

TDMS No. 99017 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

F1_M3

Date Report Requested: 10/23/2008

Time Report Requested: 13:20:12

First Dose M/F: 08/18/03 / 08/18/03

Lab: BNW

C Number: C99017
Lock Date: 08/01/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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HISTORICAL CONTROL STUDIES From October 2007 Report

SAME ROUTE

- 96011-06 -- Cumene (INHALATION AIR)
- 88004-06 -- Divinylbenzene (INHALATION AIR)
- 97006-02 -- Methyl isobutyl ketone (INHALATION AIR)
- 88006-04 -- alpha-Methylstyrene (INHALATION AIR)
- 97008-06 -- Propargyl alcohol (INHALATION AIR)
- 96001-06 -- Stoddard solvent (type IIC) (INHALATION AIR)

ALL ROUTES

- 88138-04 -- Benzophenone (ORAL FEED)
- 99027-04 -- Chromium picolinate monohydrate (ORAL FEED)
- 05174-06 -- Cresols (ORAL FEED)
- 96011-06 -- Cumene (INHALATION AIR)
- 97003-08 -- 1,2-Dibromo-2,4-dicyanobutane (SKIN ETHANOL)
- 93020-08 -- Diisopropylcarbodiimide (SKIN ETHANOL)
- 88004-06 -- Divinylbenzene (INHALATION AIR)
- 88123-07 -- Formamide (GAVAGE WATER)
- 95011-06 -- 5-(Hydroxymethyl)-2-furfural (GAVAGE WATER)
- 88105-04 -- Isoeugenol (GAVAGE CORN OIL)
- 97006-02 -- Methyl isobutyl ketone (INHALATION AIR)
- 91005-08 -- Methylene blue trihydrate (GAVAGE METHYLCELLULOSE)
- 92013-06 -- 4-Methylimidazole (ORAL FEED)
- 88006-04 -- alpha-Methylstyrene (INHALATION AIR)
- 99023-04 -- beta-Myrcene (GAVAGE CORN OIL)
- 97008-06 -- Propargyl alcohol (INHALATION AIR)
- 20114-06 -- Sodium dichromate dihydrate (VI) (ORAL WATER)
- 96001-06 -- Stoddard solvent (type IIC) (INHALATION AIR)
- 05109-14 -- Triethanolamine (SKIN ACETONE)

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**HISTORICAL CONTROL STUDIES
From October 2007 Report**

- 96019-06 -- Water disinfection byproducts (Bromochloroacetic acid) (ORAL WATER)
- 96018-04 -- Water disinfection byproducts (Bromodichloromethane) (ORAL WATER)
- 96017-06 -- Water disinfection byproducts (Dibromoacetic acid) (ORAL WATER)
- 96015-06 -- Water disinfection byproducts (Dibromoacetonitrile) (ORAL WATER)
- 96010-04 -- Water disinfection byproducts (Sodium chlorate) (ORAL WATER)

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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
Bone Marrow
Brain
Epididymis
Gallbladder
Heart
Islets, Pancreatic
Kidney
Liver
Lung
Ovary
Pancreas
Pituitary Gland
Salivary Glands
Spleen
Thyroid Gland
Urinary Bladder

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

MALE MICE

Organ

Harderian Gland
Stomach, Forestomach

Morphology

Carcinoma or Adenoma
Squamous Cell Carcinoma

FEMALE MICE

Organ

Harderian Gland

Liver

Mammary Gland

Ovary

Spleen

All Organs

Morphology

Adenoma
Carcinoma or Adenoma
Hepatocellular Carcinoma or Hepatocellular Adenoma
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma
Carcinoma
Fibroma, Fibroadenoma, Carcinoma, or Adenoma
Cystadenoma
Hemangiosarcoma
Hemangiosarcoma
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or
Undifferentiated Cell Type

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Adrenal Cortex
Adenoma**

TUMOR RATES

OVERALL (a)	6/50 (12%)	4/50 (8%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	6/43.3	4/46.17	6/43.61	2/45.33
POLY-3 PERCENT (g)	13.9%	8.7%	13.8%	4.4%
TERMINAL (d)	5/31 (16%)	3/38 (8%)	5/32 (16%)	2/37 (5%)
FIRST INCIDENCE	606	610	610	729 (T)
HC TUMORS SAME RTE	11/297 (4%)			
HC TUMORS ALL RTES	74/1092 (7%)			

STATISTICAL TESTS

POLY 3	P=0.127N	P=0.329N	P=0.617N	P=0.118N
POLY 1.5	P=0.132N	P=0.347N	P=0.619N	P=0.125N
POLY 6	P=0.121N	P=0.305N	P=0.610N	P=0.108N
COCH-ARM / FISHERS	P=0.137N	P=0.370N	P=0.620N	P=0.134N
MAX-ISO-POLY-3	P=0.118N	P=0.226N	P=0.494N	P=0.063N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Adrenal Medulla
Pheochromocytoma: Benign, Complex, Malignant, NOS**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/42.87	0/45.75	0/43.2	1/45.33
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	0/32 (0%)	1/37 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME RTE	3/294 (1%)			
HC TUMORS ALL RTES	8/1085 (1%)			

STATISTICAL TESTS

POLY 3	P=0.204	(e)	(e)	P=0.511
POLY 1.5	P=0.202	(e)	(e)	P=0.506
POLY 6	P=0.207	(e)	(e)	P=0.518
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.143	(e)	(e)	P=0.172
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Bone Marrow
Hemangiosarcoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.22	2/45.8	0/43.2	0/45.33
POLY-3 PERCENT (g)	4.6%	4.4%	0%	0%
TERMINAL (d)	1/31 (3%)	1/38 (3%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	632	718	---	---
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	7/1092 (1%)			

STATISTICAL TESTS

POLY 3	P=0.086N	P=0.673N	P=0.237N	P=0.227N
POLY 1.5	P=0.087N	P=0.682N	P=0.238N	P=0.231N
POLY 6	P=0.084N	P=0.660N	P=0.236N	P=0.220N
COCH-ARM / FISHERS	P=0.088N	P=0.691N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.120N	P=0.476N	P=0.076N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	6/50 (12%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	4/42.87	6/46.34	2/43.29	1/45.38
POLY-3 PERCENT (g)	9.3%	13%	4.6%	2.2%
TERMINAL (d)	4/31 (13%)	5/38 (13%)	1/32 (3%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	541	705	715
HC TUMORS SAME RTE	38/300 (13%)			
HC TUMORS ALL RTES	143/1099 (13%)			

STATISTICAL TESTS

POLY 3	P=0.059N	P=0.419	P=0.332N	P=0.161N
POLY 1.5	P=0.063N	P=0.397	P=0.335N	P=0.169N
POLY 6	P=0.054N	P=0.450	P=0.325N	P=0.150N
COCH-ARM / FISHERS	P=0.068N	P=0.370	P=0.339N	P=0.181N
MAX-ISO-POLY-3	P=0.089N	P=0.302	P=0.197N	P=0.079N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	7/50 (14%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	4/42.87	7/45.75	1/43.2	3/45.33
POLY-3 PERCENT (g)	9.3%	15.3%	2.3%	6.6%
TERMINAL (d)	4/31 (13%)	7/38 (18%)	1/32 (3%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
HC TUMORS SAME RTE	11/300 (4%)			
HC TUMORS ALL RTES	29/1099 (3%)			

STATISTICAL TESTS

POLY 3	P=0.206N	P=0.299	P=0.176N	P=0.470N
POLY 1.5	P=0.215N	P=0.282	P=0.178N	P=0.484N
POLY 6	P=0.193N	P=0.324	P=0.172N	P=0.449N
COCH-ARM / FISHERS	P=0.227N	P=0.262	P=0.181N	P=0.500N
MAX-ISO-POLY-3	P=0.153N	P=0.206	P=0.082N	P=0.324N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	13/50 (26%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	8/42.87	13/46.34	3/43.29	4/45.38
POLY-3 PERCENT (g)	18.7%	28.1%	6.9%	8.8%
TERMINAL (d)	8/31 (26%)	12/38 (32%)	2/32 (6%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	541	705	715
HC TUMORS SAME RTE	48/300 (16%)			
HC TUMORS ALL RTES	166/1099 (15%)			

STATISTICAL TESTS

POLY 3	P=0.027N*	P=0.212	P=0.093N	P=0.149N
POLY 1.5	P=0.031N*	P=0.189	P=0.097N	P=0.162N
POLY 6	P=0.023N*	P=0.249	P=0.088N	P=0.131N
COCH-ARM / FISHERS	P=0.039N*	P=0.163	P=0.100N	P=0.178N
MAX-ISO-POLY-3	P=0.035N*	P=0.156	P=0.050N*	P=0.094N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Intestine Small: Jejunum Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.98	0/45.75	0/43.2	1/45.37
POLY-3 PERCENT (g)	4.7%	0%	0%	2.2%
TERMINAL (d)	1/31 (3%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	702	---	---	717
HC TUMORS SAME RTE	5/300 (2%)			
HC TUMORS ALL RTES	13/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.473N	P=0.223N	P=0.236N	P=0.481N
POLY 1.5	P=0.468N	P=0.230N	P=0.237N	P=0.490N
POLY 6	P=0.480N	P=0.215N	P=0.234N	P=0.469N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.131N	P=0.076N	P=0.076N	P=0.270N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Intestine Small: Site Unspecified
Carcinoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.98	1/45.75	0/43.2	1/45.37
POLY-3 PERCENT (g)	4.7%	2.2%	0%	2.2%
TERMINAL (d)	1/31 (3%)	1/38 (3%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	702	729 (T)	---	717
HC TUMORS SAME RTE	5/300 (2%)			
HC TUMORS ALL RTES	17/1099 (2%)			

STATISTICAL TESTS

POLY 3	P=0.372N	P=0.478N	P=0.236N	P=0.481N
POLY 1.5	P=0.371N	P=0.488N	P=0.237N	P=0.490N
POLY 6	P=0.373N	P=0.465N	P=0.234N	P=0.469N
COCH-ARM / FISHERS	P=0.369N	P=0.500N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.225N	P=0.268N	P=0.076N	P=0.270N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
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 Species/Strain: MICE/B6C3F1

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 Diethylamine
 CAS Number: 109-89-7

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 Lab: BNW

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Islets, Pancreatic
 Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/43.36	1/45.75	0/42.77	1/45.33
POLY-3 PERCENT (g)	4.6%	2.2%	0%	2.2%
TERMINAL (d)	1/31 (3%)	1/38 (3%)	0/32 (0%)	1/37 (3%)
FIRST INCIDENCE	584	729 (T)	---	729 (T)
HC TUMORS SAME RTE	3/295 (1%)			
HC TUMORS ALL RTES	11/1086 (1%)			

STATISTICAL TESTS

POLY 3	P=0.372N	P=0.481N	P=0.240N	P=0.485N
POLY 1.5	P=0.372N	P=0.490N	P=0.241N	P=0.492N
POLY 6	P=0.373N	P=0.469N	P=0.238N	P=0.474N
COCH-ARM / FISHERS	P=0.370N	P=0.500N	P=0.253N	P=0.500N
MAX-ISO-POLY-3	P=0.229N	P=0.270N	P=0.078N	P=0.272N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Islets, Pancreatic
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/49 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/43.36	1/45.75	0/42.77	2/45.33
POLY-3 PERCENT (g)	4.6%	2.2%	0%	4.4%
TERMINAL (d)	1/31 (3%)	1/38 (3%)	0/32 (0%)	2/37 (5%)
FIRST INCIDENCE	584	729 (T)	---	729 (T)
HC TUMORS SAME RTE	4/295 (1%)			
HC TUMORS ALL RTES	12/1086 (1%)			

STATISTICAL TESTS

POLY 3	P=0.592	P=0.481N	P=0.240N	P=0.678N
POLY 1.5	P=0.590	P=0.490N	P=0.241N	P=0.685N
POLY 6	P=0.594	P=0.469N	P=0.238N	P=0.667N
COCH-ARM / FISHERS	P=0.589	P=0.500N	P=0.253N	P=0.691N
MAX-ISO-POLY-3	P=0.413N	P=0.270N	P=0.078N	P=0.481N
HISTCONT SAME RTE	P=0.190	P=0.479	(e)	P=0.142
HISTCONT ALL RTES	P=0.178	P=0.429	(e)	P=0.120

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Kidney: Renal Tubule
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.87	0/45.75	2/42.67	0/45.33
POLY-3 PERCENT (g)	0%	0%	4.7%	0%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	2/32 (6%)	0/37 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	14/1094 (1%)			

STATISTICAL TESTS

POLY 3	P=0.624	(e)	P=0.236	(e)
POLY 1.5	P=0.615	(e)	P=0.234	(e)
POLY 6	P=0.637	(e)	P=0.239	(e)
COCH-ARM / FISHERS	P=0.603	(e)	P=0.242	(e)
MAX-ISO-POLY-3	P=0.262	(e)	P=0.076	(e)
HISTCONT SAME RTE	P=0.315	(e)	P=0.046*	(e)
HISTCONT ALL RTES	P=0.303	(e)	P=0.086	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
Hemangiosarcoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/42.87	1/45.93	4/44	1/45.33
POLY-3 PERCENT (g)	4.7%	2.2%	9.1%	2.2%
TERMINAL (d)	2/31 (7%)	0/38 (0%)	1/32 (3%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	684	590	729 (T)
HC TUMORS SAME RTE	10/299 (3%)			
HC TUMORS ALL RTES	29/1096 (3%)			

STATISTICAL TESTS

POLY 3	P=0.480N	P=0.476N	P=0.349	P=0.481N
POLY 1.5	P=0.487N	P=0.487N	P=0.343	P=0.489N
POLY 6	P=0.471N	P=0.460N	P=0.360	P=0.468N
COCH-ARM / FISHERS	P=0.495N	P=0.500N	P=0.339	P=0.500N
MAX-ISO-POLY-3	P=0.405N	P=0.267N	P=0.212	P=0.270N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

Liver
 Hepatocellular Adenoma

TUMOR RATES

OVERALL (a)	28/50 (56%)	29/50 (58%)	28/50 (56%)	31/50 (62%)
POLY-3 RATE (b)	28/46.08	29/47.71	28/44.28	31/48.75
POLY-3 PERCENT (g)	60.8%	60.8%	63.2%	63.6%
TERMINAL (d)	21/31 (68%)	23/38 (61%)	25/32 (78%)	23/37 (62%)
FIRST INCIDENCE	491	484	551	442
HC TUMORS SAME RTE	141/299 (47%)			
HC TUMORS ALL RTES	537/1096 (49%)			

STATISTICAL TESTS

POLY 3	P=0.408	P=0.585	P=0.490	P=0.471
POLY 1.5	P=0.365	P=0.547	P=0.527	P=0.414
POLY 6	P=0.468	P=0.535N	P=0.444	P=0.548
COCH-ARM / FISHERS	P=0.313	P=0.500	P=0.580N	P=0.342
MAX-ISO-POLY-3	P=0.607	P=0.499	P=0.401	P=0.388
HISTCONT SAME RTE	P=0.133	P=0.303	P=0.265	P=0.232
HISTCONT ALL RTES	P=0.222	P=0.399	P=0.358	P=0.324

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
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Date Report Requested: 10/23/2008
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
 Hepatocellular Carcinoma**

TUMOR RATES

OVERALL (a)	20/50 (40%)	17/50 (34%)	14/50 (28%)	20/50 (40%)
POLY-3 RATE (b)	20/46.58	17/47.91	14/45.42	20/47.65
POLY-3 PERCENT (g)	42.9%	35.5%	30.8%	42%
TERMINAL (d)	10/31 (32%)	11/38 (29%)	8/32 (25%)	12/37 (32%)
FIRST INCIDENCE	491	536	484	563
HC TUMORS SAME RTE	74/299 (25%)			
HC TUMORS ALL RTES	313/1096 (29%)			

STATISTICAL TESTS

POLY 3	P=0.522	P=0.297N	P=0.159N	P=0.545N
POLY 1.5	P=0.513	P=0.317N	P=0.155N	P=0.564N
POLY 6	P=0.541	P=0.268N	P=0.162N	P=0.510N
COCH-ARM / FISHERS	P=0.509	P=0.339N	P=0.146N	P=0.581N
MAX-ISO-POLY-3	P=0.404N	P=0.232N	P=0.115N	P=0.461N
HISTCONT SAME RTE	P=0.050*	P=0.235	P=0.420	P=0.112
HISTCONT ALL RTES	P=0.159	P=0.397	P=0.591	P=0.191

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
Hepatocellular Carcinoma or Hepatoblastoma**

TUMOR RATES

OVERALL (a)	20/50 (40%)	17/50 (34%)	14/50 (28%)	20/50 (40%)
POLY-3 RATE (b)	20/46.58	17/47.91	14/45.42	20/47.65
POLY-3 PERCENT (g)	42.9%	35.5%	30.8%	42%
TERMINAL (d)	10/31 (32%)	11/38 (29%)	8/32 (25%)	12/37 (32%)
FIRST INCIDENCE	491	536	484	563
HC TUMORS SAME RTE	75/299 (25%)			
HC TUMORS ALL RTES	342/1096 (31%)			

STATISTICAL TESTS

POLY 3	P=0.522	P=0.297N	P=0.159N	P=0.545N
POLY 1.5	P=0.513	P=0.317N	P=0.155N	P=0.564N
POLY 6	P=0.541	P=0.268N	P=0.162N	P=0.510N
COCH-ARM / FISHERS	P=0.509	P=0.339N	P=0.146N	P=0.581N
MAX-ISO-POLY-3	P=0.404N	P=0.232N	P=0.115N	P=0.461N
HISTCONT SAME RTE	P=0.054	P=0.244	P=0.433	P=0.115
HISTCONT ALL RTES	P=0.391	P=0.521	P=1.000	P=0.302

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
Hepatocellular Carcinoma or Hepatocellular Adenoma**

TUMOR RATES

OVERALL (a)	40/50 (80%)	37/50 (74%)	36/50 (72%)	38/50 (76%)
POLY-3 RATE (b)	40/48.12	37/49.04	36/46.5	38/49.81
POLY-3 PERCENT (g)	83.1%	75.5%	77.4%	76.3%
TERMINAL (d)	26/31 (84%)	27/38 (71%)	27/32 (84%)	26/37 (70%)
FIRST INCIDENCE	491	484	484	442
HC TUMORS SAME RTE	185/299 (62%)			
HC TUMORS ALL RTES	719/1096 (66%)			

STATISTICAL TESTS

POLY 3	P=0.302N	P=0.242N	P=0.322N	P=0.274N
POLY 1.5	P=0.346N	P=0.274N	P=0.288N	P=0.329N
POLY 6	P=0.247N	P=0.199N	P=0.364N	P=0.208N
COCH-ARM / FISHERS	P=0.402N	P=0.318N	P=0.241N	P=0.405N
MAX-ISO-POLY-3	P=0.330N	P=0.172N	P=0.235N	P=0.201N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma**

TUMOR RATES

OVERALL (a)	40/50 (80%)	37/50 (74%)	36/50 (72%)	38/50 (76%)
POLY-3 RATE (b)	40/48.12	37/49.04	36/46.5	38/49.81
POLY-3 PERCENT (g)	83.1%	75.5%	77.4%	76.3%
TERMINAL (d)	26/31 (84%)	27/38 (71%)	27/32 (84%)	26/37 (70%)
FIRST INCIDENCE	491	484	484	442
HC TUMORS SAME RTE	186/299 (62%)			
HC TUMORS ALL RTES	730/1096 (67%)			

STATISTICAL TESTS

POLY 3	P=0.302N	P=0.242N	P=0.322N	P=0.274N
POLY 1.5	P=0.346N	P=0.274N	P=0.288N	P=0.329N
POLY 6	P=0.247N	P=0.199N	P=0.364N	P=0.208N
COCH-ARM / FISHERS	P=0.402N	P=0.318N	P=0.241N	P=0.405N
MAX-ISO-POLY-3	P=0.330N	P=0.172N	P=0.235N	P=0.201N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Lung
Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	4/50 (8%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	4/42.87	4/46.54	5/44.78	3/45.94
POLY-3 PERCENT (g)	9.3%	8.6%	11.2%	6.5%
TERMINAL (d)	4/31 (13%)	2/38 (5%)	2/32 (6%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	484	442	554
HC TUMORS SAME RTE	58/299 (19%)			
HC TUMORS ALL RTES	198/1098 (18%)			

STATISTICAL TESTS

POLY 3	P=0.400N	P=0.598N	P=0.527	P=0.462N
POLY 1.5	P=0.413N	P=0.617N	P=0.515	P=0.479N
POLY 6	P=0.382N	P=0.570N	P=0.545	P=0.438N
COCH-ARM / FISHERS	P=0.429N	P=0.643N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.493N	P=0.452N	P=0.390	P=0.319N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Lung
Alveolar/Bronchiolar Carcinoma**

TUMOR RATES

OVERALL (a)	12/50 (24%)	10/50 (20%)	10/50 (20%)	9/50 (18%)
POLY-3 RATE (b)	12/45.28	10/46.53	10/44.17	9/45.94
POLY-3 PERCENT (g)	26.5%	21.5%	22.6%	19.6%
TERMINAL (d)	6/31 (19%)	8/38 (21%)	7/32 (22%)	7/37 (19%)
FIRST INCIDENCE	503	561	506	555
HC TUMORS SAME RTE	38/299 (13%)			
HC TUMORS ALL RTES	109/1098 (10%)			

STATISTICAL TESTS

POLY 3	P=0.283N	P=0.375N	P=0.429N	P=0.296N
POLY 1.5	P=0.285N	P=0.389N	P=0.420N	P=0.304N
POLY 6	P=0.280N	P=0.357N	P=0.440N	P=0.286N
COCH-ARM / FISHERS	P=0.287N	P=0.405N	P=0.405N	P=0.312N
MAX-ISO-POLY-3	P=0.350N	P=0.290N	P=0.337N	P=0.218N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Lung
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	15/50 (30%)	14/50 (28%)	14/50 (28%)	12/50 (24%)
POLY-3 RATE (b)	15/45.28	14/47.32	14/45.76	12/46.55
POLY-3 PERCENT (g)	33.1%	29.6%	30.6%	25.8%
TERMINAL (d)	9/31 (29%)	10/38 (26%)	8/32 (25%)	8/37 (22%)
FIRST INCIDENCE	503	484	442	554
HC TUMORS SAME RTE	92/299 (31%)			
HC TUMORS ALL RTES	295/1098 (27%)			

STATISTICAL TESTS

POLY 3	P=0.269N	P=0.443N	P=0.486N	P=0.293N
POLY 1.5	P=0.277N	P=0.467N	P=0.492N	P=0.308N
POLY 6	P=0.257N	P=0.412N	P=0.479N	P=0.274N
COCH-ARM / FISHERS	P=0.287N	P=0.500N	P=0.500N	P=0.326N
MAX-ISO-POLY-3	P=0.363N	P=0.358N	P=0.396N	P=0.223N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.87	0/45.75	0/43.2	0/45.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1099 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 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)	0/42.87	0/45.75	0/43.2	0/45.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1099 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Mesentery Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/42.87	0/45.75	0/43.2	3/45.33
POLY-3 PERCENT (g)	2.3%	0%	0%	6.6%
TERMINAL (d)	1/31 (3%)	0/38 (0%)	0/32 (0%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1099 (0%)			

STATISTICAL TESTS

POLY 3	P=0.084	P=0.487N	P=0.498N	P=0.325
POLY 1.5	P=0.085	P=0.493N	P=0.500N	P=0.316
POLY 6	P=0.084	P=0.479N	P=0.496N	P=0.339
COCH-ARM / FISHERS	P=0.086	P=0.500N	P=0.500N	P=0.309
MAX-ISO-POLY-3	P=0.054	P=0.158N	P=0.158N	P=0.175
HISTCONT SAME RTE	P=0.016*	(e)	(e)	P=0.023*
HISTCONT ALL RTES	P<0.001**	(e)	(e)	P<0.001**

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.87	0/45.75	0/42.59	0/45.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/290 (0%)			
HC TUMORS ALL RTES	3/1070 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.87	0/45.75	0/42.59	0/45.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/290 (0%)			
HC TUMORS ALL RTES	4/1070 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Pituitary Gland: Pars Intermedia
Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.87	0/45.75	0/42.59	0/45.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/290 (0%)			
HC TUMORS ALL RTES	3/1070 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Skeletal Muscle Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.87	1/45.8	2/43.68	0/45.33
POLY-3 PERCENT (g)	0%	2.2%	4.6%	0%
TERMINAL (d)	0/31 (0%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	---	718	618	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	2/1099 (0%)			

STATISTICAL TESTS

POLY 3	P=0.596N	P=0.513	P=0.241	(e)
POLY 1.5	P=0.605N	P=0.507	P=0.239	(e)
POLY 6	P=0.584N	P=0.522	P=0.245	(e)
COCH-ARM / FISHERS	P=0.615N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.342N	P=0.175	P=0.080	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTES	(h)	(h)	(h)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Skin
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/42.87	2/45.99	1/43.2	1/45.33
POLY-3 PERCENT (g)	2.3%	4.4%	2.3%	2.2%
TERMINAL (d)	1/31 (3%)	1/38 (3%)	1/32 (3%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	666	729 (T)	729 (T)
HC TUMORS SAME RTE	7/300 (2%)			
HC TUMORS ALL RTES	13/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.520N	P=0.524	P=0.759N	P=0.748N
POLY 1.5	P=0.527N	P=0.513	P=0.760N	P=0.754N
POLY 6	P=0.511N	P=0.540	P=0.757N	P=0.740N
COCH-ARM / FISHERS	P=0.534N	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.588N	P=0.307	P=0.497N	P=0.484N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Skin
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/42.87	2/45.99	0/43.2	1/45.33
POLY-3 PERCENT (g)	2.3%	4.4%	0%	2.2%
TERMINAL (d)	1/31 (3%)	1/38 (3%)	0/32 (0%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	666	---	729 (T)
HC TUMORS SAME RTE	7/300 (2%)			
HC TUMORS ALL RTES	10/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.497N	P=0.524	P=0.498N	P=0.748N
POLY 1.5	P=0.502N	P=0.513	P=0.500N	P=0.754N
POLY 6	P=0.490N	P=0.540	P=0.496N	P=0.740N
COCH-ARM / FISHERS	P=0.507N	P=0.500	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.398N	P=0.307	P=0.158N	P=0.484N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Skin				
Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/42.87	2/45.99	0/43.2	1/45.33
POLY-3 PERCENT (g)	0%	4.4%	0%	2.2%
TERMINAL (d)	0/31 (0%)	1/38 (3%)	0/32 (0%)	1/37 (3%)
FIRST INCIDENCE	---	666	---	729 (T)
HC TUMORS SAME RTE	4/300 (1%)			
HC TUMORS ALL RTES	5/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.557	P=0.253	(e)	P=0.511
POLY 1.5	P=0.546	P=0.246	(e)	P=0.506
POLY 6	P=0.572	P=0.264	(e)	P=0.518
COCH-ARM / FISHERS	P=0.534	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.349	P=0.091	(e)	P=0.172
HISTCONT SAME RTE	P=0.420	P=0.110	(e)	P=0.217
HISTCONT ALL RTES	P=0.261	P=0.021*	(e)	P=0.175

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Skin				
Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.87	0/45.75	0/43.2	0/45.33
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME RTE	3/300 (1%)			
HC TUMORS ALL RTES	5/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.319N	P=0.487N	P=0.498N	P=0.489N
POLY 1.5	P=0.313N	P=0.493N	P=0.500N	P=0.494N
POLY 6	P=0.326N	P=0.479N	P=0.496N	P=0.482N
COCH-ARM / FISHERS	P=0.307N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.123N	P=0.158N	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Spleen
 Hemangiosarcoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)	4/49 (8%)	1/50 (2%)
POLY-3 RATE (b)	3/43.32	4/46.05	4/43.33	1/45.33
POLY-3 PERCENT (g)	6.9%	8.7%	9.2%	2.2%
TERMINAL (d)	1/31 (3%)	1/38 (3%)	2/32 (6%)	1/37 (3%)
FIRST INCIDENCE	632	684	590	729 (T)
HC TUMORS SAME RTE	4/297 (1%)			
HC TUMORS ALL RTES	20/1086 (2%)			

STATISTICAL TESTS

POLY 3	P=0.197N	P=0.533	P=0.500	P=0.289N
POLY 1.5	P=0.204N	P=0.518	P=0.494	P=0.296N
POLY 6	P=0.188N	P=0.555	P=0.509	P=0.279N
COCH-ARM / FISHERS	P=0.212N	P=0.500	P=0.489	P=0.309N
MAX-ISO-POLY-3	P=0.215N	P=0.381	P=0.347	P=0.148N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Stomach, Forestomach
Squamous Cell Carcinoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.87	0/45.75	0/43.2	0/45.33
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	2/31 (7%)	0/38 (0%)	0/32 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	3/1099 (0%)			

STATISTICAL TESTS

POLY 3	P=0.120N	P=0.223N	P=0.235N	P=0.225N
POLY 1.5	P=0.117N	P=0.229N	P=0.237N	P=0.230N
POLY 6	P=0.125N	P=0.214N	P=0.233N	P=0.217N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.032N*	P=0.076N	P=0.076N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Stomach, Forestomach
Squamous Cell Carcinoma or Papilloma Squamous**

TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.87	0/45.75	0/43.2	1/45.33
POLY-3 PERCENT (g)	4.7%	0%	0%	2.2%
TERMINAL (d)	2/31 (7%)	0/38 (0%)	0/32 (0%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
HC TUMORS SAME RTE	2/300 (1%)			
HC TUMORS ALL RTES	13/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.473N	P=0.223N	P=0.235N	P=0.481N
POLY 1.5	P=0.468N	P=0.229N	P=0.237N	P=0.489N
POLY 6	P=0.481N	P=0.214N	P=0.233N	P=0.468N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.131N	P=0.076N	P=0.076N	P=0.270N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Thyroid Gland: Follicular Cell
Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/42.87	2/45.75	0/41.44	0/44.33
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/31 (0%)	2/38 (5%)	0/31 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
HC TUMORS SAME RTE	4/297 (1%)			
HC TUMORS ALL RTES	19/1092 (2%)			

STATISTICAL TESTS

POLY 3	P=0.401N	P=0.252	(e)	(e)
POLY 1.5	P=0.410N	P=0.245	(e)	(e)
POLY 6	P=0.389N	P=0.262	(e)	(e)
COCH-ARM / FISHERS	P=0.420N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.267N	P=0.090	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Tooth Odontoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/43.26	3/45.83	3/43.22	0/45.33
POLY-3 PERCENT (g)	4.6%	6.6%	6.9%	0%
TERMINAL (d)	1/31 (3%)	2/38 (5%)	2/32 (6%)	0/37 (0%)
FIRST INCIDENCE	620	710	723	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	2/1099 (0%)			

STATISTICAL TESTS

POLY 3	P=0.153N	P=0.526	P=0.500	P=0.227N
POLY 1.5	P=0.158N	P=0.515	P=0.499	P=0.232N
POLY 6	P=0.145N	P=0.543	P=0.502	P=0.220N
COCH-ARM / FISHERS	P=0.165N	P=0.500	P=0.500	P=0.247N
MAX-ISO-POLY-3	P=0.143N	P=0.351	P=0.323	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	7/50 (14%)	4/50 (8%)	6/50 (12%)	4/50 (8%)
POLY-3 RATE (b)	7/43.53	4/46.05	6/44.39	4/45.33
POLY-3 PERCENT (g)	16.1%	8.7%	13.5%	8.8%
TERMINAL (d)	4/31 (13%)	1/38 (3%)	2/32 (6%)	4/37 (11%)
FIRST INCIDENCE	632	684	590	729 (T)
HC TUMORS SAME RTE	16/300 (5%)			
HC TUMORS ALL RTES	65/1099 (6%)			

STATISTICAL TESTS

POLY 3	P=0.267N	P=0.229N	P=0.485N	P=0.237N
POLY 1.5	P=0.271N	P=0.243N	P=0.493N	P=0.248N
POLY 6	P=0.261N	P=0.210N	P=0.471N	P=0.223N
COCH-ARM / FISHERS	P=0.277N	P=0.262N	P=0.500N	P=0.262N
MAX-ISO-POLY-3	P=0.242N	P=0.149N	P=0.368N	P=0.154N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.42	2/46.17	1/43.2	1/45.38
POLY-3 PERCENT (g)	2.3%	4.3%	2.3%	2.2%
TERMINAL (d)	0/31 (0%)	1/38 (3%)	1/32 (3%)	0/37 (0%)
FIRST INCIDENCE	561	610	729 (T)	715
HC TUMORS SAME RTE	3/300 (1%)			
HC TUMORS ALL RTES	6/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.524N	P=0.521	P=0.760	P=0.751N
POLY 1.5	P=0.529N	P=0.512	P=0.760	P=0.755N
POLY 6	P=0.517N	P=0.535	P=0.761	P=0.744N
COCH-ARM / FISHERS	P=0.534N	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.590N	P=0.304	P=0.498	P=0.487N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

All Organs
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type

TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/43.35	3/45.93	3/43.86	0/45.33
POLY-3 PERCENT (g)	4.6%	6.5%	6.8%	0%
TERMINAL (d)	1/31 (3%)	2/38 (5%)	2/32 (6%)	0/37 (0%)
FIRST INCIDENCE	589	684	508	---
HC TUMORS SAME RTE	8/300 (3%)			
HC TUMORS ALL RTES	32/1099 (3%)			

STATISTICAL TESTS

POLY 3	P=0.153N	P=0.526	P=0.505	P=0.227N
POLY 1.5	P=0.159N	P=0.514	P=0.502	P=0.232N
POLY 6	P=0.146N	P=0.544	P=0.510	P=0.221N
COCH-ARM / FISHERS	P=0.165N	P=0.500	P=0.500	P=0.247N
MAX-ISO-POLY-3	P=0.145N	P=0.351	P=0.329	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	33/50 (66%)	34/50 (68%)	34/50 (68%)	34/50 (68%)
POLY-3 RATE (b)	33/46.74	34/48.13	34/45.73	34/48.81
POLY-3 PERCENT (g)	70.6%	70.7%	74.3%	69.7%
TERMINAL (d)	24/31 (77%)	27/38 (71%)	27/32 (84%)	25/37 (68%)
FIRST INCIDENCE	491	484	442	442
HC TUMORS SAME RTE	200/300 (67%)			
HC TUMORS ALL RTES	730/1099 (66%)			

STATISTICAL TESTS

POLY 3	P=0.513N	P=0.590	P=0.430	P=0.549N
POLY 1.5	P=0.532	P=0.551	P=0.461	P=0.576
POLY 6	P=0.460N	P=0.545N	P=0.387	P=0.486N
COCH-ARM / FISHERS	P=0.470	P=0.500	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.631N	P=0.498	P=0.337	P=0.458N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	36/50 (72%)	34/50 (68%)	32/50 (64%)	32/50 (64%)
POLY-3 RATE (b)	36/48.86	34/50	32/49.21	32/48.99
POLY-3 PERCENT (g)	73.7%	68%	65%	65.3%
TERMINAL (d)	20/31 (65%)	22/38 (58%)	17/32 (53%)	22/37 (60%)
FIRST INCIDENCE	491	484	442	442
HC TUMORS SAME RTE	146/300 (49%)			
HC TUMORS ALL RTES	562/1099 (51%)			

STATISTICAL TESTS

POLY 3	P=0.230N	P=0.344N	P=0.237N	P=0.247N
POLY 1.5	P=0.228N	P=0.375N	P=0.248N	P=0.253N
POLY 6	P=0.233N	P=0.304N	P=0.221N	P=0.238N
COCH-ARM / FISHERS	P=0.224N	P=0.414N	P=0.260N	P=0.260N
MAX-ISO-POLY-3	P=0.297N	P=0.270N	P=0.176N	P=0.183N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**All Organs
Malignant and Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	48/50 (96%)	46/50 (92%)	47/50 (94%)	44/50 (88%)
POLY-3 RATE (b)	48/50	46/50	47/49.8	44/49.81
POLY-3 PERCENT (g)	96%	92%	94.4%	88.3%
TERMINAL (d)	29/31 (94%)	34/38 (90%)	30/32 (94%)	32/37 (87%)
FIRST INCIDENCE	491	484	442	442
HC TUMORS SAME RTE	259/300 (86%)			
HC TUMORS ALL RTES	944/1099 (86%)			

STATISTICAL TESTS

POLY 3	P=0.121N	P=0.338N	P=0.535N	P=0.144N
POLY 1.5	P=0.115N	P=0.338N	P=0.518N	P=0.139N
POLY 6	P=0.131N	P=0.338N	P=0.564N	P=0.153N
COCH-ARM / FISHERS	P=0.109N	P=0.339N	P=0.500N	P=0.134N
MAX-ISO-POLY-3	P=0.109N	P=0.202N	P=0.350N	P=0.075N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Adrenal Cortex
Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/43.5	2/43.3	0/47.59	2/47.37
POLY-3 PERCENT (g)	2.3%	4.6%	0%	4.2%
TERMINAL (d)	1/32 (3%)	2/35 (6%)	0/36 (0%)	2/39 (5%)
FIRST INCIDENCE	731 (T)	731 (T)	---	731 (T)
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	5/1194 (0%)			

STATISTICAL TESTS

POLY 3	P=0.495	P=0.498	P=0.482N	P=0.530
POLY 1.5	P=0.486	P=0.501	P=0.488N	P=0.521
POLY 6	P=0.505	P=0.496	P=0.475N	P=0.539
COCH-ARM / FISHERS	P=0.466	P=0.500	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.465	P=0.279	P=0.158N	P=0.313
HISTCONT SAME RTE	P=0.145	P=0.066	(e)	P=0.062
HISTCONT ALL RTES	P=0.012*	P=0.010**	(e)	P=0.010**

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Adrenal Medulla
Pheochromocytoma: Benign, Complex, Malignant, NOS**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	0/43.5	2/43.3	1/47.59	1/46.41
POLY-3 PERCENT (g)	0%	4.6%	2.1%	2.2%
TERMINAL (d)	0/32 (0%)	2/35 (6%)	1/36 (3%)	0/38 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	719
HC TUMORS SAME RTE	7/296 (2%)			
HC TUMORS ALL RTES	22/1189 (2%)			

STATISTICAL TESTS

POLY 3	P=0.532	P=0.236	P=0.518	P=0.513
POLY 1.5	P=0.519	P=0.238	P=0.512	P=0.508
POLY 6	P=0.545	P=0.235	P=0.525	P=0.519
COCH-ARM / FISHERS	P=0.492	P=0.247	P=0.500	P=0.495
MAX-ISO-POLY-3	P=0.297	P=0.076	P=0.180	P=0.176
HISTCONT SAME RTE	P=0.359	P=0.091	P=0.228	P=0.221
HISTCONT ALL RTES	P=0.345	P=0.086	P=0.217	P=0.210

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Bone Marrow Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.95	1/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	2.3%	2.3%	0%	0%
TERMINAL (d)	0/32 (0%)	1/35 (3%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	599	731 (T)	---	---
HC TUMORS SAME RTE	2/297 (1%)			
HC TUMORS ALL RTES	7/1193 (1%)			

STATISTICAL TESTS

POLY 3	P=0.234N	P=0.757	P=0.484N	P=0.485N
POLY 1.5	P=0.236N	P=0.760	P=0.489N	P=0.489N
POLY 6	P=0.232N	P=0.755	P=0.478N	P=0.481N
COCH-ARM / FISHERS	P=0.239N	P=0.753N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.252N	P=0.495	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	3/43.5	1/43.3	0/47.59	5/47.83
POLY-3 PERCENT (g)	6.9%	2.3%	0%	10.5%
TERMINAL (d)	3/32 (9%)	1/35 (3%)	0/36 (0%)	3/39 (8%)
FIRST INCIDENCE	731 (T)	731 (T)	---	610
HC TUMORS SAME RTE	29/300 (10%)			
HC TUMORS ALL RTES	125/1199 (10%)			

STATISTICAL TESTS

POLY 3	P=0.180	P=0.307N	P=0.103N	P=0.410
POLY 1.5	P=0.173	P=0.304N	P=0.109N	P=0.393
POLY 6	P=0.187	P=0.308N	P=0.098N	P=0.430
COCH-ARM / FISHERS	P=0.163	P=0.309N	P=0.121N	P=0.357
MAX-ISO-POLY-3	P=0.088	P=0.155N	P=0.038N*	P=0.285
HISTCONT SAME RTE	P=0.103	P=1.000	(e)	P=0.368
HISTCONT ALL RTES	P=0.099	P=1.000	(e)	P=0.355

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	2/43.6	1/43.3	0/47.59	4/47.37
POLY-3 PERCENT (g)	4.6%	2.3%	0%	8.5%
TERMINAL (d)	0/32 (0%)	1/35 (3%)	0/36 (0%)	4/39 (10%)
FIRST INCIDENCE	712	731 (T)	---	731 (T)
HC TUMORS SAME RTE	10/300 (3%)			
HC TUMORS ALL RTES	32/1199 (3%)			

STATISTICAL TESTS

POLY 3	P=0.179	P=0.502N	P=0.218N	P=0.376
POLY 1.5	P=0.174	P=0.500N	P=0.225N	P=0.365
POLY 6	P=0.185	P=0.505N	P=0.211N	P=0.389
COCH-ARM / FISHERS	P=0.164	P=0.500N	P=0.247N	P=0.339
MAX-ISO-POLY-3	P=0.108	P=0.283N	P=0.076N	P=0.241
HISTCONT SAME RTE	P=0.129	P=1.000	(e)	P=0.215
HISTCONT ALL RTES	P=0.113	P=1.000	(e)	P=0.079

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	2/50 (4%)	0/50 (0%)	9/50 (18%)
POLY-3 RATE (b)	5/43.6	2/43.3	0/47.59	9/47.83
POLY-3 PERCENT (g)	11.5%	4.6%	0%	18.8%
TERMINAL (d)	3/32 (9%)	2/35 (6%)	0/36 (0%)	7/39 (18%)
FIRST INCIDENCE	712	731 (T)	---	610
HC TUMORS SAME RTE	38/300 (13%)			
HC TUMORS ALL RTES	156/1199 (13%)			

STATISTICAL TESTS

POLY 3	P=0.062	P=0.218N	P=0.024N*	P=0.248
POLY 1.5	P=0.058	P=0.215N	P=0.026N*	P=0.230
POLY 6	P=0.066	P=0.220N	P=0.021N*	P=0.268
COCH-ARM / FISHERS	P=0.056	P=0.218N	P=0.028N*	P=0.194
MAX-ISO-POLY-3	P=0.018*	P=0.121N	P=0.010N**	P=0.177
HISTCONT SAME RTE	P=0.020*	P=1.000	(e)	P=0.223
HISTCONT ALL RTES	P=0.019*	P=1.000	(e)	P=0.211

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Intestine Small: Jejunum
Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.5	0/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	4/1199 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Intestine Small: Site Unspecified
Carcinoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.5	0/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	6/1199 (1%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Islets, Pancreatic
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.5	0/43.3	0/47.59	1/47.64
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	656
HC TUMORS SAME RTE	2/295 (1%)			
HC TUMORS ALL RTES	12/1178 (1%)			

STATISTICAL TESTS

POLY 3	P=0.214	(e)	(e)	P=0.518
POLY 1.5	P=0.209	(e)	(e)	P=0.512
POLY 6	P=0.219	(e)	(e)	P=0.525
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.155	(e)	(e)	P=0.181
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Islets, Pancreatic
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.5	0/43.3	0/47.59	1/47.64
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	656
HC TUMORS SAME RTE	4/295 (1%)			
HC TUMORS ALL RTES	16/1178 (1%)			

STATISTICAL TESTS

POLY 3	P=0.214	(e)	(e)	P=0.518
POLY 1.5	P=0.209	(e)	(e)	P=0.512
POLY 6	P=0.219	(e)	(e)	P=0.525
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.155	(e)	(e)	P=0.181
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Kidney: Renal Tubule
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.5	0/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/298 (0%)			
HC TUMORS ALL RTES	0/1190 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Liver Hemangiosarcoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.5	1/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	2.3%	2.3%	0%	0%
TERMINAL (d)	1/32 (3%)	1/35 (3%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	11/1195 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.233N	P=0.760	P=0.482N	P=0.483N
POLY 1.5	P=0.235N	P=0.760N	P=0.488N	P=0.488N
POLY 6	P=0.231N	P=0.759	P=0.475N	P=0.477N
COCH-ARM / FISHERS	P=0.239N	P=0.753N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.254N	P=0.498	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
 Hepatocellular Adenoma**

TUMOR RATES

OVERALL (a)	14/50 (28%)	19/50 (38%)	17/50 (34%)	10/50 (20%)
POLY-3 RATE (b)	14/44.59	19/45.31	17/47.93	10/47.98
POLY-3 PERCENT (g)	31.4%	41.9%	35.5%	20.8%
TERMINAL (d)	11/32 (34%)	14/35 (40%)	14/36 (39%)	7/39 (18%)
FIRST INCIDENCE	592	444	659	653
HC TUMORS SAME RTE	82/299 (27%)			
HC TUMORS ALL RTES	342/1195 (29%)			

STATISTICAL TESTS

POLY 3	P=0.070N	P=0.205	P=0.423	P=0.178N
POLY 1.5	P=0.085N	P=0.207	P=0.394	P=0.196N
POLY 6	P=0.056N	P=0.205	P=0.458	P=0.160N
COCH-ARM / FISHERS	P=0.127N	P=0.198	P=0.333	P=0.241N
MAX-ISO-POLY-3	P=0.087N	P=0.149	P=0.344	P=0.131N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
 Hepatocellular Carcinoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	4/43.5	5/44.4	7/47.75	2/47.41
POLY-3 PERCENT (g)	9.2%	11.3%	14.7%	4.2%
TERMINAL (d)	4/32 (13%)	3/35 (9%)	6/36 (17%)	1/39 (3%)
FIRST INCIDENCE	731 (T)	533	689	719
HC TUMORS SAME RTE	34/299 (11%)			
HC TUMORS ALL RTES	129/1195 (11%)			

STATISTICAL TESTS

POLY 3	P=0.220N	P=0.513	P=0.317	P=0.298N
POLY 1.5	P=0.238N	P=0.510	P=0.298	P=0.310N
POLY 6	P=0.202N	P=0.518	P=0.342	P=0.285N
COCH-ARM / FISHERS	P=0.278N	P=0.500	P=0.262	P=0.339N
MAX-ISO-POLY-3	P=0.198N	P=0.375	P=0.224	P=0.181N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
Hepatocellular Carcinoma or Hepatoblastoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	4/43.5	5/44.4	7/47.75	2/47.41
POLY-3 PERCENT (g)	9.2%	11.3%	14.7%	4.2%
TERMINAL (d)	4/32 (13%)	3/35 (9%)	6/36 (17%)	1/39 (3%)
FIRST INCIDENCE	731 (T)	533	689	719
HC TUMORS SAME RTE	34/299 (11%)			
HC TUMORS ALL RTES	134/1195 (11%)			

STATISTICAL TESTS

POLY 3	P=0.220N	P=0.513	P=0.317	P=0.298N
POLY 1.5	P=0.238N	P=0.510	P=0.298	P=0.310N
POLY 6	P=0.202N	P=0.518	P=0.342	P=0.285N
COCH-ARM / FISHERS	P=0.278N	P=0.500	P=0.262	P=0.339N
MAX-ISO-POLY-3	P=0.198N	P=0.375	P=0.224	P=0.181N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
Hepatocellular Carcinoma or Hepatocellular Adenoma**

TUMOR RATES

OVERALL (a)	16/50 (32%)	23/50 (46%)	22/50 (44%)	11/50 (22%)
POLY-3 RATE (b)	16/44.59	23/46.41	22/48.09	11/47.98
POLY-3 PERCENT (g)	35.9%	49.6%	45.8%	22.9%
TERMINAL (d)	13/32 (41%)	16/35 (46%)	18/36 (50%)	8/39 (21%)
FIRST INCIDENCE	592	444	659	653
HC TUMORS SAME RTE	104/299 (35%)			
HC TUMORS ALL RTES	415/1195 (35%)			

STATISTICAL TESTS

POLY 3	P=0.037N*	P=0.131	P=0.224	P=0.125N
POLY 1.5	P=0.047N*	P=0.125	P=0.199	P=0.141N
POLY 6	P=0.028N*	P=0.141	P=0.258	P=0.109N
COCH-ARM / FISHERS	P=0.082N	P=0.109	P=0.151	P=0.184N
MAX-ISO-POLY-3	P=0.032N*	P=0.095	P=0.175	P=0.092N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Liver
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma**

TUMOR RATES

OVERALL (a)	16/50 (32%)	23/50 (46%)	22/50 (44%)	11/50 (22%)
POLY-3 RATE (b)	16/44.59	23/46.41	22/48.09	11/47.98
POLY-3 PERCENT (g)	35.9%	49.6%	45.8%	22.9%
TERMINAL (d)	13/32 (41%)	16/35 (46%)	18/36 (50%)	8/39 (21%)
FIRST INCIDENCE	592	444	659	653
HC TUMORS SAME RTE	104/299 (35%)			
HC TUMORS ALL RTES	417/1195 (35%)			

STATISTICAL TESTS

POLY 3	P=0.037N*	P=0.131	P=0.224	P=0.125N
POLY 1.5	P=0.047N*	P=0.125	P=0.199	P=0.141N
POLY 6	P=0.028N*	P=0.141	P=0.258	P=0.109N
COCH-ARM / FISHERS	P=0.082N	P=0.109	P=0.151	P=0.184N
MAX-ISO-POLY-3	P=0.032N*	P=0.095	P=0.175	P=0.092N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Lung
Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/43.5	3/43.6	2/47.59	4/47.78
POLY-3 PERCENT (g)	4.6%	6.9%	4.2%	8.4%
TERMINAL (d)	2/32 (6%)	2/35 (6%)	2/36 (6%)	3/39 (8%)
FIRST INCIDENCE	731 (T)	649	731 (T)	610
HC TUMORS SAME RTE	15/300 (5%)			
HC TUMORS ALL RTES	61/1198 (5%)			

STATISTICAL TESTS

POLY 3	P=0.327	P=0.501	P=0.661N	P=0.382
POLY 1.5	P=0.312	P=0.503	P=0.672N	P=0.367
POLY 6	P=0.344	P=0.501	P=0.647N	P=0.398
COCH-ARM / FISHERS	P=0.281	P=0.500	P=0.691N	P=0.339
MAX-ISO-POLY-3	P=0.383	P=0.324	P=0.464N	P=0.246
HISTCONT SAME RTE	P=0.410	P=0.422	P=1.000	P=0.299
HISTCONT ALL RTES	P=0.444	P=0.408	P=1.000	P=0.302

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Lung
Alveolar/Bronchiolar Carcinoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	3/43.64	1/43.75	4/47.59	1/47.37
POLY-3 PERCENT (g)	6.9%	2.3%	8.4%	2.1%
TERMINAL (d)	2/32 (6%)	0/35 (0%)	4/36 (11%)	1/39 (3%)
FIRST INCIDENCE	695	600	731 (T)	731 (T)
HC TUMORS SAME RTE	8/300 (3%)			
HC TUMORS ALL RTES	47/1198 (4%)			

STATISTICAL TESTS

POLY 3	P=0.299N	P=0.304N	P=0.547	P=0.277N
POLY 1.5	P=0.312N	P=0.303N	P=0.531	P=0.285N
POLY 6	P=0.286N	P=0.304N	P=0.565	P=0.268N
COCH-ARM / FISHERS	P=0.339N	P=0.309N	P=0.500	P=0.309N
MAX-ISO-POLY-3	P=0.254N	P=0.153N	P=0.395	P=0.144N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Lung
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	5/50 (10%)	4/50 (8%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	5/43.64	4/44.05	6/47.59	5/47.78
POLY-3 PERCENT (g)	11.5%	9.1%	12.6%	10.5%
TERMINAL (d)	4/32 (13%)	2/35 (6%)	6/36 (17%)	4/39 (10%)
FIRST INCIDENCE	695	600	731 (T)	610
HC TUMORS SAME RTE	23/300 (8%)			
HC TUMORS ALL RTES	103/1198 (9%)			

STATISTICAL TESTS

POLY 3	P=0.557N	P=0.494N	P=0.560	P=0.572N
POLY 1.5	P=0.552	P=0.494N	P=0.540	P=0.590N
POLY 6	P=0.535N	P=0.492N	P=0.584	P=0.552N
COCH-ARM / FISHERS	P=0.503	P=0.500N	P=0.500	P=0.630N
MAX-ISO-POLY-3	P=0.658	P=0.357N	P=0.434	P=0.441N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	4/44.43	1/43.3	2/47.59	0/47.37
POLY-3 PERCENT (g)	9%	2.3%	4.2%	0%
TERMINAL (d)	1/32 (3%)	1/35 (3%)	2/36 (6%)	0/39 (0%)
FIRST INCIDENCE	584	731 (T)	731 (T)	---
HC TUMORS SAME RTE	3/300 (1%)			
HC TUMORS ALL RTES	15/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.043N*	P=0.186N	P=0.306N	P=0.053N
POLY 1.5	P=0.045N*	P=0.181N	P=0.316N	P=0.055N
POLY 6	P=0.041N*	P=0.192N	P=0.296N	P=0.051N
COCH-ARM / FISHERS	P=0.051N	P=0.181N	P=0.339N	P=0.059N
MAX-ISO-POLY-3	P=0.021N*	P=0.091N	P=0.185N	P=0.019N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Mammary Gland
Fibroma, Fibroadenoma, Carcinoma, or Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	5/45.17	1/43.3	2/47.59	0/47.37
POLY-3 PERCENT (g)	11.1%	2.3%	4.2%	0%
TERMINAL (d)	1/32 (3%)	1/35 (3%)	2/36 (6%)	0/39 (0%)
FIRST INCIDENCE	465	731 (T)	731 (T)	---
HC TUMORS SAME RTE	3/300 (1%)			
HC TUMORS ALL RTES	15/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.020N*	P=0.111N	P=0.196N	P=0.027N*
POLY 1.5	P=0.021N*	P=0.106N	P=0.202N	P=0.028N*
POLY 6	P=0.019N*	P=0.117N	P=0.189N	P=0.026N*
COCH-ARM / FISHERS	P=0.025N*	P=0.102N	P=0.218N	P=0.028N*
MAX-ISO-POLY-3	P=0.007N**	P=0.053N	P=0.111N	P=0.010N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Mesentery Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/43.5	0/43.3	0/47.59	1/47.37
POLY-3 PERCENT (g)	4.6%	0%	0%	2.1%
TERMINAL (d)	2/32 (6%)	0/35 (0%)	0/36 (0%)	1/39 (3%)
FIRST INCIDENCE	731 (T)	---	---	731 (T)
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1199 (0%)			

STATISTICAL TESTS

POLY 3	P=0.457N	P=0.238N	P=0.218N	P=0.470N
POLY 1.5	P=0.459N	P=0.237N	P=0.224N	P=0.479N
POLY 6	P=0.455N	P=0.239N	P=0.210N	P=0.461N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.130N	P=0.077N	P=0.076N	P=0.264N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Ovary
Cystadenoma**

TUMOR RATES

OVERALL (a)	3/49 (6%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/42.52	2/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	7.1%	4.6%	0%	0%
TERMINAL (d)	3/32 (9%)	2/35 (6%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
HC TUMORS SAME RTE	17/291 (6%)			
HC TUMORS ALL RTES	46/1171 (4%)			

STATISTICAL TESTS

POLY 3	P=0.034N*	P=0.492N	P=0.100N	P=0.100N
POLY 1.5	P=0.035N*	P=0.489N	P=0.105N	P=0.105N
POLY 6	P=0.033N*	P=0.494N	P=0.094N	P=0.096N
COCH-ARM / FISHERS	P=0.039N*	P=0.490N	P=0.117N	P=0.117N
MAX-ISO-POLY-3	P=0.039N*	P=0.317N	P=0.037N*	P=0.037N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Adenoma**

TUMOR RATES

OVERALL (a)	10/50 (20%)	5/50 (10%)	6/50 (12%)	7/49 (14%)
POLY-3 RATE (b)	10/44.88	5/43.3	6/47.86	7/46.37
POLY-3 PERCENT (g)	22.3%	11.6%	12.5%	15.1%
TERMINAL (d)	7/32 (22%)	5/35 (14%)	4/36 (11%)	7/38 (18%)
FIRST INCIDENCE	465	731 (T)	680	731 (T)
HC TUMORS SAME RTE	41/294 (14%)			
HC TUMORS ALL RTES	96/1166 (8%)			

STATISTICAL TESTS

POLY 3	P=0.301N	P=0.144N	P=0.167N	P=0.270N
POLY 1.5	P=0.318N	P=0.136N	P=0.179N	P=0.281N
POLY 6	P=0.284N	P=0.153N	P=0.151N	P=0.260N
COCH-ARM / FISHERS	P=0.354N	P=0.131N	P=0.207N	P=0.314N
MAX-ISO-POLY-3	P=0.184N	P=0.093N	P=0.114N	P=0.195N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	10/50 (20%)	6/50 (12%)	6/50 (12%)	7/49 (14%)
POLY-3 RATE (b)	10/44.88	6/43.3	6/47.86	7/46.37
POLY-3 PERCENT (g)	22.3%	13.9%	12.5%	15.1%
TERMINAL (d)	7/32 (22%)	6/35 (17%)	4/36 (11%)	7/38 (18%)
FIRST INCIDENCE	465	731 (T)	680	731 (T)
HC TUMORS SAME RTE	42/294 (14%)			
HC TUMORS ALL RTES	98/1166 (8%)			

STATISTICAL TESTS

POLY 3	P=0.269N	P=0.226N	P=0.167N	P=0.270N
POLY 1.5	P=0.285N	P=0.215N	P=0.179N	P=0.281N
POLY 6	P=0.253N	P=0.239N	P=0.151N	P=0.260N
COCH-ARM / FISHERS	P=0.320N	P=0.207N	P=0.207N	P=0.314N
MAX-ISO-POLY-3	P=0.222N	P=0.156N	P=0.114N	P=0.195N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Pituitary Gland: Pars Intermedia
Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	2/43.66	1/43.3	0/47.59	1/46.37
POLY-3 PERCENT (g)	4.6%	2.3%	0%	2.2%
TERMINAL (d)	1/32 (3%)	1/35 (3%)	0/36 (0%)	1/38 (3%)
FIRST INCIDENCE	690	731 (T)	---	731 (T)
HC TUMORS SAME RTE	3/294 (1%)			
HC TUMORS ALL RTES	12/1166 (1%)			

STATISTICAL TESTS

POLY 3	P=0.363N	P=0.503N	P=0.219N	P=0.479N
POLY 1.5	P=0.367N	P=0.500N	P=0.225N	P=0.487N
POLY 6	P=0.359N	P=0.506N	P=0.211N	P=0.471N
COCH-ARM / FISHERS	P=0.375N	P=0.500N	P=0.247N	P=0.508N
MAX-ISO-POLY-3	P=0.221N	P=0.283N	P=0.076N	P=0.270N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Skeletal Muscle Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.5	0/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1199 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Skin
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/44.51	2/44.42	6/47.9	2/47.65
POLY-3 PERCENT (g)	9%	4.5%	12.5%	4.2%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	3/36 (8%)	1/39 (3%)
FIRST INCIDENCE	599	551	676	653
HC TUMORS SAME RTE	14/300 (5%)			
HC TUMORS ALL RTES	53/1199 (4%)			

STATISTICAL TESTS

POLY 3	P=0.337N	P=0.338N	P=0.417	P=0.306N
POLY 1.5	P=0.351N	P=0.335N	P=0.402	P=0.315N
POLY 6	P=0.323N	P=0.341N	P=0.434	P=0.299N
COCH-ARM / FISHERS	P=0.384N	P=0.339N	P=0.370	P=0.339N
MAX-ISO-POLY-3	P=0.325N	P=0.201N	P=0.300	P=0.185N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Skin
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/44.51	2/44.42	6/47.9	2/47.65
POLY-3 PERCENT (g)	9%	4.5%	12.5%	4.2%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	3/36 (8%)	1/39 (3%)
FIRST INCIDENCE	599	551	676	653
HC TUMORS SAME RTE	14/300 (5%)			
HC TUMORS ALL RTES	53/1199 (4%)			

STATISTICAL TESTS

POLY 3	P=0.337N	P=0.338N	P=0.417	P=0.306N
POLY 1.5	P=0.351N	P=0.335N	P=0.402	P=0.315N
POLY 6	P=0.323N	P=0.341N	P=0.434	P=0.299N
COCH-ARM / FISHERS	P=0.384N	P=0.339N	P=0.370	P=0.339N
MAX-ISO-POLY-3	P=0.325N	P=0.201N	P=0.300	P=0.185N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Skin				
Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.5	1/43.85	0/47.59	0/47.37
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	564	---	---
HC TUMORS SAME RTE	2/300 (1%)			
HC TUMORS ALL RTES	7/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.567N	P=0.502	(e)	(e)
POLY 1.5	P=0.569N	P=0.502	(e)	(e)
POLY 6	P=0.564N	P=0.502	(e)	(e)
COCH-ARM / FISHERS	P=0.575N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.389N	P=0.161	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Skin Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/44.51	1/43.88	6/47.9	2/47.65
POLY-3 PERCENT (g)	9%	2.3%	12.5%	4.2%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	3/36 (8%)	1/39 (3%)
FIRST INCIDENCE	599	551	676	653
HC TUMORS SAME RTE	12/300 (4%)			
HC TUMORS ALL RTES	27/1199 (2%)			

STATISTICAL TESTS

POLY 3	P=0.384N	P=0.183N	P=0.417	P=0.306N
POLY 1.5	P=0.401N	P=0.179N	P=0.402	P=0.315N
POLY 6	P=0.368N	P=0.187N	P=0.434	P=0.299N
COCH-ARM / FISHERS	P=0.435N	P=0.181N	P=0.370	P=0.339N
MAX-ISO-POLY-3	P=0.310N	P=0.088N	P=0.300	P=0.185N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Spleen
Hemangiosarcoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.5	0/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	2/32 (6%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
HC TUMORS SAME RTE	3/297 (1%)			
HC TUMORS ALL RTES	24/1180 (2%)			

STATISTICAL TESTS

POLY 3	P=0.113N	P=0.238N	P=0.218N	P=0.219N
POLY 1.5	P=0.114N	P=0.237N	P=0.224N	P=0.224N
POLY 6	P=0.113N	P=0.239N	P=0.210N	P=0.213N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.032N*	P=0.077N	P=0.076N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Stomach, Forestomach Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.5	0/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/32 (3%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	2/1199 (0%)			

STATISTICAL TESTS

POLY 3	P=0.311N	P=0.501N	P=0.482N	P=0.483N
POLY 1.5	P=0.310N	P=0.500N	P=0.488N	P=0.488N
POLY 6	P=0.313N	P=0.502N	P=0.475N	P=0.477N
COCH-ARM / FISHERS	P=0.307N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.123N	P=0.160N	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**Stomach, Forestomach
Squamous Cell Carcinoma or Papilloma Squamous**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.5	0/43.3	1/47.59	1/47.37
POLY-3 PERCENT (g)	2.3%	0%	2.1%	2.1%
TERMINAL (d)	1/32 (3%)	0/35 (0%)	1/36 (3%)	1/39 (3%)
FIRST INCIDENCE	731 (T)	---	731 (T)	731 (T)
HC TUMORS SAME RTE	4/300 (1%)			
HC TUMORS ALL RTES	20/1199 (2%)			

STATISTICAL TESTS

POLY 3	P=0.572	P=0.501N	P=0.740N	P=0.741N
POLY 1.5	P=0.563	P=0.500N	P=0.747N	P=0.747N
POLY 6	P=0.583	P=0.502N	P=0.732N	P=0.735N
COCH-ARM / FISHERS	P=0.544	P=0.500N	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.577	P=0.160N	P=0.475N	P=0.476N
HISTCONT SAME RTE	P=0.543	(e)	P=0.424	P=0.422
HISTCONT ALL RTES	P=0.678	(e)	P=0.569	P=0.567

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

Thyroid Gland: Follicular Cell Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.5	1/43.3	1/47.59	0/47.37
POLY-3 PERCENT (g)	0%	2.3%	2.1%	0%
TERMINAL (d)	0/32 (0%)	1/35 (3%)	1/36 (3%)	0/39 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	---
HC TUMORS SAME RTE	8/299 (3%)			
HC TUMORS ALL RTES	28/1185 (2%)			

STATISTICAL TESTS

POLY 3	P=0.573N	P=0.499	P=0.518	(e)
POLY 1.5	P=0.580N	P=0.500	P=0.512	(e)
POLY 6	P=0.565N	P=0.498	P=0.525	(e)
COCH-ARM / FISHERS	P=0.597N	P=0.500	P=0.500	(e)
MAX-ISO-POLY-3	P=0.416N	P=0.158	P=0.180	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTES	(h)	(h)	(h)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Tooth Odontoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.5	0/43.3	0/47.59	0/47.37
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	0/1199 (0%)			

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/43.5	2/43.3	2/47.8	0/47.37
POLY-3 PERCENT (g)	2.3%	4.6%	4.2%	0%
TERMINAL (d)	1/32 (3%)	2/35 (6%)	1/36 (3%)	0/39 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	676	---
HC TUMORS SAME RTE	14/300 (5%)			
HC TUMORS ALL RTES	33/1199 (3%)			

STATISTICAL TESTS

POLY 3	P=0.265N	P=0.498	P=0.533	P=0.483N
POLY 1.5	P=0.275N	P=0.501	P=0.521	P=0.488N
POLY 6	P=0.254N	P=0.496	P=0.547	P=0.477N
COCH-ARM / FISHERS	P=0.297N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.243N	P=0.279	P=0.316	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/43.5	3/43.3	2/47.8	0/47.37
POLY-3 PERCENT (g)	2.3%	6.9%	4.2%	0%
TERMINAL (d)	1/32 (3%)	3/35 (9%)	1/36 (3%)	0/39 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	676	---
HC TUMORS SAME RTE	16/300 (5%)			
HC TUMORS ALL RTES	39/1199 (3%)			

STATISTICAL TESTS

POLY 3	P=0.212N	P=0.303	P=0.533	P=0.483N
POLY 1.5	P=0.222N	P=0.306	P=0.521	P=0.488N
POLY 6	P=0.202N	P=0.301	P=0.547	P=0.477N
COCH-ARM / FISHERS	P=0.244N	P=0.309	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.191N	P=0.153	P=0.316	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	5/43.95	3/43.6	0/47.59	2/47.37
POLY-3 PERCENT (g)	11.4%	6.9%	0%	4.2%
TERMINAL (d)	4/32 (13%)	2/35 (6%)	0/36 (0%)	2/39 (5%)
FIRST INCIDENCE	599	649	---	731 (T)
HC TUMORS SAME RTE	12/300 (4%)			
HC TUMORS ALL RTES	58/1199 (5%)			

STATISTICAL TESTS

POLY 3	P=0.102N	P=0.360N	P=0.024N*	P=0.187N
POLY 1.5	P=0.106N	P=0.356N	P=0.026N*	P=0.195N
POLY 6	P=0.098N	P=0.363N	P=0.022N*	P=0.178N
COCH-ARM / FISHERS	P=0.116N	P=0.357N	P=0.028N*	P=0.218N
MAX-ISO-POLY-3	P=0.045N*	P=0.235N	P=0.010N**	P=0.107N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/43.52	0/43.3	0/47.59	1/47.62
POLY-3 PERCENT (g)	2.3%	0%	0%	2.1%
TERMINAL (d)	0/32 (0%)	0/35 (0%)	0/36 (0%)	0/39 (0%)
FIRST INCIDENCE	726	---	---	662
HC TUMORS SAME RTE	8/300 (3%)			
HC TUMORS ALL RTES	31/1199 (3%)			

STATISTICAL TESTS

POLY 3	P=0.613	P=0.501N	P=0.482N	P=0.740N
POLY 1.5	P=0.607	P=0.500N	P=0.488N	P=0.747N
POLY 6	P=0.620	P=0.502N	P=0.475N	P=0.733N
COCH-ARM / FISHERS	P=0.597	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.398N	P=0.160N	P=0.158N	P=0.475N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

All Organs
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type

TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	15/50 (30%)	15/50 (30%)	13/50 (26%)
POLY-3 RATE (b)	8/46	15/44.5	15/48.21	13/47.65
POLY-3 PERCENT (g)	17.4%	33.7%	31.1%	27.3%
TERMINAL (d)	1/32 (3%)	12/35 (34%)	9/36 (25%)	11/39 (28%)
FIRST INCIDENCE	522	551	680	684
HC TUMORS SAME RTE	64/300 (21%)			
HC TUMORS ALL RTES	278/1199 (23%)			

STATISTICAL TESTS

POLY 3	P=0.278	P=0.059	P=0.094	P=0.184
POLY 1.5	P=0.268	P=0.067	P=0.089	P=0.182
POLY 6	P=0.284	P=0.051	P=0.100	P=0.183
COCH-ARM / FISHERS	P=0.229	P=0.077	P=0.077	P=0.163
MAX-ISO-POLY-3	P=0.121	P=0.038*	P=0.063	P=0.129
HISTCONT SAME RTE	P=0.145	P=0.042*	P=0.075	P=0.161
HISTCONT ALL RTES	P=0.139	P=0.040*	P=0.071	P=0.153

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	25/50 (50%)	28/50 (56%)	26/50 (52%)	26/50 (52%)
POLY-3 RATE (b)	25/45.49	28/45.61	26/48.41	26/48.4
POLY-3 PERCENT (g)	55%	61.4%	53.7%	53.7%
TERMINAL (d)	20/32 (63%)	22/35 (63%)	20/36 (56%)	22/39 (56%)
FIRST INCIDENCE	465	444	659	610
HC TUMORS SAME RTE	170/300 (57%)			
HC TUMORS ALL RTEs	631/1199 (53%)			

STATISTICAL TESTS

POLY 3	P=0.394N	P=0.338	P=0.534N	P=0.535N
POLY 1.5	P=0.441N	P=0.350	P=0.574N	P=0.570N
POLY 6	P=0.343N	P=0.333	P=0.478N	P=0.495N
COCH-ARM / FISHERS	P=0.527	P=0.344	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.531N	P=0.263	P=0.451N	P=0.452N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 06
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 10/23/2008
 Time Report Requested: 13:20:12
 First Dose M/F: 08/18/03 / 08/18/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**All Organs
 Malignant Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	23/50 (46%)	28/50 (56%)	30/50 (60%)	27/50 (54%)
POLY-3 RATE (b)	23/47.03	28/47.65	30/48.67	27/49.21
POLY-3 PERCENT (g)	48.9%	58.8%	61.6%	54.9%
TERMINAL (d)	11/32 (34%)	19/35 (54%)	20/36 (56%)	19/39 (49%)
FIRST INCIDENCE	522	444	676	626
HC TUMORS SAME RTE	149/300 (50%)			
HC TUMORS ALL RTES	617/1199 (52%)			

STATISTICAL TESTS

POLY 3	P=0.381	P=0.223	P=0.146	P=0.352
POLY 1.5	P=0.357	P=0.228	P=0.140	P=0.335
POLY 6	P=0.406	P=0.216	P=0.155	P=0.368
COCH-ARM / FISHERS	P=0.283	P=0.212	P=0.115	P=0.274
MAX-ISO-POLY-3	P=0.288	P=0.168	P=0.107	P=0.284
HISTCONT SAME RTE	P=0.347	P=0.211	P=0.131	P=0.367
HISTCONT ALL RTES	P=0.335	P=0.202	P=0.124	P=0.354

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

DOSE	Females			
	CONTROL	16 PPM	31 PPM	62.5 PPM

**All Organs
Malignant and Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	41/50 (82%)	40/50 (80%)	41/50 (82%)	42/50 (84%)
POLY-3 RATE (b)	41/48.41	40/48.14	41/48.96	42/49.91
POLY-3 PERCENT (g)	84.7%	83.1%	83.7%	84.2%
TERMINAL (d)	26/32 (81%)	29/35 (83%)	29/36 (81%)	32/39 (82%)
FIRST INCIDENCE	465	444	659	610
HC TUMORS SAME RTE	240/300 (80%)			
HC TUMORS ALL RTES	916/1199 (76%)			

STATISTICAL TESTS

POLY 3	P=0.548N	P=0.526N	P=0.559N	P=0.581N
POLY 1.5	P=0.526	P=0.492N	P=0.552N	P=0.601N
POLY 6	P=0.509N	P=0.562N	P=0.558N	P=0.557N
COCH-ARM / FISHERS	P=0.403	P=0.500N	P=0.602N	P=0.500
MAX-ISO-POLY-3	P=0.682N	P=0.412N	P=0.447N	P=0.470N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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) Value of Historical Controls statistic is only calculated when Poly-3 trend is positive and when there is more than one tumor in the treatment groups.
 - (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<=0.05).
 - ** To the right of any statistical result, indicates significance at (P<=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 ***