

TDMS No. 99017 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

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

Date Report Requested: 01/13/2010
Time Report Requested: 11:20:13
First Dose M/F: 08/25/03 / 08/25/03
Lab: BNW

F3_R2

C Number: C99017
Lock Date: 07/24/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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HISTORICAL CONTROL STUDIES

From May 2009 report

SAME ROUTE

20011-05 -- 1-Bromopropane (INHALATION AIR)
96011-05 -- Cumene (INHALATION AIR)
97006-01 -- Methyl isobutyl ketone (INHALATION AIR)
88006-03 -- alpha-Methylstyrene (INHALATION AIR)
97008-05 -- Propargyl alcohol (INHALATION AIR)
93025-07 -- Tetralin (INHALATION AIR)

ALL ROUTES

99024-07 -- Androstenedione (GAVAGE METHYLCELLULOSE)
99028-05 -- bis(2-Chloroethoxy)methane (SKIN ETHANOL)
20011-05 -- 1-Bromopropane (INHALATION AIR)
99027-03 -- Chromium picolinate monohydrate (ORAL FEED)
05174-05 -- Cresols (ORAL FEED)
96011-05 -- Cumene (INHALATION AIR)
97003-07 -- 1,2-Dibromo-2,4-dicyanobutane (SKIN ETHANOL)
93020-07 -- Diisopropylcarbodiimide (SKIN ETHANOL)
88123-05 -- Formamide (GAVAGE WATER)
20005-05 -- Ginseng (GAVAGE WATER)
99007-05 -- Goldenseal root powder (ORAL FEED)
95011-07 -- 5-(Hydroxymethyl)-2-furfural (GAVAGE WATER)
88105-03 -- Isoeugenol (GAVAGE CORN OIL)
20007-05 -- Kava kava extract (GAVAGE CORN OIL)
97006-01 -- Methyl isobutyl ketone (INHALATION AIR)
91005-07 -- Methylene blue trihydrate (GAVAGE METHYLCELLULOSE)
92013-05 -- 4-Methylimidazole (ORAL FEED)
88006-03 -- alpha-Methylstyrene (INHALATION AIR)
20008-03 -- Milk thistle extract (ORAL FEED)
99023-03 -- beta-Myrcene (GAVAGE CORN OIL)
97008-05 -- Propargyl alcohol (INHALATION AIR)

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HISTORICAL CONTROL STUDIES

From May 2009 report

99020-05 -- Pulegone (GAVAGE CORN OIL)

20114-07 -- Sodium dichromate dihydrate (VI) (ORAL WATER)

93025-07 -- Tetralin (INHALATION AIR)

96019-05 -- Water disinfection byproducts (Bromochloroacetic acid) (ORAL WATER)

96017-05 -- Water disinfection byproducts (Dibromoacetic acid) (ORAL WATER)

96015-05 -- Water disinfection byproducts (Dibromoacetonitrile) (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
Clitoral/Preputial Gland
Islets, Pancreatic
Liver
Lung
Pituitary Gland
Testes
Thyroid Gland

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

MALE RATS

Organ

Adrenal Cortex
Adrenal Medulla
Islets, Pancreatic

Skin

Testes
Zymbal's Gland
All Organs

Morphology

Adenoma
Pheochromocytoma Complex
Adenoma
Carcinoma or Adenoma
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma
Adenoma
Carcinoma
Histiocytic Sarcoma
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated
Mesothelioma: Benign, Malignant, NOS
Mesothelioma: Malignant
Benign Tumors

FEMALE RATS

Organ

Adrenal Medulla
Mammary Gland

Pituitary Gland: Pars Distalis or Unspecified Site

All Organs

Morphology

Pheochromocytoma: Benign, Complex, Malignant, NOS
Carcinoma
Carcinoma or Adenoma
Adenoma
Carcinoma or Adenoma
Malignant Tumors

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	6/50 (12%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/42.66	6/42.21	3/44.06	3/45.16
POLY-3 PERCENT (g)	2.3%	14.2%	6.8%	6.6%
TERMINAL (d)	1/28 (4%)	3/21 (14%)	2/25 (8%)	3/36 (8%)
FIRST INCIDENCE	729 (T)	600	687	729 (T)
HC TUMORS SAME ROUTE	1/299 (0%)			
HC TUMORS ALL ROUTES	14/1347 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.525	P=0.053	P=0.317	P=0.326
POLY 1.5	P=0.503	P=0.054	P=0.311	P=0.315
POLY 6	P=0.560	P=0.051	P=0.324	P=0.343
COCH-ARM / FISHERS	P=0.482	P=0.056	P=0.309	P=0.309
MAX-ISO-POLY-3	P=0.188	P=0.023*	P=0.166	P=0.175
HISTCONT SAME RTE	P=0.105	P=0.020*	P=0.027*	P=0.026*
HISTCONT ALL RTEs	P=0.006**	P=0.002**	P=0.044*	P=0.044*

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	7/50 (14%)	6/50 (12%)	9/50 (18%)	9/49 (18%)
POLY-3 RATE (b)	7/42.95	6/42.04	9/44.30	9/45.25
POLY-3 PERCENT (g)	16.3%	14.3%	20.3%	19.9%
TERMINAL (d)	6/28 (21%)	3/21 (14%)	7/25 (28%)	7/36 (19%)
FIRST INCIDENCE	651	674	656	703
HC TUMORS SAME ROUTE	50/299 (17%)			
HC TUMORS ALL ROUTES	190/1345 (14%)			
STATISTICAL TESTS				
POLY 3	P=0.316	P=0.517N	P=0.418	P=0.436
POLY 1.5	P=0.285	P=0.510N	P=0.406	P=0.409
POLY 6	P=0.363	P=0.525N	P=0.435	P=0.477
COCH-ARM / FISHERS	P=0.249	P=0.500N	P=0.393	P=0.376
MAX-ISO-POLY-3	P=0.453	P=0.397N	P=0.316	P=0.335
HISTCONT SAME RTE	P=0.545	P=1.000	P=0.412	P=0.434
HISTCONT ALL RTEs	P=0.362	P=1.000	P=0.337	P=0.355

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma Complex				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/43.22	0/41.57	0/43.89	0/45.09
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	1/28 (4%)	0/21 (0%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	557	---	---	---
HC TUMORS SAME ROUTE	1/299 (0%)			
HC TUMORS ALL ROUTES	6/1345 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.113N	P=0.246N	P=0.233N	P=0.228N
POLY 1.5	P=0.114N	P=0.242N	P=0.235N	P=0.234N
POLY 6	P=0.111N	P=0.251N	P=0.231N	P=0.219N
COCH-ARM / FISHERS	P=0.117N	P=0.247N	P=0.247N	P=0.253N
MAX-ISO-POLY-3	P=0.033N*	P=0.084N	P=0.076N	P=0.077N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	1/42.66	0/41.57	2/43.89	1/45.09
POLY-3 PERCENT (g)	2.3%	0%	4.6%	2.2%
TERMINAL (d)	1/28 (4%)	0/21 (0%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
HC TUMORS SAME ROUTE	10/299 (3%)			
HC TUMORS ALL ROUTES	26/1345 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.533	P=0.505N	P=0.510	P=0.748N
POLY 1.5	P=0.515	P=0.503N	P=0.505	P=0.756N
POLY 6	P=0.559	P=0.508N	P=0.516	P=0.737N
COCH-ARM / FISHERS	P=0.493	P=0.500N	P=0.500	P=0.747
MAX-ISO-POLY-3	P=0.409	P=0.165N	P=0.291	P=0.484N
HISTCONT SAME RTE	P=0.494	(e)	P=0.377	P=1.000
HISTCONT ALL RTEs	P=0.477	(e)	P=0.364	P=1.000

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	10/50 (20%)	6/50 (12%)	11/50 (22%)	10/49 (20%)
POLY-3 RATE (b)	10/43.50	6/42.04	11/44.30	10/45.25
POLY-3 PERCENT (g)	23%	14.3%	24.8%	22.1%
TERMINAL (d)	8/28 (29%)	3/21 (14%)	9/25 (36%)	8/36 (22%)
FIRST INCIDENCE	557	674	656	703
HC TUMORS SAME ROUTE	58/299 (19%)			
HC TUMORS ALL ROUTES	217/1345 (16%)			
STATISTICAL TESTS				
POLY 3	P=0.447	P=0.223N	P=0.519	P=0.561N
POLY 1.5	P=0.412	P=0.217N	P=0.509	P=0.587N
POLY 6	P=0.500	P=0.232N	P=0.534	P=0.522N
COCH-ARM / FISHERS	P=0.370	P=0.207N	P=0.500	P=0.579
MAX-ISO-POLY-3	P=0.471	P=0.153N	P=0.418	P=0.460N
HISTCONT SAME RTE	P=0.567	P=1.000	P=0.436	P=1.000
HISTCONT ALL RTEs	P=0.388	P=1.000	P=0.259	P=0.397

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Clitoral/Preputial Gland Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	1/41.57	2/44.48	0/45.16
POLY-3 PERCENT (g)	0%	2.4%	4.5%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	624	---
HC TUMORS SAME ROUTE	7/299 (2%)			
HC TUMORS ALL ROUTES	53/1346 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.591N	P=0.495	P=0.246	(e)
POLY 1.5	P=0.604N	P=0.497	P=0.242	(e)
POLY 6	P=0.571N	P=0.492	P=0.253	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.334N	P=0.158	P=0.085	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Clitoral/Preputial Gland Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.74	2/42.09	2/44.48	0/45.16
POLY-3 PERCENT (g)	2.3%	4.8%	4.5%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	710	571	624	---
HC TUMORS SAME ROUTE	12/299 (4%)			
HC TUMORS ALL ROUTES	70/1346 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.274N	P=0.495	P=0.514	P=0.489N
POLY 1.5	P=0.285N	P=0.497	P=0.507	P=0.495N
POLY 6	P=0.257N	P=0.491	P=0.523	P=0.480N
COCH-ARM / FISHERS	P=0.296N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.234N	P=0.277	P=0.296	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Intestine Small: Site Unspecified Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	2/41.57	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
HC TUMORS SAME ROUTE	0/299 (0%)			
HC TUMORS ALL ROUTES	0/1348 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.396N	P=0.231	(e)	(e)
POLY 1.5	P=0.399N	P=0.234	(e)	(e)
POLY 6	P=0.390N	P=0.227	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.246N	P=0.075	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	6/50 (12%)	8/50 (16%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	6/42.66	8/42.84	7/44.01	2/45.16
POLY-3 PERCENT (g)	14.1%	18.7%	15.9%	4.4%
TERMINAL (d)	6/28 (21%)	2/21 (10%)	5/25 (20%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	646	714	729 (T)
HC TUMORS SAME ROUTE	14/299 (5%)			
HC TUMORS ALL ROUTES	84/1344 (6%)			
STATISTICAL TESTS				
POLY 3	P=0.061N	P=0.388	P=0.524	P=0.114N
POLY 1.5	P=0.071N	P=0.386	P=0.513	P=0.124N
POLY 6	P=0.048N*	P=0.397	P=0.541	P=0.100N
COCH-ARM / FISHERS	P=0.083N	P=0.387	P=0.500	P=0.134N
MAX-ISO-POLY-3	P=0.081N	P=0.283	P=0.405	P=0.062N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Islets, Pancreatic Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/42.66	3/41.87	2/43.91	1/45.16
POLY-3 PERCENT (g)	2.3%	7.2%	4.6%	2.2%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	1/25 (4%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	677	724	729 (T)
HC TUMORS SAME ROUTE	16/299 (5%)			
HC TUMORS ALL ROUTES	28/1344 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.445N	P=0.298	P=0.510	P=0.748N
POLY 1.5	P=0.460N	P=0.301	P=0.505	P=0.755N
POLY 6	P=0.423N	P=0.294	P=0.517	P=0.737N
COCH-ARM / FISHERS	P=0.473N	P=0.309	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.449N	P=0.150	P=0.292	P=0.484N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	7/50 (14%)	11/50 (22%)	9/50 (18%)	3/50 (6%)
POLY-3 RATE (b)	7/42.66	11/43.15	9/44.03	3/45.16
POLY-3 PERCENT (g)	16.4%	25.5%	20.4%	6.6%
TERMINAL (d)	7/28 (25%)	3/21 (14%)	6/25 (24%)	3/36 (8%)
FIRST INCIDENCE	729 (T)	646	714	729 (T)
HC TUMORS SAME ROUTE	30/299 (10%)			
HC TUMORS ALL ROUTES	112/1344 (8%)			
STATISTICAL TESTS				
POLY 3	P=0.055N	P=0.219	P=0.418	P=0.134N
POLY 1.5	P=0.066N	P=0.216	P=0.406	P=0.146N
POLY 6	P=0.040N*	P=0.230	P=0.436	P=0.116N
COCH-ARM / FISHERS	P=0.079N	P=0.218	P=0.393	P=0.159N
MAX-ISO-POLY-3	P=0.061N	P=0.150	P=0.317	P=0.080N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	0/41.57	2/43.89	0/45.16
POLY-3 PERCENT (g)	0%	0%	4.6%	0%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	2/25 (8%)	0/36 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	16/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.629	(e)	P=0.243	(e)
POLY 1.5	P=0.612	(e)	P=0.241	(e)
POLY 6	P=0.657	(e)	P=0.247	(e)
COCH-ARM / FISHERS	P=0.594	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.268	(e)	P=0.082	(e)
HISTCONT SAME RTE	P=0.322	(e)	P=0.067	(e)
HISTCONT ALL RTEs	P=0.310	(e)	P=0.093	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.66	1/41.57	1/44.06	2/45.16
POLY-3 PERCENT (g)	2.3%	2.4%	2.3%	4.4%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	0/25 (0%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	687	729 (T)
HC TUMORS SAME ROUTE	3/299 (1%)			
HC TUMORS ALL ROUTES	13/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.375	P=0.755	P=0.754N	P=0.520
POLY 1.5	P=0.363	P=0.757	P=0.757N	P=0.509
POLY 6	P=0.395	P=0.752	P=0.749N	P=0.536
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.457	P=0.492	P=0.490N	P=0.302
HISTCONT SAME RTE	P=0.072	P=0.322	P=0.338	P=0.080
HISTCONT ALL RTEs	P=0.013*	P=0.283	P=0.298	P=0.033*

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.66	2/41.78	1/44.06	2/45.16
POLY-3 PERCENT (g)	2.3%	4.8%	2.3%	4.4%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	0/25 (0%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	674	687	729 (T)
HC TUMORS SAME ROUTE	7/299 (2%)			
HC TUMORS ALL ROUTES	44/1348 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.471	P=0.493	P=0.754N	P=0.520
POLY 1.5	P=0.458	P=0.495	P=0.757N	P=0.509
POLY 6	P=0.493	P=0.489	P=0.749N	P=0.536
COCH-ARM / FISHERS	P=0.445	P=0.500	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.483	P=0.276	P=0.490N	P=0.302
HISTCONT SAME RTE	P=0.563	P=0.357	P=1.000	P=0.390
HISTCONT ALL RTEs	P=0.564	P=0.344	P=1.000	P=0.378

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	1/41.57	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
HC TUMORS SAME ROUTE	4/299 (1%)			
HC TUMORS ALL ROUTES	7/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.565N	P=0.495	(e)	(e)
POLY 1.5	P=0.565N	P=0.497	(e)	(e)
POLY 6	P=0.564N	P=0.492	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.383N	P=0.158	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	2/41.66	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	705	---	---
HC TUMORS SAME ROUTE	6/299 (2%)			
HC TUMORS ALL ROUTES	11/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.395N	P=0.232	(e)	(e)
POLY 1.5	P=0.399N	P=0.234	(e)	(e)
POLY 6	P=0.389N	P=0.228	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.246N	P=0.076	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/42.66	2/41.64	3/43.89	1/45.16
POLY-3 PERCENT (g)	4.7%	4.8%	6.8%	2.2%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	3/25 (12%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	710	729 (T)	729 (T)
HC TUMORS SAME ROUTE	7/299 (2%)			
HC TUMORS ALL ROUTES	46/1348 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.372N	P=0.686	P=0.513	P=0.480N
POLY 1.5	P=0.389N	P=0.689	P=0.507	P=0.491N
POLY 6	P=0.347N	P=0.681	P=0.521	P=0.463N
COCH-ARM / FISHERS	P=0.404N	P=0.691N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.389N	P=0.489	P=0.337	P=0.269N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/42.66	3/41.74	3/43.89	1/45.16
POLY-3 PERCENT (g)	4.7%	7.2%	6.8%	2.2%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	3/25 (12%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	705	729 (T)	729 (T)
HC TUMORS SAME ROUTE	9/299 (3%)			
HC TUMORS ALL ROUTES	52/1348 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.312N	P=0.490	P=0.513	P=0.480N
POLY 1.5	P=0.328N	P=0.494	P=0.507	P=0.491N
POLY 6	P=0.288N	P=0.485	P=0.521	P=0.463N
COCH-ARM / FISHERS	P=0.343N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.330N	P=0.316	P=0.337	P=0.269N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/42.66	4/41.74	3/43.89	1/45.16
POLY-3 PERCENT (g)	4.7%	9.6%	6.8%	2.2%
TERMINAL (d)	2/28 (7%)	2/21 (10%)	3/25 (12%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	705	729 (T)	729 (T)
HC TUMORS SAME ROUTE	13/299 (4%)			
HC TUMORS ALL ROUTES	58/1348 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.261N	P=0.326	P=0.513	P=0.480N
POLY 1.5	P=0.277N	P=0.331	P=0.507	P=0.491N
POLY 6	P=0.237N	P=0.320	P=0.521	P=0.463N
COCH-ARM / FISHERS	P=0.291N	P=0.339	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.271N	P=0.194	P=0.337	P=0.269N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	31/50 (62%)	32/48 (67%)	31/50 (62%)	26/50 (52%)
POLY-3 RATE (b)	31/46.10	32/44.63	31/46.57	26/46.76
POLY-3 PERCENT (g)	67.2%	71.7%	66.6%	55.6%
TERMINAL (d)	17/28 (61%)	14/20 (70%)	17/25 (68%)	20/36 (56%)
FIRST INCIDENCE	557	455	453	562
HC TUMORS SAME ROUTE	214/298 (72%)			
HC TUMORS ALL ROUTES	610/1343 (45%)			
STATISTICAL TESTS				
POLY 3	P=0.083N	P=0.404	P=0.562N	P=0.168N
POLY 1.5	P=0.102N	P=0.399	P=0.567N	P=0.189N
POLY 6	P=0.064N	P=0.406	P=0.573N	P=0.144N
COCH-ARM / FISHERS	P=0.121N	P=0.393	P=0.582N	P=0.210N
MAX-ISO-POLY-3	P=0.118N	P=0.317	P=0.470N	P=0.120N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	0/39.64	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/20 (0%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/298 (0%)			
HC TUMORS ALL ROUTES	6/1343 (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)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	31/50 (62%)	32/48 (67%)	31/50 (62%)	26/50 (52%)
POLY-3 RATE (b)	31/46.10	32/44.63	31/46.57	26/46.76
POLY-3 PERCENT (g)	67.2%	71.7%	66.6%	55.6%
TERMINAL (d)	17/28 (61%)	14/20 (70%)	17/25 (68%)	20/36 (56%)
FIRST INCIDENCE	557	455	453	562
HC TUMORS SAME ROUTE	215/298 (72%)			
HC TUMORS ALL ROUTES	616/1343 (46%)			
STATISTICAL TESTS				
POLY 3	P=0.083N	P=0.404	P=0.562N	P=0.168N
POLY 1.5	P=0.102N	P=0.399	P=0.567N	P=0.189N
POLY 6	P=0.064N	P=0.406	P=0.573N	P=0.144N
COCH-ARM / FISHERS	P=0.121N	P=0.393	P=0.582N	P=0.210N
MAX-ISO-POLY-3	P=0.118N	P=0.317	P=0.470N	P=0.120N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/42.92	3/42.01	3/44.42	1/45.16
POLY-3 PERCENT (g)	2.3%	7.1%	6.8%	2.2%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	660	600	569	729 (T)
HC TUMORS SAME ROUTE	18/299 (6%)			
HC TUMORS ALL ROUTES	115/1348 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.469N	P=0.297	P=0.317	P=0.749N
POLY 1.5	P=0.485N	P=0.300	P=0.312	P=0.755N
POLY 6	P=0.444N	P=0.291	P=0.324	P=0.740N
COCH-ARM / FISHERS	P=0.499N	P=0.309	P=0.309	P=0.753N
MAX-ISO-POLY-3	P=0.391N	P=0.150	P=0.167	P=0.485N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.66	4/42.26	2/43.96	0/45.16
POLY-3 PERCENT (g)	2.3%	9.5%	4.6%	0%
TERMINAL (d)	1/28 (4%)	2/21 (10%)	1/25 (4%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	600	712	---
HC TUMORS SAME ROUTE	20/299 (7%)			
HC TUMORS ALL ROUTES	124/1348 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.176N	P=0.175	P=0.510	P=0.489N
POLY 1.5	P=0.187N	P=0.176	P=0.505	P=0.495N
POLY 6	P=0.159N	P=0.173	P=0.517	P=0.479N
COCH-ARM / FISHERS	P=0.198N	P=0.181	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.133N	P=0.082	P=0.292	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	8/50 (16%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/42.66	8/42.77	2/43.96	0/45.16
POLY-3 PERCENT (g)	4.7%	18.7%	4.6%	0%
TERMINAL (d)	2/28 (7%)	3/21 (14%)	1/25 (4%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	600	712	---
HC TUMORS SAME ROUTE	26/299 (9%)			
HC TUMORS ALL ROUTES	152/1348 (11%)			
STATISTICAL TESTS				
POLY 3	P=0.039N*	P=0.044*	P=0.683N	P=0.225N
POLY 1.5	P=0.044N*	P=0.044*	P=0.688N	P=0.231N
POLY 6	P=0.032N*	P=0.044*	P=0.677N	P=0.214N
COCH-ARM / FISHERS	P=0.053N	P=0.046*	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.022N*	P=0.020*	P=0.487N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.66	4/42.08	0/43.89	0/45.16
POLY-3 PERCENT (g)	2.3%	9.5%	0%	0%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	635	---	---
HC TUMORS SAME ROUTE	6/299 (2%)			
HC TUMORS ALL ROUTES	29/1348 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.112N	P=0.173	P=0.494N	P=0.489N
POLY 1.5	P=0.117N	P=0.176	P=0.497N	P=0.495N
POLY 6	P=0.105N	P=0.171	P=0.491N	P=0.479N
COCH-ARM / FISHERS	P=0.124N	P=0.181	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.079N	P=0.082	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/42.66	2/41.57	2/43.89	1/45.16
POLY-3 PERCENT (g)	0%	4.8%	4.6%	2.2%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	10/299 (3%)			
HC TUMORS ALL ROUTES	66/1348 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.503	P=0.231	P=0.243	P=0.511
POLY 1.5	P=0.486	P=0.234	P=0.241	P=0.505
POLY 6	P=0.531	P=0.227	P=0.247	P=0.521
COCH-ARM / FISHERS	P=0.470	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.238	P=0.075	P=0.082	P=0.173
HISTCONT SAME RTE	P=0.287	P=0.091	P=0.099	P=0.217
HISTCONT ALL RTEs	P=0.275	P=0.086	P=0.093	P=0.206

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	2/41.98	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	635	---	---
HC TUMORS SAME ROUTE	0/299 (0%)			
HC TUMORS ALL ROUTES	7/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.394N	P=0.233	(e)	(e)
POLY 1.5	P=0.399N	P=0.235	(e)	(e)
POLY 6	P=0.387N	P=0.231	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.248N	P=0.076	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/42.66	2/41.57	3/44.42	1/45.16
POLY-3 PERCENT (g)	0%	4.8%	6.8%	2.2%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	---	729 (T)	569	729 (T)
HC TUMORS SAME ROUTE	11/299 (4%)			
HC TUMORS ALL ROUTES	89/1348 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.484	P=0.231	P=0.126	P=0.511
POLY 1.5	P=0.463	P=0.234	P=0.123	P=0.505
POLY 6	P=0.517	P=0.227	P=0.130	P=0.521
COCH-ARM / FISHERS	P=0.445	P=0.247	P=0.121	P=0.500
MAX-ISO-POLY-3	P=0.201	P=0.075	P=0.044*	P=0.173
HISTCONT SAME RTE	P=0.242	P=0.091	P=0.050*	P=0.217
HISTCONT ALL RTEs	P=0.232	P=0.086	P=0.047*	P=0.206

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Testes				
Adenoma				
TUMOR RATES				
OVERALL (a)	36/50 (72%)	37/50 (74%)	39/50 (78%)	43/50 (86%)
POLY-3 RATE (b)	36/45.81	37/45.93	39/47.71	43/47.41
POLY-3 PERCENT (g)	78.6%	80.6%	81.7%	90.7%
TERMINAL (d)	27/28 (96%)	17/21 (81%)	21/25 (84%)	34/36 (94%)
FIRST INCIDENCE	549	478	569	611
HC TUMORS SAME ROUTE	212/299 (71%)			
HC TUMORS ALL ROUTES	1124/1348 (83%)			
STATISTICAL TESTS				
POLY 3	P=0.051	P=0.510	P=0.447	P=0.067
POLY 1.5	P=0.041*	P=0.495	P=0.378	P=0.058
POLY 6	P=0.084	P=0.562	P=0.577	P=0.108
COCH-ARM / FISHERS	P=0.046*	P=0.500	P=0.322	P=0.070
MAX-ISO-POLY-3	P=0.075	P=0.397	P=0.343	P=0.037*
HISTCONT SAME RTE	P=0.052	P=0.463	P=0.389	P=0.040*
HISTCONT ALL RTEs	P=0.083	P=0.500	P=0.428	P=0.038*

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	7/50 (14%)	5/50 (10%)	3/50 (6%)	9/50 (18%)
POLY-3 RATE (b)	7/43.64	5/42.46	3/44.37	9/45.78
POLY-3 PERCENT (g)	16%	11.8%	6.8%	19.7%
TERMINAL (d)	3/28 (11%)	2/21 (10%)	1/25 (4%)	6/36 (17%)
FIRST INCIDENCE	621	512	596	634
HC TUMORS SAME ROUTE	21/298 (7%)			
HC TUMORS ALL ROUTES	168/1341 (13%)			
STATISTICAL TESTS				
POLY 3	P=0.309	P=0.398N	P=0.149N	P=0.432
POLY 1.5	P=0.293	P=0.390N	P=0.153N	P=0.411
POLY 6	P=0.338	P=0.412N	P=0.145N	P=0.467
COCH-ARM / FISHERS	P=0.278	P=0.380N	P=0.159N	P=0.393
MAX-ISO-POLY-3	P=0.214	P=0.287N	P=0.086N	P=0.331
HISTCONT SAME RTE	P=0.072	P=0.371	P=1.000	P=0.073
HISTCONT ALL RTEs	P=0.244	P=1.000	P=1.000	P=0.346

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Thyroid Gland: C-Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.87	3/41.66	1/43.89	0/45.16
POLY-3 PERCENT (g)	2.3%	7.2%	2.3%	0%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	1/25 (4%)	0/36 (0%)
FIRST INCIDENCE	675	705	729 (T)	---
HC TUMORS SAME ROUTE	12/298 (4%)			
HC TUMORS ALL ROUTES	40/1341 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.185N	P=0.294	P=0.756N	P=0.490N
POLY 1.5	P=0.192N	P=0.299	P=0.758N	P=0.495N
POLY 6	P=0.175N	P=0.287	P=0.753N	P=0.481N
COCH-ARM / FISHERS	P=0.199N	P=0.309	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.152N	P=0.149	P=0.493N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	8/50 (16%)	8/50 (16%)	4/50 (8%)	9/50 (18%)
POLY-3 RATE (b)	8/43.85	8/42.55	4/44.37	9/45.78
POLY-3 PERCENT (g)	18.2%	18.8%	9%	19.7%
TERMINAL (d)	3/28 (11%)	4/21 (19%)	2/25 (8%)	6/36 (17%)
FIRST INCIDENCE	621	512	596	634
HC TUMORS SAME ROUTE	31/298 (10%)			
HC TUMORS ALL ROUTES	206/1341 (15%)			
STATISTICAL TESTS				
POLY 3	P=0.529	P=0.583	P=0.169N	P=0.539
POLY 1.5	P=0.507	P=0.594	P=0.173N	P=0.518
POLY 6	P=0.551N	P=0.564	P=0.166N	P=0.572
COCH-ARM / FISHERS	P=0.487	P=0.607N	P=0.178N	P=0.500
MAX-ISO-POLY-3	P=0.466	P=0.473	P=0.103N	P=0.432
HISTCONT SAME RTE	P=0.324	P=0.279	P=1.000	P=0.223
HISTCONT ALL RTEs	P=0.542	P=0.576	P=1.000	P=0.526

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Zymbal's Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.66	1/41.57	0/43.89	0/45.16
POLY-3 PERCENT (g)	4.7%	2.4%	0%	0%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
HC TUMORS SAME ROUTE	0/299 (0%)			
HC TUMORS ALL ROUTES	2/1348 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.097N	P=0.509N	P=0.231N	P=0.225N
POLY 1.5	P=0.099N	P=0.505N	P=0.234N	P=0.231N
POLY 6	P=0.094N	P=0.515N	P=0.226N	P=0.214N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.290N	P=0.076N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Zymbal's Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.66	3/42.82	0/43.89	2/45.26
POLY-3 PERCENT (g)	0%	7%	0%	4.4%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	0/25 (0%)	1/36 (3%)
FIRST INCIDENCE	---	583	---	702
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	9/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.374	P=0.119	(e)	P=0.250
POLY 1.5	P=0.362	P=0.119	(e)	P=0.244
POLY 6	P=0.393	P=0.119	(e)	P=0.262
COCH-ARM / FISHERS	P=0.353	P=0.121	(e)	P=0.247
MAX-ISO-POLY-3	P=0.178	P=0.038*	(e)	P=0.089
HISTCONT SAME RTE	P=0.213	P=0.039*	(e)	P=0.064
HISTCONT ALL RTEs	P=0.072	P=0.012*	(e)	P=0.062

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Zymbal's Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/42.66	4/42.82	0/43.89	2/45.26
POLY-3 PERCENT (g)	4.7%	9.3%	0%	4.4%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	0/25 (0%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	583	---	702
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	11/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.383N	P=0.338	P=0.231N	P=0.673N
POLY 1.5	P=0.393N	P=0.337	P=0.234N	P=0.684N
POLY 6	P=0.367N	P=0.340	P=0.226N	P=0.654N
COCH-ARM / FISHERS	P=0.402N	P=0.339	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.238N	P=0.201	P=0.076N	P=0.475N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.66	0/41.57	0/43.89	2/45.52
POLY-3 PERCENT (g)	0%	0%	0%	4.4%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	0/25 (0%)	1/36 (3%)
FIRST INCIDENCE	---	---	---	628
HC TUMORS SAME ROUTE	1/299 (0%)			
HC TUMORS ALL ROUTES	11/1348 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.049*	(e)	(e)	P=0.252
POLY 1.5	P=0.047*	(e)	(e)	P=0.244
POLY 6	P=0.052	(e)	(e)	P=0.264
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.044*	(e)	(e)	P=0.090
HISTCONT SAME RTE	P=0.037*	(e)	(e)	P=0.040*
HISTCONT ALL RTEs	P=0.050*	(e)	(e)	P=0.080

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	25/50 (50%)	18/50 (36%)	33/50 (66%)	24/50 (48%)
POLY-3 RATE (b)	25/47.53	18/43.67	33/47.68	24/47.68
POLY-3 PERCENT (g)	52.6%	41.2%	69.2%	50.3%
TERMINAL (d)	12/28 (43%)	9/21 (43%)	16/25 (64%)	16/36 (44%)
FIRST INCIDENCE	505	473	475	527
HC TUMORS SAME ROUTE	152/299 (51%)			
HC TUMORS ALL ROUTES	511/1348 (38%)			
STATISTICAL TESTS				
POLY 3	P=0.421	P=0.185N	P=0.068	P=0.494N
POLY 1.5	P=0.378	P=0.150N	P=0.070	P=0.505N
POLY 6	P=0.495	P=0.244N	P=0.068	P=0.467N
COCH-ARM / FISHERS	P=0.349	P=0.113N	P=0.078	P=0.500N
MAX-ISO-POLY-3	P=0.157	P=0.143N	P=0.044*	P=0.410N
HISTCONT SAME RTE	P=0.186	P=1.000	P=0.050*	P=1.000
HISTCONT ALL RTEs	P=0.139	P=1.000	P=0.047*	P=0.383

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	3/42.01	1/43.95	0/45.16
POLY-3 PERCENT (g)	0%	7.1%	2.3%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	635	715	---
HC TUMORS SAME ROUTE	5/299 (2%)			
HC TUMORS ALL ROUTES	36/1348 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.343N	P=0.115	P=0.506	(e)
POLY 1.5	P=0.354N	P=0.117	P=0.503	(e)
POLY 6	P=0.327N	P=0.114	P=0.510	(e)
COCH-ARM / FISHERS	P=0.364N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.222N	P=0.038*	P=0.166	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	3/42.01	1/43.95	0/45.16
POLY-3 PERCENT (g)	0%	7.1%	2.3%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	635	715	---
HC TUMORS SAME ROUTE	5/299 (2%)			
HC TUMORS ALL ROUTES	35/1348 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.343N	P=0.115	P=0.506	(e)
POLY 1.5	P=0.354N	P=0.117	P=0.503	(e)
POLY 6	P=0.327N	P=0.114	P=0.510	(e)
COCH-ARM / FISHERS	P=0.364N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.222N	P=0.038*	P=0.166	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	44/50 (88%)	48/50 (96%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	44/47.30	48/48.75	49/49.28	48/48.44
POLY-3 PERCENT (g)	93%	98.5%	99.4%	99.1%
TERMINAL (d)	27/28 (96%)	21/21 (100%)	25/25 (100%)	36/36 (100%)
FIRST INCIDENCE	549	455	453	562
HC TUMORS SAME ROUTE	290/299 (97%)			
HC TUMORS ALL ROUTES	1306/1348 (97%)			
STATISTICAL TESTS				
POLY 3	P=0.035*	P=0.147	P=0.073	P=0.098
POLY 1.5	P=0.042*	P=0.131	P=0.057	P=0.089
POLY 6	P=0.069	P=0.231	P=0.166	P=0.188
COCH-ARM / FISHERS	P=0.095	P=0.134	P=0.056	P=0.134
MAX-ISO-POLY-3	P=0.007**	P=0.046*	P=0.018*	P=0.026*
HISTCONT SAME RTE	P=0.007**	P=0.053	P=0.019*	P=0.028*
HISTCONT ALL RTEs	P=0.007**	P=0.050*	P=0.018*	P=0.026*

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	31/50 (62%)	31/50 (62%)	37/50 (74%)	32/50 (64%)
POLY-3 RATE (b)	31/48.55	31/46.78	37/48.51	32/48.15
POLY-3 PERCENT (g)	63.9%	66.3%	76.3%	66.5%
TERMINAL (d)	15/28 (54%)	13/21 (62%)	17/25 (68%)	22/36 (61%)
FIRST INCIDENCE	505	473	475	527
HC TUMORS SAME ROUTE	202/299 (68%)			
HC TUMORS ALL ROUTES	753/1348 (56%)			
STATISTICAL TESTS				
POLY 3	P=0.395	P=0.487	P=0.128	P=0.478
POLY 1.5	P=0.380	P=0.527	P=0.131	P=0.475
POLY 6	P=0.435	P=0.434	P=0.129	P=0.495
COCH-ARM / FISHERS	P=0.391	P=0.582N	P=0.142	P=0.500
MAX-ISO-POLY-3	P=0.338	P=0.401	P=0.087	P=0.392
HISTCONT SAME RTE	P=0.407	P=0.524	P=0.105	P=0.509
HISTCONT ALL RTEs	P=0.184	P=0.406	P=0.099	P=0.393

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

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Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	49/50 (98%)	50/50 (100%)	50/50 (100%)	49/50 (98%)
POLY-3 RATE (b)	49/49.46	50/50.00	50/50.00	49/49.06
POLY-3 PERCENT (g)	99.1%	100%	100%	99.9%
TERMINAL (d)	28/28 (100%)	21/21 (100%)	25/25 (100%)	36/36 (100%)
FIRST INCIDENCE	505	455	453	527
HC TUMORS SAME ROUTE	299/299 (100%)			
HC TUMORS ALL ROUTES	1339/1348 (99%)			
STATISTICAL TESTS				
POLY 3	P=0.689	P=0.879	P=0.879	P=0.904
POLY 1.5	P=0.639	P=0.682	P=0.682	P=0.787
POLY 6	P=0.980	P=1.000	P=1.000	P=1.000
COCH-ARM / FISHERS	P=0.594N	P=0.500	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.148	P=0.160	P=0.160	P=0.201
HISTCONT SAME RTE	P=0.176	(e)	(e)	P=0.256
HISTCONT ALL RTEs	P=0.169	P=0.190	P=0.190	P=0.243

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	6/50 (12%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	4/43.40	6/45.17	2/43.69	6/44.78
POLY-3 PERCENT (g)	9.2%	13.3%	4.6%	13.4%
TERMINAL (d)	2/31 (7%)	5/31 (16%)	1/30 (3%)	3/34 (9%)
FIRST INCIDENCE	688	706	682	647
HC TUMORS SAME ROUTE	13/300 (4%)			
HC TUMORS ALL ROUTES	24/1296 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.414	P=0.395	P=0.334N	P=0.389
POLY 1.5	P=0.409	P=0.388	P=0.335N	P=0.381
POLY 6	P=0.423	P=0.395	P=0.334N	P=0.399
COCH-ARM / FISHERS	P=0.402	P=0.370	P=0.339N	P=0.370
MAX-ISO-POLY-3	P=0.410	P=0.278	P=0.198N	P=0.272
HISTCONT SAME RTE	P=0.277	P=0.225	P=1.000	P=0.223
HISTCONT ALL RTEs	P=0.006**	P=0.032*	P=0.413	P=0.032*

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	1/45.08	2/43.85	1/44.02
POLY-3 PERCENT (g)	0%	2.2%	4.6%	2.3%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	0/30 (0%)	1/34 (3%)
FIRST INCIDENCE	---	730 (T)	639	730 (T)
HC TUMORS SAME ROUTE	10/299 (3%)			
HC TUMORS ALL ROUTES	37/1288 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.373	P=0.509	P=0.241	P=0.504
POLY 1.5	P=0.371	P=0.506	P=0.239	P=0.503
POLY 6	P=0.376	P=0.510	P=0.242	P=0.506
COCH-ARM / FISHERS	P=0.366	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.237	P=0.169	P=0.079	P=0.164
HISTCONT SAME RTE	P=0.285	P=0.213	P=0.096	P=0.205
HISTCONT ALL RTEs	P=0.273	P=0.202	P=0.090	P=0.194

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma Complex				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	4/1288 (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)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	1/45.39	1/43.50	1/44.49
POLY-3 PERCENT (g)	0%	2.2%	2.3%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	1/30 (3%)	0/34 (0%)
FIRST INCIDENCE	---	645	730 (T)	592
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	8/1288 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.395	P=0.510	P=0.502	P=0.506
POLY 1.5	P=0.391	P=0.507	P=0.501	P=0.504
POLY 6	P=0.400	P=0.512	P=0.502	P=0.509
COCH-ARM / FISHERS	P=0.384	P=0.500	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.342	P=0.171	P=0.161	P=0.166
HISTCONT SAME RTE	P=0.334	P=0.215	P=0.201	P=0.208
HISTCONT ALL RTEs	P=0.204	P=0.205	P=0.191	P=0.198

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/43.14	2/45.39	3/43.85	2/44.49
POLY-3 PERCENT (g)	0%	4.4%	6.8%	4.5%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	---	645	639	592
HC TUMORS SAME ROUTE	14/299 (5%)			
HC TUMORS ALL ROUTES	49/1288 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.248	P=0.249	P=0.121	P=0.244
POLY 1.5	P=0.244	P=0.245	P=0.120	P=0.241
POLY 6	P=0.254	P=0.251	P=0.122	P=0.247
COCH-ARM / FISHERS	P=0.237	P=0.247	P=0.121	P=0.247
MAX-ISO-POLY-3	P=0.145	P=0.087	P=0.040*	P=0.082
HISTCONT SAME RTE	P=0.173	P=0.105	P=0.046*	P=0.099
HISTCONT ALL RTEs	P=0.166	P=0.100	P=0.043*	P=0.094

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Clitoral/Preputial Gland Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/43.14	2/45.38	3/43.50	2/44.23
POLY-3 PERCENT (g)	2.3%	4.4%	6.9%	4.5%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	3/30 (10%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	646	730 (T)	675
HC TUMORS SAME ROUTE	8/299 (3%)			
HC TUMORS ALL ROUTES	124/1297 (10%)			
STATISTICAL TESTS				
POLY 3	P=0.411	P=0.518	P=0.308	P=0.509
POLY 1.5	P=0.408	P=0.512	P=0.307	P=0.505
POLY 6	P=0.417	P=0.522	P=0.308	P=0.513
COCH-ARM / FISHERS	P=0.404	P=0.500	P=0.309	P=0.500
MAX-ISO-POLY-3	P=0.370	P=0.300	P=0.157	P=0.290
HISTCONT SAME RTE	P=0.447	P=0.388	P=0.196	P=0.374
HISTCONT ALL RTEs	P=0.431	P=0.376	P=0.186	P=0.361

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Clitoral/Preputial Gland Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/43.14	2/45.38	4/43.52	2/44.23
POLY-3 PERCENT (g)	2.3%	4.4%	9.2%	4.5%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	3/30 (10%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	646	725	675
HC TUMORS SAME ROUTE	17/299 (6%)			
HC TUMORS ALL ROUTES	161/1297 (12%)			
STATISTICAL TESTS				
POLY 3	P=0.394	P=0.518	P=0.181	P=0.509
POLY 1.5	P=0.391	P=0.512	P=0.180	P=0.505
POLY 6	P=0.400	P=0.522	P=0.180	P=0.513
COCH-ARM / FISHERS	P=0.386	P=0.500	P=0.181	P=0.500
MAX-ISO-POLY-3	P=0.279	P=0.300	P=0.086	P=0.290
HISTCONT SAME RTE	P=0.336	P=0.388	P=0.104	P=0.374
HISTCONT ALL RTEs	P=0.324	P=0.376	P=0.098	P=0.361

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Intestine Small: Site Unspecified Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	0/1300 (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)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/43.38	1/45.08	2/43.90	1/44.02
POLY-3 PERCENT (g)	4.6%	2.2%	4.6%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	665	730 (T)	618	730 (T)
HC TUMORS SAME ROUTE	5/300 (2%)			
HC TUMORS ALL ROUTES	21/1290 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.446N	P=0.487N	P=0.690N	P=0.495N
POLY 1.5	P=0.446N	P=0.490N	P=0.691N	P=0.496N
POLY 6	P=0.445N	P=0.486N	P=0.689N	P=0.494N
COCH-ARM / FISHERS	P=0.445N	P=0.500N	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.445N	P=0.273N	P=0.494N	P=0.277N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Islets, Pancreatic Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	2/43.61	0/44.02
POLY-3 PERCENT (g)	0%	0%	4.6%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	1/30 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	702	---
HC TUMORS SAME ROUTE	2/300 (1%)			
HC TUMORS ALL ROUTES	4/1290 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.599	(e)	P=0.239	(e)
POLY 1.5	P=0.597	(e)	P=0.239	(e)
POLY 6	P=0.602	(e)	P=0.240	(e)
COCH-ARM / FISHERS	P=0.594	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.257	(e)	P=0.078	(e)
HISTCONT SAME RTE	P=0.309	(e)	P=0.068	(e)
HISTCONT ALL RTEs	P=0.194	(e)	P=0.004**	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/43.38	1/45.08	4/44.01	1/44.02
POLY-3 PERCENT (g)	4.6%	2.2%	9.1%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	2/30 (7%)	1/34 (3%)
FIRST INCIDENCE	665	730 (T)	618	730 (T)
HC TUMORS SAME ROUTE	7/300 (2%)			
HC TUMORS ALL ROUTES	25/1290 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.501N	P=0.487N	P=0.343	P=0.495N
POLY 1.5	P=0.501N	P=0.490N	P=0.341	P=0.496N
POLY 6	P=0.500N	P=0.486N	P=0.345	P=0.494N
COCH-ARM / FISHERS	P=0.501N	P=0.500N	P=0.339	P=0.500N
MAX-ISO-POLY-3	P=0.406N	P=0.273N	P=0.207	P=0.277N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	16/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.313N	P=0.491N	P=0.498N	P=0.496N
POLY 1.5	P=0.311N	P=0.494N	P=0.499N	P=0.497N
POLY 6	P=0.314N	P=0.490N	P=0.498N	P=0.494N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	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 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	1/44.42
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	618
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.200	(e)	(e)	P=0.506
POLY 1.5	P=0.199	(e)	(e)	P=0.504
POLY 6	P=0.202	(e)	(e)	P=0.509
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.134	(e)	(e)	P=0.166
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	1/44.42
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	618
HC TUMORS SAME ROUTE	5/300 (2%)			
HC TUMORS ALL ROUTES	30/1300 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.200	(e)	(e)	P=0.506
POLY 1.5	P=0.199	(e)	(e)	P=0.504
POLY 6	P=0.202	(e)	(e)	P=0.509
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.134	(e)	(e)	P=0.166
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	9/50 (18%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	9/43.81	3/45.74	2/43.53	2/44.09
POLY-3 PERCENT (g)	20.5%	6.6%	4.6%	4.5%
TERMINAL (d)	6/31 (19%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	638	631	724	712
HC TUMORS SAME ROUTE	32/300 (11%)			
HC TUMORS ALL ROUTES	65/1300 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.017N*	P=0.049N*	P=0.025N*	P=0.023N*
POLY 1.5	P=0.016N*	P=0.053N	P=0.025N*	P=0.024N*
POLY 6	P=0.017N*	P=0.047N*	P=0.025N*	P=0.023N*
COCH-ARM / FISHERS	P=0.017N*	P=0.061N	P=0.026N*	P=0.026N*
MAX-ISO-POLY-3	P=0.006N**	P=0.027N*	P=0.011N*	P=0.010N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	10/50 (20%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	10/44.19	3/45.74	2/43.53	2/44.09
POLY-3 PERCENT (g)	22.6%	6.6%	4.6%	4.5%
TERMINAL (d)	6/31 (19%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	625	631	724	712
HC TUMORS SAME ROUTE	35/300 (12%)			
HC TUMORS ALL ROUTES	84/1300 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.009N**	P=0.029N*	P=0.014N*	P=0.013N*
POLY 1.5	P=0.008N**	P=0.030N*	P=0.014N*	P=0.013N*
POLY 6	P=0.009N**	P=0.028N*	P=0.015N*	P=0.013N*
COCH-ARM / FISHERS	P=0.009N**	P=0.036N*	P=0.014N*	P=0.014N*
MAX-ISO-POLY-3	P=0.002N**	P=0.015N*	P=0.006N**	P=0.005N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	27/50 (54%)	25/50 (50%)	25/50 (50%)	24/50 (48%)
POLY-3 RATE (b)	27/46.07	25/47.44	25/45.14	24/46.19
POLY-3 PERCENT (g)	58.6%	52.7%	55.4%	52%
TERMINAL (d)	17/31 (55%)	16/31 (52%)	18/30 (60%)	17/34 (50%)
FIRST INCIDENCE	486	575	481	592
HC TUMORS SAME ROUTE	133/300 (44%)			
HC TUMORS ALL ROUTES	674/1300 (52%)			
STATISTICAL TESTS				
POLY 3	P=0.336N	P=0.355N	P=0.460N	P=0.330N
POLY 1.5	P=0.334N	P=0.376N	P=0.442N	P=0.336N
POLY 6	P=0.333N	P=0.344N	P=0.493N	P=0.322N
COCH-ARM / FISHERS	P=0.325N	P=0.421N	P=0.421N	P=0.345N
MAX-ISO-POLY-3	P=0.415N	P=0.283N	P=0.375N	P=0.258N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	27/50 (54%)	25/50 (50%)	25/50 (50%)	24/50 (48%)
POLY-3 RATE (b)	27/46.07	25/47.44	25/45.14	24/46.19
POLY-3 PERCENT (g)	58.6%	52.7%	55.4%	52%
TERMINAL (d)	17/31 (55%)	16/31 (52%)	18/30 (60%)	17/34 (50%)
FIRST INCIDENCE	486	575	481	592
HC TUMORS SAME ROUTE	135/300 (45%)			
HC TUMORS ALL ROUTES	684/1300 (53%)			
STATISTICAL TESTS				
POLY 3	P=0.336N	P=0.355N	P=0.460N	P=0.330N
POLY 1.5	P=0.334N	P=0.376N	P=0.442N	P=0.336N
POLY 6	P=0.333N	P=0.344N	P=0.493N	P=0.322N
COCH-ARM / FISHERS	P=0.325N	P=0.421N	P=0.421N	P=0.345N
MAX-ISO-POLY-3	P=0.415N	P=0.283N	P=0.375N	P=0.258N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	30/50 (60%)	26/50 (52%)	26/50 (52%)	24/50 (48%)
POLY-3 RATE (b)	30/46.65	26/47.75	26/45.17	24/46.19
POLY-3 PERCENT (g)	64.3%	54.5%	57.6%	52%
TERMINAL (d)	18/31 (58%)	16/31 (52%)	18/30 (60%)	17/34 (50%)
FIRST INCIDENCE	486	575	481	592
HC TUMORS SAME ROUTE	155/300 (52%)			
HC TUMORS ALL ROUTES	718/1300 (55%)			
STATISTICAL TESTS				
POLY 3	P=0.174N	P=0.218N	P=0.323N	P=0.155N
POLY 1.5	P=0.167N	P=0.233N	P=0.298N	P=0.154N
POLY 6	P=0.182N	P=0.215N	P=0.373N	P=0.159N
COCH-ARM / FISHERS	P=0.158N	P=0.273N	P=0.273N	P=0.158N
MAX-ISO-POLY-3	P=0.177N	P=0.164N	P=0.252N	P=0.110N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	29/50 (58%)	33/50 (66%)	36/50 (72%)	23/50 (46%)
POLY-3 RATE (b)	29/46.24	33/48.58	36/47.20	23/45.73
POLY-3 PERCENT (g)	62.7%	67.9%	76.3%	50.3%
TERMINAL (d)	18/31 (58%)	20/31 (65%)	22/30 (73%)	15/34 (44%)
FIRST INCIDENCE	536	574	544	618
HC TUMORS SAME ROUTE	195/298 (65%)			
HC TUMORS ALL ROUTES	715/1294 (55%)			
STATISTICAL TESTS				
POLY 3	P=0.101N	P=0.373	P=0.108	P=0.156N
POLY 1.5	P=0.093N	P=0.336	P=0.102	P=0.154N
POLY 6	P=0.111N	P=0.403	P=0.120	P=0.161N
COCH-ARM / FISHERS	P=0.089N	P=0.268	P=0.104	P=0.158N
MAX-ISO-POLY-3	P=0.043N*	P=0.298	P=0.073	P=0.111N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/43.47	1/45.58	1/43.83	1/44.82
POLY-3 PERCENT (g)	4.6%	2.2%	2.3%	2.2%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	638	578	638	429
HC TUMORS SAME ROUTE	1/298 (0%)			
HC TUMORS ALL ROUTES	12/1294 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.410N	P=0.483N	P=0.497N	P=0.489N
POLY 1.5	P=0.410N	P=0.489N	P=0.498N	P=0.493N
POLY 6	P=0.409N	P=0.481N	P=0.497N	P=0.487N
COCH-ARM / FISHERS	P=0.409N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.413N	P=0.271N	P=0.279N	P=0.274N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	31/50 (62%)	34/50 (68%)	37/50 (74%)	24/50 (48%)
POLY-3 RATE (b)	31/46.57	34/49.08	37/47.54	24/46.53
POLY-3 PERCENT (g)	66.6%	69.3%	77.8%	51.6%
TERMINAL (d)	19/31 (61%)	20/31 (65%)	22/30 (73%)	15/34 (44%)
FIRST INCIDENCE	536	574	544	429
HC TUMORS SAME ROUTE	196/298 (66%)			
HC TUMORS ALL ROUTES	727/1294 (56%)			
STATISTICAL TESTS				
POLY 3	P=0.062N	P=0.474	P=0.155	P=0.098N
POLY 1.5	P=0.058N	P=0.426	P=0.144	P=0.100N
POLY 6	P=0.070N	P=0.510	P=0.173	P=0.103N
COCH-ARM / FISHERS	P=0.062N	P=0.338	P=0.142	P=0.114N
MAX-ISO-POLY-3	P=0.030N*	P=0.388	P=0.107	P=0.066N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/43.14	1/45.08	0/43.50	1/44.02
POLY-3 PERCENT (g)	2.3%	2.2%	0%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	0/30 (0%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	730 (T)	---	730 (T)
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	23/1300 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.615N	P=0.751N	P=0.498N	P=0.756N
POLY 1.5	P=0.615N	P=0.754N	P=0.499N	P=0.758N
POLY 6	P=0.615N	P=0.750N	P=0.498N	P=0.755N
COCH-ARM / FISHERS	P=0.616N	P=0.753N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.537N	P=0.487N	P=0.158N	P=0.493N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.14	0/45.08	1/43.50	1/44.02
POLY-3 PERCENT (g)	2.3%	0%	2.3%	2.3%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)
HC TUMORS SAME ROUTE	4/300 (1%)			
HC TUMORS ALL ROUTES	24/1300 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.537	P=0.491N	P=0.759N	P=0.756N
POLY 1.5	P=0.537	P=0.494N	P=0.760N	P=0.758N
POLY 6	P=0.538	P=0.490N	P=0.759N	P=0.755N
COCH-ARM / FISHERS	P=0.538	P=0.500N	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.542	P=0.158N	P=0.497N	P=0.493N
HISTCONT SAME RTE	P=0.626	(e)	P=0.482	P=0.486
HISTCONT ALL RTEs	P=0.637	(e)	P=0.598	P=0.602

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/43.14	1/45.08	2/43.50	1/44.02
POLY-3 PERCENT (g)	2.3%	2.2%	4.6%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	2/30 (7%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)
HC TUMORS SAME ROUTE	6/300 (2%)			
HC TUMORS ALL ROUTES	31/1300 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.593	P=0.751N	P=0.503	P=0.756N
POLY 1.5	P=0.592	P=0.754N	P=0.502	P=0.758N
POLY 6	P=0.596	P=0.750N	P=0.503	P=0.755N
COCH-ARM / FISHERS	P=0.591	P=0.753N	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.588	P=0.487N	P=0.283	P=0.493N
HISTCONT SAME RTE	P=0.613	P=1.000	P=0.254	P=1.000
HISTCONT ALL RTEs	P=0.692	P=1.000	P=0.351	P=1.000

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	1/45.08	1/43.50	0/44.02
POLY-3 PERCENT (g)	0%	2.2%	2.3%	0%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	1/30 (3%)	0/34 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---
HC TUMORS SAME ROUTE	2/300 (1%)			
HC TUMORS ALL ROUTES	8/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.588N	P=0.509	P=0.502	(e)
POLY 1.5	P=0.590N	P=0.506	P=0.501	(e)
POLY 6	P=0.586N	P=0.510	P=0.502	(e)
COCH-ARM / FISHERS	P=0.594N	P=0.500	P=0.500	(e)
MAX-ISO-POLY-3	P=0.413N	P=0.169	P=0.161	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME ROUTE	1/300 (0%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.313N	P=0.491N	P=0.498N	P=0.496N
POLY 1.5	P=0.311N	P=0.494N	P=0.499N	P=0.497N
POLY 6	P=0.314N	P=0.490N	P=0.498N	P=0.494N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	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 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	2/1300 (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)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME ROUTE	2/300 (1%)			
HC TUMORS ALL ROUTES	15/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.313N	P=0.491N	P=0.498N	P=0.496N
POLY 1.5	P=0.311N	P=0.494N	P=0.499N	P=0.497N
POLY 6	P=0.314N	P=0.490N	P=0.498N	P=0.494N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	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 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	6/50 (12%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	4/43.14	6/45.39	3/44.07	6/45.05
POLY-3 PERCENT (g)	9.3%	13.2%	6.8%	13.3%
TERMINAL (d)	4/31 (13%)	5/31 (16%)	2/30 (7%)	2/34 (6%)
FIRST INCIDENCE	730 (T)	645	553	647
HC TUMORS SAME ROUTE	17/300 (6%)			
HC TUMORS ALL ROUTES	137/1288 (11%)			
STATISTICAL TESTS				
POLY 3	P=0.409	P=0.402	P=0.488N	P=0.397
POLY 1.5	P=0.400	P=0.391	P=0.493N	P=0.385
POLY 6	P=0.425	P=0.408	P=0.484N	P=0.414
COCH-ARM / FISHERS	P=0.388	P=0.370	P=0.500N	P=0.370
MAX-ISO-POLY-3	P=0.443	P=0.285	P=0.338N	P=0.280
HISTCONT SAME RTE	P=0.053	P=0.028*	P=0.588	P=0.029*
HISTCONT ALL RTEs	P=0.515	P=0.356	P=1.000	P=0.348

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Thyroid Gland: C-Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	1/45.40	0/43.50	1/44.09
POLY-3 PERCENT (g)	0%	2.2%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	640	---	712
HC TUMORS SAME ROUTE	5/300 (2%)			
HC TUMORS ALL ROUTES	17/1288 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.412	P=0.510	(e)	P=0.504
POLY 1.5	P=0.410	P=0.507	(e)	P=0.503
POLY 6	P=0.415	P=0.513	(e)	P=0.506
COCH-ARM / FISHERS	P=0.406	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.264	P=0.171	(e)	P=0.164
HISTCONT SAME RTE	P=0.317	P=0.216	(e)	P=0.205
HISTCONT ALL RTEs	P=0.305	P=0.205	(e)	P=0.195

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	7/50 (14%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	4/43.14	7/45.71	3/44.07	7/45.13
POLY-3 PERCENT (g)	9.3%	15.3%	6.8%	15.5%
TERMINAL (d)	4/31 (13%)	5/31 (16%)	2/30 (7%)	2/34 (6%)
FIRST INCIDENCE	730 (T)	640	553	647
HC TUMORS SAME ROUTE	22/300 (7%)			
HC TUMORS ALL ROUTES	153/1288 (12%)			
STATISTICAL TESTS				
POLY 3	P=0.327	P=0.294	P=0.488N	P=0.287
POLY 1.5	P=0.318	P=0.283	P=0.493N	P=0.276
POLY 6	P=0.342	P=0.304	P=0.484N	P=0.304
COCH-ARM / FISHERS	P=0.307	P=0.262	P=0.500N	P=0.262
MAX-ISO-POLY-3	P=0.303	P=0.201	P=0.338N	P=0.193
HISTCONT SAME RTE	P=0.116	P=0.043*	P=1.000	P=0.043*
HISTCONT ALL RTEs	P=0.351	P=0.244	P=1.000	P=0.232

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	11/50 (22%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	8/43.79	11/45.99	8/44.40	10/44.49
POLY-3 PERCENT (g)	18.3%	23.9%	18%	22.5%
TERMINAL (d)	5/31 (16%)	7/31 (23%)	6/30 (20%)	8/34 (24%)
FIRST INCIDENCE	646	607	481	592
HC TUMORS SAME ROUTE	57/300 (19%)			
HC TUMORS ALL ROUTES	233/1300 (18%)			
STATISTICAL TESTS				
POLY 3	P=0.443	P=0.346	P=0.597N	P=0.411
POLY 1.5	P=0.442	P=0.333	P=0.600N	P=0.407
POLY 6	P=0.441	P=0.352	P=0.599N	P=0.411
COCH-ARM / FISHERS	P=0.440	P=0.306	P=0.607N	P=0.398
MAX-ISO-POLY-3	P=0.503	P=0.262	P=0.487N	P=0.313
HISTCONT SAME RTE	P=0.605	P=0.338	P=1.000	P=0.407
HISTCONT ALL RTEs	P=0.589	P=0.325	P=1.000	P=0.393

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	12/50 (24%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	8/43.79	12/45.99	8/44.40	10/44.49
POLY-3 PERCENT (g)	18.3%	26.1%	18%	22.5%
TERMINAL (d)	5/31 (16%)	8/31 (26%)	6/30 (20%)	8/34 (24%)
FIRST INCIDENCE	646	607	481	592
HC TUMORS SAME ROUTE	61/300 (20%)			
HC TUMORS ALL ROUTES	242/1300 (19%)			
STATISTICAL TESTS				
POLY 3	P=0.482	P=0.262	P=0.597N	P=0.411
POLY 1.5	P=0.481	P=0.251	P=0.600N	P=0.407
POLY 6	P=0.480	P=0.267	P=0.599N	P=0.411
COCH-ARM / FISHERS	P=0.477	P=0.227	P=0.607N	P=0.398
MAX-ISO-POLY-3	P=0.505	P=0.192	P=0.487N	P=0.313
HISTCONT SAME RTE	P=0.607	P=0.244	P=1.000	P=0.407
HISTCONT ALL RTEs	P=0.591	P=0.232	P=1.000	P=0.393

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Zymbal's Gland				
Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	0/1300 (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)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Zymbal's Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	2/45.24	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	688	---	---
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.392N	P=0.248	(e)	(e)
POLY 1.5	P=0.396N	P=0.244	(e)	(e)
POLY 6	P=0.390N	P=0.250	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.261N	P=0.086	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
Zymbal's Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	2/45.24	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	688	---	---
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.392N	P=0.248	(e)	(e)
POLY 1.5	P=0.396N	P=0.244	(e)	(e)
POLY 6	P=0.390N	P=0.250	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.261N	P=0.086	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	1/44.50
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	586
HC TUMORS SAME ROUTE	4/300 (1%)			
HC TUMORS ALL ROUTES	11/1300 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.200	(e)	(e)	P=0.506
POLY 1.5	P=0.200	(e)	(e)	P=0.504
POLY 6	P=0.202	(e)	(e)	P=0.509
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.134	(e)	(e)	P=0.166
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	15/50 (30%)	10/50 (20%)	15/50 (30%)	11/50 (22%)
POLY-3 RATE (b)	15/44.88	10/45.83	15/45.04	11/45.57
POLY-3 PERCENT (g)	33.4%	21.8%	33.3%	24.1%
TERMINAL (d)	9/31 (29%)	6/31 (19%)	9/30 (30%)	7/34 (21%)
FIRST INCIDENCE	361	646	553	449
HC TUMORS SAME ROUTE	97/300 (32%)			
HC TUMORS ALL ROUTES	273/1300 (21%)			
STATISTICAL TESTS				
POLY 3	P=0.309N	P=0.156N	P=0.584N	P=0.227N
POLY 1.5	P=0.316N	P=0.164N	P=0.586	P=0.236N
POLY 6	P=0.300N	P=0.153N	P=0.576N	P=0.219N
COCH-ARM / FISHERS	P=0.322N	P=0.178N	P=0.586N	P=0.247N
MAX-ISO-POLY-3	P=0.264N	P=0.108N	P=0.494N	P=0.165N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/300 (0%)			
HC TUMORS ALL ROUTES	5/1300 (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)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	4/1300 (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)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	43/50 (86%)	45/50 (90%)	46/50 (92%)	40/50 (80%)
POLY-3 RATE (b)	43/48.29	45/49.09	46/48.74	40/46.96
POLY-3 PERCENT (g)	89.1%	91.7%	94.4%	85.2%
TERMINAL (d)	28/31 (90%)	29/31 (94%)	28/30 (93%)	29/34 (85%)
FIRST INCIDENCE	486	574	481	592
HC TUMORS SAME ROUTE	258/300 (86%)			
HC TUMORS ALL ROUTES	1133/1300 (87%)			
STATISTICAL TESTS				
POLY 3	P=0.283N	P=0.461	P=0.270	P=0.392N
POLY 1.5	P=0.233N	P=0.439	P=0.254	P=0.346N
POLY 6	P=0.332N	P=0.468	P=0.302	P=0.443N
COCH-ARM / FISHERS	P=0.177N	P=0.380	P=0.262	P=0.298N
MAX-ISO-POLY-3	P=0.214N	P=0.324	P=0.160	P=0.278N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	24/50 (48%)	18/50 (36%)	22/50 (44%)	16/50 (32%)
POLY-3 RATE (b)	24/45.56	18/47.49	22/45.53	16/47.71
POLY-3 PERCENT (g)	52.7%	37.9%	48.3%	33.5%
TERMINAL (d)	15/31 (48%)	9/31 (29%)	12/30 (40%)	8/34 (24%)
FIRST INCIDENCE	361	578	553	429
HC TUMORS SAME ROUTE	148/300 (49%)			
HC TUMORS ALL ROUTES	467/1300 (36%)			
STATISTICAL TESTS				
POLY 3	P=0.072N	P=0.107N	P=0.417N	P=0.045N*
POLY 1.5	P=0.083N	P=0.124N	P=0.423N	P=0.055N
POLY 6	P=0.063N	P=0.092N	P=0.409N	P=0.037N*
COCH-ARM / FISHERS	P=0.103N	P=0.156N	P=0.421N	P=0.076N
MAX-ISO-POLY-3	P=0.049N*	P=0.077N	P=0.336N	P=0.031N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	48/50 (96%)	48/50 (96%)	48/50 (96%)	46/50 (92%)
POLY-3 RATE (b)	48/50.00	48/50.00	48/49.08	46/49.48
POLY-3 PERCENT (g)	96%	96%	97.8%	93%
TERMINAL (d)	29/31 (94%)	29/31 (94%)	29/30 (97%)	31/34 (91%)
FIRST INCIDENCE	361	574	481	429
HC TUMORS SAME ROUTE	284/300 (95%)			
HC TUMORS ALL ROUTES	1223/1300 (94%)			
STATISTICAL TESTS				
POLY 3	P=0.303N	P=0.693	P=0.524	P=0.411N
POLY 1.5	P=0.266N	P=0.693	P=0.568	P=0.378N
POLY 6	P=0.350N	P=0.693	P=0.508	P=0.451N
COCH-ARM / FISHERS	P=0.221N	P=0.691N	P=0.691N	P=0.339N
MAX-ISO-POLY-3	P=0.298N	P=1.000	P=0.303	P=0.252N
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 ($P \leq 0.05$).
- ** 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 ***