

Experiment Number: 10987 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Dibutyl Phthalate
CAS Number: 84-74-2

Date Report Requested: 06/05/2018
Time Report Requested: 10:01:08
First Dose M/F: 08/17/10 / 08/16/10
Lab: BAT

Mice_Final Version 1

NTP Study Number: C10987
Lock Date: 11/26/2013
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
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.**

Liver

Lung

Ovary

Spleen

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF DIBUTYL PHTHALATE

MALE MICE

Organ

Liver
Lung

All Organs

Morphology

Hemangiosarcoma
Alveolar/Bronchiolar Adenoma
Alveolar/Bronchiolar Carcinoma
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma
Hemangiosarcoma
Hemangiosarcoma or Hemangioma

FEMALE MICE

Organ

Liver
Lung
Mammary Gland

Ovary

All Organs

Morphology

Hepatocellular Carcinoma or Hepatocellular Adenoma
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma
Alveolar/Bronchiolar Carcinoma
Carcinoma
Carcinoma or Adenoma
Fibroma, Fibroadenoma, Carcinoma, or Adenoma
Cystadenoma
Hemangiosarcoma
Hemangiosarcoma

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	3/48.76	4/47.43	3/46.94	2/46.63
POLY-3 PERCENT (g)	6.2%	8.4%	6.4%	4.3%
TERMINAL (d)	3/44 (7%)	4/40 (10%)	0/36 (0%)	2/43 (5%)
FIRST INCIDENCE	730 (T)	730 (T)	504	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.356N	P=0.485	P=0.644	P=0.520N
POLY 1.5	P=0.353N	P=0.490	P=0.650	P=0.516N
POLY 6	P=0.359N	P=0.477	P=0.637	P=0.525N
COCH-ARM / FISHERS	P=0.337N	P=0.500	P=0.661N	P=0.500N
MAX-ISO-POLY-3	P=0.450N	P=0.336	P=0.480	P=0.345N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	4/50 (8%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	4/48.76	4/47.43	3/46.94	2/46.63
POLY-3 PERCENT (g)	8.2%	8.4%	6.4%	4.3%
TERMINAL (d)	4/44 (9%)	4/40 (10%)	0/36 (0%)	2/43 (5%)
FIRST INCIDENCE	730 (T)	730 (T)	504	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.270N	P=0.628	P=0.521N	P=0.358N
POLY 1.5	P=0.268N	P=0.633	P=0.514N	P=0.354N
POLY 6	P=0.272N	P=0.620	P=0.529N	P=0.363N
COCH-ARM / FISHERS	P=0.254N	P=0.643N	P=0.500N	P=0.339N
MAX-ISO-POLY-3	P=0.365N	P=0.483	P=0.369N	P=0.223N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	5/50 (10%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/48.76	5/47.66	0/45.38	0/46.63
POLY-3 PERCENT (g)	6.2%	10.5%	0%	0%
TERMINAL (d)	3/44 (7%)	3/40 (8%)	0/36 (0%)	0/43 (0%)
FIRST INCIDENCE	730 (T)	701	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.036N*	P=0.344	P=0.132N	P=0.127N
POLY 1.5	P=0.035N*	P=0.348	P=0.127N	P=0.125N
POLY 6	P=0.036N*	P=0.339	P=0.139N	P=0.129N
COCH-ARM / FISHERS	P=0.036N*	P=0.357	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.036N*	P=0.224	P=0.049N*	P=0.045N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	18/50 (36%)	17/50 (34%)	22/50 (44%)	16/50 (32%)
POLY-3 RATE (b)	18/49.07	17/47.76	22/46.44	16/47.20
POLY-3 PERCENT (g)	36.7%	35.6%	47.4%	33.9%
TERMINAL (d)	16/44 (36%)	15/40 (38%)	19/36 (53%)	14/43 (33%)
FIRST INCIDENCE	666	673	551	624
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.411N	P=0.540N	P=0.197	P=0.471N
POLY 1.5	P=0.407N	P=0.526N	P=0.221	P=0.461N
POLY 6	P=0.413N	P=0.559N	P=0.170	P=0.482N
COCH-ARM / FISHERS	P=0.367N	P=0.500N	P=0.270	P=0.417N
MAX-ISO-POLY-3	P=0.449N	P=0.455N	P=0.150	P=0.389N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
OVERALL (a)	10/50 (20%)	10/50 (20%)	10/50 (20%)	16/50 (32%)
POLY-3 RATE (b)	10/49.57	10/48.08	10/46.84	16/47.79
POLY-3 PERCENT (g)	20.2%	20.8%	21.4%	33.5%
TERMINAL (d)	7/44 (16%)	7/40 (18%)	4/36 (11%)	12/43 (28%)
FIRST INCIDENCE	492	613	521	607
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.054	P=0.569	P=0.543	P=0.104
POLY 1.5	P=0.055	P=0.578	P=0.562	P=0.107
POLY 6	P=0.056	P=0.558	P=0.521	P=0.104
COCH-ARM / FISHERS	P=0.063	P=0.598N	P=0.598N	P=0.127
MAX-ISO-POLY-3	P=0.087	P=0.469	P=0.444	P=0.072
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	24/50 (48%)	22/50 (44%)	28/50 (56%)	26/50 (52%)
POLY-3 RATE (b)	24/49.81	22/48.20	28/47.32	26/48.17
POLY-3 PERCENT (g)	48.2%	45.7%	59.2%	54%
TERMINAL (d)	20/44 (46%)	18/40 (45%)	20/36 (56%)	21/43 (49%)
FIRST INCIDENCE	492	613	521	607
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.285	P=0.480N	P=0.189	P=0.356
POLY 1.5	P=0.282	P=0.461N	P=0.215	P=0.363
POLY 6	P=0.297	P=0.504N	P=0.162	P=0.357
COCH-ARM / FISHERS	P=0.325	P=0.421N	P=0.274	P=0.421
MAX-ISO-POLY-3	P=0.281	P=0.401N	P=0.144	P=0.288
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	24/50 (48%)	22/50 (44%)	28/50 (56%)	26/50 (52%)
POLY-3 RATE (b)	24/49.81	22/48.20	28/47.32	26/48.17
POLY-3 PERCENT (g)	48.2%	45.7%	59.2%	54%
TERMINAL (d)	20/44 (46%)	18/40 (45%)	20/36 (56%)	21/43 (49%)
FIRST INCIDENCE	492	613	521	607
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.285	P=0.480N	P=0.189	P=0.356
POLY 1.5	P=0.282	P=0.461N	P=0.215	P=0.363
POLY 6	P=0.297	P=0.504N	P=0.162	P=0.357
COCH-ARM / FISHERS	P=0.325	P=0.421N	P=0.274	P=0.421
MAX-ISO-POLY-3	P=0.281	P=0.401N	P=0.144	P=0.288
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	9/50 (18%)	15/50 (30%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	9/49.00	15/47.46	2/45.65	6/46.63
POLY-3 PERCENT (g)	18.4%	31.6%	4.4%	12.9%
TERMINAL (d)	8/44 (18%)	14/40 (35%)	1/36 (3%)	6/43 (14%)
FIRST INCIDENCE	666	723	659	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.093N	P=0.101	P=0.034N*	P=0.324N
POLY 1.5	P=0.090N	P=0.108	P=0.031N*	P=0.316N
POLY 6	P=0.095N	P=0.092	P=0.038N*	P=0.335N
COCH-ARM / FISHERS	P=0.087N	P=0.121	P=0.026N*	P=0.288N
MAX-ISO-POLY-3	P=0.027N*	P=0.068	P=0.019N*	P=0.237N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	3/48.81	4/47.66	4/45.54	0/46.63
POLY-3 PERCENT (g)	6.2%	8.4%	8.8%	0%
TERMINAL (d)	2/44 (5%)	3/40 (8%)	3/36 (8%)	0/43 (0%)
FIRST INCIDENCE	718	669	688	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.072N	P=0.487	P=0.462	P=0.127N
POLY 1.5	P=0.071N	P=0.491	P=0.476	P=0.126N
POLY 6	P=0.074N	P=0.481	P=0.447	P=0.130N
COCH-ARM / FISHERS	P=0.066N	P=0.500	P=0.500	P=0.121N
MAX-ISO-POLY-3	P=0.090N	P=0.338	P=0.320	P=0.045N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	11/50 (22%)	17/50 (34%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	11/49.05	17/47.69	6/45.81	6/46.63
POLY-3 PERCENT (g)	22.4%	35.7%	13.1%	12.9%
TERMINAL (d)	9/44 (21%)	15/40 (38%)	4/36 (11%)	6/43 (14%)
FIRST INCIDENCE	666	669	659	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.034N*	P=0.112	P=0.180N	P=0.170N
POLY 1.5	P=0.033N*	P=0.119	P=0.167N	P=0.163N
POLY 6	P=0.036N*	P=0.103	P=0.197N	P=0.179N
COCH-ARM / FISHERS	P=0.030N*	P=0.133	P=0.143N	P=0.143N
MAX-ISO-POLY-3	P=0.044N*	P=0.078	P=0.127N	P=0.116N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/48.76	0/47.43	0/45.38	0/46.63
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/44 (0%)	0/40 (0%)	0/36 (0%)	0/43 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/48.76	0/47.43	0/45.38	0/46.63
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/44 (0%)	0/40 (0%)	0/36 (0%)	0/43 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/48.76	0/47.43	0/45.38	0/46.63
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/44 (0%)	0/40 (0%)	0/36 (0%)	0/43 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/48.76	0/47.43	0/45.38	1/46.63
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/44 (0%)	0/40 (0%)	0/36 (0%)	1/43 (2%)
FIRST INCIDENCE	---	---	---	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/48.76	0/47.43	0/45.38	1/46.63
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/44 (0%)	0/40 (0%)	0/36 (0%)	1/43 (2%)
FIRST INCIDENCE	---	---	---	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Skin				
Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/48.76	0/47.43	0/45.38	1/46.63
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/44 (0%)	0/40 (0%)	0/36 (0%)	1/43 (2%)
FIRST INCIDENCE	---	---	---	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/48.76	1/47.43	2/45.38	0/46.63
POLY-3 PERCENT (g)	0%	2.1%	4.4%	0%
TERMINAL (d)	0/44 (0%)	1/40 (3%)	2/36 (6%)	0/43 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.515N	P=0.494	P=0.222	(e)
POLY 1.5	P=0.512N	P=0.496	P=0.227	(e)
POLY 6	P=0.519N	P=0.492	P=0.215	(e)
COCH-ARM / FISHERS	P=0.500N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.329	P=0.159	P=0.076	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	6/50 (12%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	3/48.76	6/47.66	2/45.38	0/46.63
POLY-3 PERCENT (g)	6.2%	12.6%	4.4%	0%
TERMINAL (d)	3/44 (7%)	4/40 (10%)	2/36 (6%)	0/43 (0%)
FIRST INCIDENCE	730 (T)	701	730 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.036N*	P=0.232	P=0.533N	P=0.127N
POLY 1.5	P=0.035N*	P=0.235	P=0.521N	P=0.125N
POLY 6	P=0.037N*	P=0.227	P=0.547N	P=0.129N
COCH-ARM / FISHERS	P=0.034N*	P=0.243	P=0.500N	P=0.121N
MAX-ISO-POLY-3	P=0.043N*	P=0.142	P=0.358N	P=0.045N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	6/50 (12%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	3/48.76	6/47.66	2/45.38	0/46.63
POLY-3 PERCENT (g)	6.2%	12.6%	4.4%	0%
TERMINAL (d)	3/44 (7%)	4/40 (10%)	2/36 (6%)	0/43 (0%)
FIRST INCIDENCE	730 (T)	701	730 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.036N*	P=0.232	P=0.533N	P=0.127N
POLY 1.5	P=0.035N*	P=0.235	P=0.521N	P=0.125N
POLY 6	P=0.037N*	P=0.227	P=0.547N	P=0.129N
COCH-ARM / FISHERS	P=0.034N*	P=0.243	P=0.500N	P=0.121N
MAX-ISO-POLY-3	P=0.043N*	P=0.142	P=0.358N	P=0.045N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/49.45	0/47.43	1/45.50	0/46.63
POLY-3 PERCENT (g)	4%	0%	2.2%	0%
TERMINAL (d)	1/44 (2%)	0/40 (0%)	0/36 (0%)	0/43 (0%)
FIRST INCIDENCE	492	---	701	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.276N	P=0.247N	P=0.529N	P=0.251N
POLY 1.5	P=0.277N	P=0.243N	P=0.519N	P=0.247N
POLY 6	P=0.275N	P=0.251N	P=0.541N	P=0.254N
COCH-ARM / FISHERS	P=0.276N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.097N	P=0.085N	P=0.313N	P=0.089N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	4/48.83	4/47.84	4/46.31	1/46.63
POLY-3 PERCENT (g)	8.2%	8.4%	8.6%	2.1%
TERMINAL (d)	3/44 (7%)	2/40 (5%)	1/36 (3%)	1/43 (2%)
FIRST INCIDENCE	712	652	616	730 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.132N	P=0.631	P=0.613	P=0.193N
POLY 1.5	P=0.130N	P=0.635	P=0.623	P=0.190N
POLY 6	P=0.135N	P=0.627	P=0.603	P=0.197N
COCH-ARM / FISHERS	P=0.120N	P=0.643N	P=0.643N	P=0.181N
MAX-ISO-POLY-3	P=0.193N	P=0.487	P=0.469	P=0.098N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	26/50 (52%)	28/50 (56%)	25/50 (50%)	22/50 (44%)
POLY-3 RATE (b)	26/49.07	28/47.79	25/47.37	22/47.20
POLY-3 PERCENT (g)	53%	58.6%	52.8%	46.6%
TERMINAL (d)	24/44 (55%)	25/40 (63%)	20/36 (56%)	20/43 (47%)
FIRST INCIDENCE	666	673	504	624
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.200N	P=0.363	P=0.573N	P=0.337N
POLY 1.5	P=0.197N	P=0.383	P=0.550N	P=0.325N
POLY 6	P=0.202N	P=0.335	P=0.563	P=0.350N
COCH-ARM / FISHERS	P=0.164N	P=0.421	P=0.500N	P=0.274N
MAX-ISO-POLY-3	P=0.305N	P=0.292	P=0.491N	P=0.271N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	19/50 (38%)	24/50 (48%)	24/50 (48%)	17/50 (34%)
POLY-3 RATE (b)	19/49.62	24/49.87	24/48.71	17/47.79
POLY-3 PERCENT (g)	38.3%	48.1%	49.3%	35.6%
TERMINAL (d)	15/44 (34%)	15/40 (38%)	12/36 (33%)	13/43 (30%)
FIRST INCIDENCE	492	307	504	607
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.240N	P=0.216	P=0.186	P=0.473N
POLY 1.5	P=0.231N	P=0.214	P=0.190	P=0.465N
POLY 6	P=0.245N	P=0.221	P=0.187	P=0.476N
COCH-ARM / FISHERS	P=0.184N	P=0.210	P=0.210	P=0.418N
MAX-ISO-POLY-3	P=0.283N	P=0.163	P=0.139	P=0.391N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	33/50 (66%)	36/50 (72%)	39/50 (78%)	32/50 (64%)
POLY-3 RATE (b)	33/49.86	36/49.87	39/49.04	32/48.17
POLY-3 PERCENT (g)	66.2%	72.2%	79.5%	66.4%
TERMINAL (d)	28/44 (64%)	27/40 (68%)	26/36 (72%)	27/43 (63%)
FIRST INCIDENCE	492	307	504	607
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.410N	P=0.334	P=0.102	P=0.574
POLY 1.5	P=0.396N	P=0.334	P=0.105	P=0.583N
POLY 6	P=0.412N	P=0.334	P=0.104	P=0.573
COCH-ARM / FISHERS	P=0.297N	P=0.333	P=0.133	P=0.500N
MAX-ISO-POLY-3	P=0.376	P=0.260	P=0.069	P=0.489
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	5/50 (10%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	3/47.22	5/46.93	2/47.62	4/48.89
POLY-3 PERCENT (g)	6.4%	10.7%	4.2%	8.2%
TERMINAL (d)	3/42 (7%)	4/42 (10%)	2/44 (5%)	4/47 (9%)
FIRST INCIDENCE	729 (T)	679	729 (T)	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.564	P=0.353	P=0.496N	P=0.519
POLY 1.5	P=0.555	P=0.354	P=0.498N	P=0.511
POLY 6	P=0.576	P=0.354	P=0.492N	P=0.530
COCH-ARM / FISHERS	P=0.542	P=0.357	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.535N	P=0.230	P=0.321N	P=0.367
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	6/50 (12%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	3/47.22	6/46.93	2/47.62	4/48.89
POLY-3 PERCENT (g)	6.4%	12.8%	4.2%	8.2%
TERMINAL (d)	3/42 (7%)	5/42 (12%)	2/44 (5%)	4/47 (9%)
FIRST INCIDENCE	729 (T)	679	729 (T)	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.561N	P=0.239	P=0.496N	P=0.519
POLY 1.5	P=0.570N	P=0.240	P=0.498N	P=0.511
POLY 6	P=0.550N	P=0.240	P=0.492N	P=0.530
COCH-ARM / FISHERS	P=0.582N	P=0.243	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.443N	P=0.145	P=0.321N	P=0.367
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/47.22	0/46.74	0/47.09	0/48.47
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/42 (0%)	0/42 (0%)	0/44 (0%)	0/47 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	6/50 (12%)	4/49 (8%)	6/49 (12%)
POLY-3 RATE (b)	3/47.34	6/47.31	4/47.09	6/48.55
POLY-3 PERCENT (g)	6.3%	12.7%	8.5%	12.4%
TERMINAL (d)	2/42 (5%)	4/42 (10%)	4/44 (9%)	5/47 (11%)
FIRST INCIDENCE	698	577	729 (T)	708
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.329	P=0.242	P=0.497	P=0.255
POLY 1.5	P=0.316	P=0.242	P=0.493	P=0.246
POLY 6	P=0.346	P=0.243	P=0.504	P=0.268
COCH-ARM / FISHERS	P=0.298	P=0.243	P=0.489	P=0.233
MAX-ISO-POLY-3	P=0.272	P=0.146	P=0.345	P=0.162
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/49 (2%)	4/49 (8%)
POLY-3 RATE (b)	1/47.22	2/47.35	1/47.09	4/48.47
POLY-3 PERCENT (g)	2.1%	4.2%	2.1%	8.3%
TERMINAL (d)	1/42 (2%)	1/42 (2%)	1/44 (2%)	4/47 (9%)
FIRST INCIDENCE	729 (T)	535	729 (T)	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.111	P=0.501	P=0.760	P=0.187
POLY 1.5	P=0.107	P=0.500	P=0.758	P=0.181
POLY 6	P=0.117	P=0.502	P=0.758N	P=0.195
COCH-ARM / FISHERS	P=0.102	P=0.500	P=0.747	P=0.175
MAX-ISO-POLY-3	P=0.114	P=0.282	P=0.498	P=0.093
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	8/50 (16%)	5/49 (10%)	10/49 (20%)
POLY-3 RATE (b)	4/47.34	8/47.91	5/47.09	10/48.55
POLY-3 PERCENT (g)	8.5%	16.7%	10.6%	20.6%
TERMINAL (d)	3/42 (7%)	5/42 (12%)	5/44 (11%)	9/47 (19%)
FIRST INCIDENCE	698	535	729 (T)	708
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.100	P=0.183	P=0.497	P=0.080
POLY 1.5	P=0.093	P=0.181	P=0.492	P=0.075
POLY 6	P=0.109	P=0.187	P=0.505	P=0.088
COCH-ARM / FISHERS	P=0.085	P=0.178	P=0.487	P=0.068
MAX-ISO-POLY-3	P=0.075	P=0.114	P=0.360	P=0.048*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	8/50 (16%)	5/49 (10%)	10/49 (20%)
POLY-3 RATE (b)	4/47.34	8/47.91	5/47.09	10/48.55
POLY-3 PERCENT (g)	8.5%	16.7%	10.6%	20.6%
TERMINAL (d)	3/42 (7%)	5/42 (12%)	5/44 (11%)	9/47 (19%)
FIRST INCIDENCE	698	535	729 (T)	708
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.100	P=0.183	P=0.497	P=0.080
POLY 1.5	P=0.093	P=0.181	P=0.492	P=0.075
POLY 6	P=0.109	P=0.187	P=0.505	P=0.088
COCH-ARM / FISHERS	P=0.085	P=0.178	P=0.487	P=0.068
MAX-ISO-POLY-3	P=0.075	P=0.114	P=0.360	P=0.048*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/49 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/47.22	0/46.74	2/47.09	2/48.89
POLY-3 PERCENT (g)	4.2%	0%	4.3%	4.1%
TERMINAL (d)	2/42 (5%)	0/42 (0%)	2/44 (5%)	2/47 (4%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.457	P=0.240N	P=0.693	P=0.681N
POLY 1.5	P=0.449	P=0.239N	P=0.689	P=0.686N
POLY 6	P=0.467	P=0.240N	P=0.689N	P=0.673N
COCH-ARM / FISHERS	P=0.438	P=0.247N	P=0.684	P=0.691N
MAX-ISO-POLY-3	P=0.462	P=0.078N	P=0.498	P=0.485N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/49 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/47.22	1/46.74	3/47.88	1/48.89
POLY-3 PERCENT (g)	0%	2.1%	6.3%	2.1%
TERMINAL (d)	0/42 (0%)	1/42 (2%)	1/44 (2%)	1/47 (2%)
FIRST INCIDENCE	---	729 (T)	448	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.569	P=0.498	P=0.121	P=0.507
POLY 1.5	P=0.559	P=0.499	P=0.119	P=0.504
POLY 6	P=0.582	P=0.498	P=0.125	P=0.511
COCH-ARM / FISHERS	P=0.547	P=0.500	P=0.117	P=0.500
MAX-ISO-POLY-3	P=0.172	P=0.159	P=0.041*	P=0.167
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	5/49 (10%)	3/50 (6%)
POLY-3 RATE (b)	2/47.22	1/46.74	5/47.88	3/48.89
POLY-3 PERCENT (g)	4.2%	2.1%	10.4%	6.1%
TERMINAL (d)	2/42 (5%)	1/42 (2%)	3/44 (7%)	3/47 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	448	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.404	P=0.504N	P=0.222	P=0.516
POLY 1.5	P=0.392	P=0.502N	P=0.217	P=0.509
POLY 6	P=0.419	P=0.504N	P=0.230	P=0.525
COCH-ARM / FISHERS	P=0.376	P=0.500N	P=0.210	P=0.500
MAX-ISO-POLY-3	P=0.239	P=0.285N	P=0.127	P=0.341
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/47.22	0/46.74	0/47.62	0/48.89
POLY-3 PERCENT (g)	6.4%	0%	0%	0%
TERMINAL (d)	3/42 (7%)	0/42 (0%)	0/44 (0%)	0/47 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.142N	P=0.121N	P=0.117N	P=0.113N
POLY 1.5	P=0.143N	P=0.120N	P=0.118N	P=0.116N
POLY 6	P=0.141N	P=0.121N	P=0.116N	P=0.109N
COCH-ARM / FISHERS	P=0.149N	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.010N**	P=0.040N*	P=0.038N*	P=0.038N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/47.22	0/46.74	0/47.62	0/48.89
POLY-3 PERCENT (g)	8.5%	0%	0%	0%
TERMINAL (d)	4/42 (10%)	0/42 (0%)	0/44 (0%)	0/47 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.080N	P=0.062N	P=0.059N	P=0.056N
POLY 1.5	P=0.081N	P=0.061N	P=0.060N	P=0.058N
POLY 6	P=0.079N	P=0.062N	P=0.058N	P=0.054N
COCH-ARM / FISHERS	P=0.087N	P=0.059N	P=0.059N	P=0.059N
MAX-ISO-POLY-3	P=0.003N**	P=0.020N*	P=0.019N*	P=0.019N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	4/47.22	0/46.74	0/47.62	1/48.89
POLY-3 PERCENT (g)	8.5%	0%	0%	2.1%
TERMINAL (d)	4/42 (10%)	0/42 (0%)	0/44 (0%)	1/47 (2%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.311N	P=0.062N	P=0.059N	P=0.169N
POLY 1.5	P=0.314N	P=0.061N	P=0.060N	P=0.173N
POLY 6	P=0.308N	P=0.062N	P=0.058N	P=0.163N
COCH-ARM / FISHERS	P=0.321N	P=0.059N	P=0.059N	P=0.181N
MAX-ISO-POLY-3	P=0.014N*	P=0.020N*	P=0.019N*	P=0.081N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Ovary				
Cystadenoma				
TUMOR RATES				
OVERALL (a)	3/48 (6%)	2/50 (4%)	4/48 (8%)	0/50 (0%)
POLY-3 RATE (b)	3/45.22	2/46.74	4/46.09	0/48.89
POLY-3 PERCENT (g)	6.6%	4.3%	8.7%	0%
TERMINAL (d)	3/40 (8%)	2/42 (5%)	4/43 (9%)	0/47 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.095N	P=0.485N	P=0.510	P=0.105N
POLY 1.5	P=0.100N	P=0.484N	P=0.505	P=0.108N
POLY 6	P=0.090N	P=0.485N	P=0.519	P=0.102N
COCH-ARM / FISHERS	P=0.106N	P=0.480N	P=0.500	P=0.114N
MAX-ISO-POLY-3	P=0.115N	P=0.312N	P=0.358	P=0.037N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
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 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Ovary				
Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	2/48 (4%)	0/50 (0%)	0/48 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.22	0/46.74	0/46.09	0/48.89
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/40 (5%)	0/42 (0%)	0/43 (0%)	0/47 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.255N	P=0.230N	P=0.233N	P=0.220N
POLY 1.5	P=0.256N	P=0.229N	P=0.235N	P=0.224N
POLY 6	P=0.254N	P=0.230N	P=0.229N	P=0.215N
COCH-ARM / FISHERS	P=0.258N	P=0.237N	P=0.247N	P=0.237N
MAX-ISO-POLY-3	P=0.033N*	P=0.074N	P=0.076N	P=0.074N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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 CAS Number: 84-74-2

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/47.73	2/47.22	1/47.62	1/48.97
POLY-3 PERCENT (g)	4.2%	4.2%	2.1%	2%
TERMINAL (d)	0/42 (0%)	1/42 (2%)	1/44 (2%)	0/47 (0%)
FIRST INCIDENCE	597	586	729 (T)	708
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.386N	P=0.690	P=0.501N	P=0.491N
POLY 1.5	P=0.390N	P=0.691	P=0.501N	P=0.495N
POLY 6	P=0.381N	P=0.689	P=0.500N	P=0.486N
COCH-ARM / FISHERS	P=0.395N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.440N	P=0.495	P=0.282N	P=0.276N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
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 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/47.73	2/47.22	1/47.62	1/48.97
POLY-3 PERCENT (g)	4.2%	4.2%	2.1%	2%
TERMINAL (d)	0/42 (0%)	1/42 (2%)	1/44 (2%)	0/47 (0%)
FIRST INCIDENCE	597	586	729 (T)	708
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.386N	P=0.690	P=0.501N	P=0.491N
POLY 1.5	P=0.390N	P=0.691	P=0.501N	P=0.495N
POLY 6	P=0.381N	P=0.689	P=0.500N	P=0.486N
COCH-ARM / FISHERS	P=0.395N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.440N	P=0.495	P=0.282N	P=0.276N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Skin				
Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/47.73	0/46.74	0/47.62	1/48.97
POLY-3 PERCENT (g)	4.2%	0%	0%	2%
TERMINAL (d)	0/42 (0%)	0/42 (0%)	0/44 (0%)	0/47 (0%)
FIRST INCIDENCE	597	---	---	708
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.665N	P=0.242N	P=0.238N	P=0.491N
POLY 1.5	P=0.668N	P=0.240N	P=0.238N	P=0.495N
POLY 6	P=0.662N	P=0.244N	P=0.237N	P=0.486N
COCH-ARM / FISHERS	P=0.673N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.138N	P=0.081N	P=0.077N	P=0.276N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
Spleen				
Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/47.22	0/46.74	0/47.09	1/48.47
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/42 (0%)	0/42 (0%)	0/44 (0%)	1/47 (2%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
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 Species/Strain: MICE/B6C3F1/N

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	3/47.22	0/46.74	0/47.62	2/49.47
POLY-3 PERCENT (g)	6.4%	0%	0%	4%
TERMINAL (d)	3/42 (7%)	0/42 (0%)	0/44 (0%)	1/47 (2%)
FIRST INCIDENCE	729 (T)	---	---	547
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.562	P=0.121N	P=0.117N	P=0.479N
POLY 1.5	P=0.555	P=0.120N	P=0.118N	P=0.488N
POLY 6	P=0.569	P=0.121N	P=0.116N	P=0.467N
COCH-ARM / FISHERS	P=0.546	P=0.121N	P=0.121N	P=0.500N
MAX-ISO-POLY-3	P=0.106N	P=0.040N*	P=0.038N*	P=0.309N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	4/47.52	1/46.74	1/47.62	2/49.47
POLY-3 PERCENT (g)	8.4%	2.1%	2.1%	4%
TERMINAL (d)	3/42 (7%)	1/42 (2%)	1/44 (2%)	1/47 (2%)
FIRST INCIDENCE	647	729 (T)	729 (T)	547
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.463N	P=0.184N	P=0.178N	P=0.319N
POLY 1.5	P=0.471N	P=0.182N	P=0.179N	P=0.327N
POLY 6	P=0.454N	P=0.186N	P=0.177N	P=0.310N
COCH-ARM / FISHERS	P=0.482N	P=0.181N	P=0.181N	P=0.339N
MAX-ISO-POLY-3	P=0.139N	P=0.089N	P=0.084N	P=0.192N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/47.22	1/47.40	1/47.62	1/49.34
POLY-3 PERCENT (g)	2.1%	2.1%	2.1%	2%
TERMINAL (d)	1/42 (2%)	0/42 (0%)	1/44 (2%)	0/47 (0%)
FIRST INCIDENCE	729 (T)	508	729 (T)	598
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10987 - 02
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
OVERALL (a)	11/50 (22%)	8/50 (16%)	9/50 (18%)	6/50 (12%)
POLY-3 RATE (b)	11/47.95	8/46.93	9/48.27	6/48.89
POLY-3 PERCENT (g)	22.9%	17.1%	18.7%	12.3%
TERMINAL (d)	9/42 (21%)	7/42 (17%)	7/44 (16%)	6/47 (13%)
FIRST INCIDENCE	533	681	585	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.144N	P=0.323N	P=0.395N	P=0.133N
POLY 1.5	P=0.151N	P=0.317N	P=0.400N	P=0.138N
POLY 6	P=0.134N	P=0.328N	P=0.385N	P=0.126N
COCH-ARM / FISHERS	P=0.162N	P=0.306N	P=0.402N	P=0.143N
MAX-ISO-POLY-3	P=0.140N	P=0.241N	P=0.303N	P=0.086N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	13/50 (26%)	16/50 (32%)	12/50 (24%)	13/50 (26%)
POLY-3 RATE (b)	13/47.65	16/47.68	12/47.62	13/48.97
POLY-3 PERCENT (g)	27.3%	33.6%	25.2%	26.5%
TERMINAL (d)	11/42 (26%)	12/42 (29%)	12/44 (27%)	12/47 (26%)
FIRST INCIDENCE	647	577	729 (T)	708
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.405N	P=0.329	P=0.501N	P=0.558N
POLY 1.5	P=0.421N	P=0.329	P=0.502N	P=0.572N
POLY 6	P=0.386N	P=0.335	P=0.498N	P=0.540N
COCH-ARM / FISHERS	P=0.443N	P=0.330	P=0.500N	P=0.590N
MAX-ISO-POLY-3	P=0.499N	P=0.254	P=0.407N	P=0.467N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	19/50 (38%)	19/50 (38%)	16/50 (32%)	17/50 (34%)
POLY-3 RATE (b)	19/48.85	19/50.00	16/49.53	17/50.00
POLY-3 PERCENT (g)	38.9%	38%	32.3%	34%
TERMINAL (d)	14/42 (33%)	11/42 (26%)	11/44 (25%)	14/47 (30%)
FIRST INCIDENCE	533	508	448	547
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.361N	P=0.545N	P=0.319N	P=0.384N
POLY 1.5	P=0.370N	P=0.561N	P=0.328N	P=0.399N
POLY 6	P=0.349N	P=0.525N	P=0.308N	P=0.365N
COCH-ARM / FISHERS	P=0.381N	P=0.582N	P=0.338N	P=0.418N
MAX-ISO-POLY-3	P=0.450N	P=0.463N	P=0.250N	P=0.310N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10987 - 02
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: MICE/B6C3F1/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 06/05/2018
 Time Report Requested: 10:01:08
 First Dose M/F: 08/17/10 / 08/16/10
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 ppm	1000 ppm	3000 ppm	10000 ppm
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	28/50 (56%)	28/50 (56%)	27/50 (54%)	26/50 (52%)
POLY-3 RATE (b)	28/49.15	28/50.00	27/49.53	26/50.00
POLY-3 PERCENT (g)	57%	56%	54.5%	52%
TERMINAL (d)	22/42 (52%)	20/42 (48%)	22/44 (50%)	23/47 (49%)
FIRST INCIDENCE	533	508	448	547
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.348N	P=0.542N	P=0.483N	P=0.385N
POLY 1.5	P=0.358N	P=0.557N	P=0.490N	P=0.400N
POLY 6	P=0.336N	P=0.522N	P=0.474N	P=0.366N
COCH-ARM / FISHERS	P=0.372N	P=0.580N	P=0.500N	P=0.421N
MAX-ISO-POLY-3	P=0.499N	P=0.461N	P=0.402N	P=0.312N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10987 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

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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 ***