0.295	(e)	(e)	P=0.122	P=0.498
POLY 6	P=0.287	(e)	(e)	P=0.127	P=0.495
COCH-ARM / FISHERS	P=0.291	(e)	(e)	P=0.121	P=0.500
MAX-ISO-POLY-3	P=0.101	(e)	(e)	P=0.043*	P=0.158

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.03	0/40.94	1/42.35	1/44.29	1/42.65
POLY-3 PERCENT (g)	0%	0%	2.4%	2.3%	2.3%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	635	712	489
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/43.03	0/40.94	1/42.76	0/44.19	1/42.22
POLY-3 PERCENT (g)	2.3%	0%	2.3%	0%	2.4%
TERMINAL (d)	1/33 (3%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	736 (T)	---	452	---	662
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant Schwannoma					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.03	1/40.94	0/42.00	1/44.34	1/41.95
POLY-3 PERCENT (g)	2.3%	2.4%	0%	2.3%	2.4%
TERMINAL (d)	1/33 (3%)	1/34 (3%)	0/33 (0%)	0/34 (0%)	1/32 (3%)
FIRST INCIDENCE	736 (T)	736 (T)	---	697	736 (T)
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Mesothelioma: Benign, Malignant, NOS					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Mesothelioma: Malignant					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.03	0/40.94	0/42.00	0/44.19	0/41.95
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/34 (0%)	0/33 (0%)	0/34 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 10188 - 01

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: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	37/50 (74%)	44/50 (88%)	37/50 (74%)	37/50 (74%)	29/50 (58%)
POLY-3 RATE (b)	37/46.27	44/48.38	37/46.71	37/47.37	29/45.67
POLY-3 PERCENT (g)	80%	90.9%	79.2%	78.1%	63.5%
TERMINAL (d)	27/33 (82%)	31/34 (91%)	24/33 (73%)	28/34 (82%)	20/32 (63%)
FIRST INCIDENCE	489	238	498	523	474
STATISTICAL TESTS					
POLY 3	P=0.002N**	P=0.094	P=0.569N	P=0.514N	P=0.054N
POLY 1.5	P=0.002N**	P=0.077	P=0.589	P=0.542N	P=0.057N
POLY 6	P=0.003N**	P=0.124	P=0.487N	P=0.490N	P=0.055N
COCH-ARM / FISHERS	P=0.003N**	P=0.062	P=0.590N	P=0.590N	P=0.069N
MAX-ISO-POLY-3	P=0.003N**	P=0.055	P=0.463N	P=0.410N	P=0.033N*

Experiment Number: 10188 - 01

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 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	16/50 (32%)	14/50 (28%)	7/50 (14%)	15/50 (30%)	24/50 (48%)
POLY-3 RATE (b)	16/46.60	14/42.95	7/43.87	15/46.43	24/45.93
POLY-3 PERCENT (g)	34.3%	32.6%	16%	32.3%	52.3%
TERMINAL (d)	9/33 (27%)	9/34 (27%)	3/33 (9%)	7/34 (21%)	14/32 (44%)
FIRST INCIDENCE	355	469	452	410	404
STATISTICAL TESTS					
POLY 3	P=0.003**	P=0.520N	P=0.036N*	P=0.505N	P=0.059
POLY 1.5	P=0.003**	P=0.495N	P=0.034N*	P=0.504N	P=0.064
POLY 6	P=0.003**	P=0.527N	P=0.039N*	P=0.504N	P=0.056
COCH-ARM / FISHERS	P=0.003**	P=0.414N	P=0.028N*	P=0.500N	P=0.076
MAX-ISO-POLY-3	P=0.004**	P=0.433N	P=0.023N*	P=0.418N	P=0.039*

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females				
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
All Organs					
Malignant and Benign Tumors					
TUMOR RATES	#	#	#	#	#
OVERALL (a)	41/50 (82%)	46/50 (92%)	39/50 (78%)	45/50 (90%)	43/50 (86%)
POLY-3 RATE (b)	41/48.47	46/49.28	39/47.48	45/48.95	43/49.27
POLY-3 PERCENT (g)	84.6%	93.3%	82.1%	91.9%	87.3%
TERMINAL (d)	28/33 (85%)	31/34 (91%)	25/33 (76%)	31/34 (91%)	26/32 (81%)
FIRST INCIDENCE	355	238	452	410	404
STATISTICAL TESTS					
POLY 3	P=0.563	P=0.134	P=0.480N	P=0.196	P=0.463
POLY 1.5	P=0.528	P=0.119	P=0.492N	P=0.191	P=0.424
POLY 6	P=0.547N	P=0.174	P=0.425N	P=0.220	P=0.537
COCH-ARM / FISHERS	P=0.456	P=0.117	P=0.402N	P=0.194	P=0.393
MAX-ISO-POLY-3	P=0.386	P=0.075	P=0.371N	P=0.118	P=0.348

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 02/10/2020

Time Report Requested: 17:07:48

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of tumor-bearing animals/Poly-3 number
- (d) Observed incidence at terminal kill.
- (e) Value of statistic cannot be computed.
- (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
- (g) Poly-3 adjusted lifetime tumor incidence.
- (h) Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
- (n) No statistics are calculated if all dose groups have fewer than two tumors.
- (I) Interim sacrifice
- (T) Terminal sacrifice
- # Tumor rates based on numbers of animals necropsied.
- * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
- ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
- N Indicates a negative trend for all tests
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***